

Andhra Pradesh State Council of Higher Education

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :	AP ICET 2020 10th Sep 2020 Shift 2
Subject Name :	AP ICET 2020
Creation Date :	2020-09-10 18:54:22
Duration :	150
Total Marks :	200
Display Marks:	No
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console? :	Yes

AP ICET 2020

Group Number :	1
Group Id :	4969012
Group Maximum Duration :	0
Group Minimum Duration :	150
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	200
Is this Group for Examiner? :	No
Revisit allowed for group Instructions? :	Yes
Maximum Instruction Time :	0
Minimum Instruction Time :	0

Analytics Ability

Section Id :	4969014
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	36
Number of Questions to be attempted :	36
Section Marks :	75
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1

Question Id : 496901210 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (1 to 20)

Question Label : Comprehension

Data Sufficiency దత్తాంశ పర్యాప్తత

Note: In the following 20 questions each question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

- Mark choice (1) if the statement **I** alone is sufficient to answer the question.
- Mark choice (2) if the statement **II** alone is sufficient to answer the question.
- Mark choice (3) if both the statements **I** and **II** are sufficient to answer the question but neither statement alone is sufficient.
- Mark (4) if both the statements **I** and **II** together are not sufficient to answer the question and additional data is required.

సూచన: క్రింద ఇచ్చిన 20 ప్రశ్నలలో ప్రతి ప్రశ్నలోను ఒక ప్రశ్న , దాని కింద I, II అని గుర్తులు గల రెండు ప్రవచనాలు దత్తాంశంగా ఇవ్వబడ్డాయి. ఇచ్చిన దత్తాంశం ఉపయోగించి , ఇచ్చిన ప్రవచనాలు ప్రశ్నకు సమాధానాన్ని ఇచ్చేందుకు పర్యప్తాలు అవుతాయా లేదా అని మీరు నిర్ధారించాలి. ఈ నిర్ధారణకు క్రింది మార్గదర్శక సూత్రాలు ఉపయోగించి (1) నుండి (4) వరకు సరి అయిన జవాబును ఎంపిక చెయ్యండి

- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం I మాత్రమే పర్యాప్తమయితే మీ జవాబు (1) గా గుర్తించండి .
- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం II మాత్రమే పర్యాప్తమయితే మీ జవాబు (2) గా గుర్తించండి.
- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనాలు I, II కలిసి పర్యాప్తమయ్యి అందులో ఏ ఒక్కటి కూడా పర్యాప్తం కాకపోతే మీ జవాబు (3) గా గుర్తించండి.
- ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనాలు I, II కలిసి కూడా పర్యాప్తం కాక అదనపు దత్తాంశం అవసరం అయితే మీ జవాబు (4) గా గుర్తించండి.

Sub questions

Question Number : 1 Question Id : 496901211 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the perimeter of the rectangle?

దీర్ఘ చతురస్రం చుట్టుకొలత ఎంత?

I. The area of the rectangle is 168 cm^2

ఆ దీర్ఘ చతురస్రం వైశాల్యం 168 చ.సం.మీ

II. Length of a diagonal is 25 cm.

ఒక కర్ణం పొడవు 25 సం.మీ

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 2 Question Id : 496901212 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the remainder when the polynomial $P(x)$ is divided by $x-5$?

ఒక బహుపది $p(x)$ ను $x-5$ తో భాగించినప్పుడు వచ్చే శేషము ఎంత?

I. The remainder is $x+3$ when $P(x)$ is divided by $x^2-3x-10$

$p(x)$ ను $x^2 - 3x - 10$ తో భాగించినప్పుడు వచ్చే శేషము $x+3$

II. The remainder is 1 when $P(x)$ is divided by $x+2$

$p(x)$ ను $x+2$ తో భాగించినప్పుడు వచ్చే శేషము 1

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 3 Question Id : 496901213 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the cost price of each pen?

ఒక్కొక్క కలం యొక్క కొన్న వల ఎంత?

I. If 4 pens are sold for Rs. 244, then the percentage of profit is 22

4 కలములను రూ 244 కు అమ్మగా వచ్చిన లాభ శాతం 22

II. 4 pens are sold at a profit of 18%

4 కలములను 18% లాభంతో అమ్మారు.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 4 Question Id : 496901214 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the number of elements in the set $A \cup B$?

$A \cup B$ లో ఉండే మూలకాల సంఖ్య ఎంత ?

I. Number of elements in $A \cap B = 5$

$A \cap B$ లోని మూలకాల సంఖ్య 5

II. Number of elements of B which are not in A is 17

B లో ఉండి A లో లేని మూలకాల సంఖ్య 17

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 5 Question Id : 496901215 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the number of sides of a regular polygon?

ఒక క్రమ బహుభుజి యొక్క భుజములు ఎన్ని ?

I. The sum of the angles subtended by the sides of the polygon at the centre is 2π radians

బహుభుజి యొక్క భుజములు కేంద్రము వద్ద ఏర్పరిచే కోణముల మొత్తం 2π రేడియన్లు

II. The number of diagonals of the polygon is 35

బహుభుజి యొక్క కర్ణముల సంఖ్య 35

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 6 Question Id : 496901216 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If A, B, C are the angles and a, b, c are lengths of the sides opposites to them respectively, then, is the triangle ABC equilateral?

A, B, C లు కోణాలు అయ్యి వాటికి ఎదురుగా ఉండే భుజముల పొడవులు వరుస క్రమంగా a,b,c, లు అయితే అప్పుడు త్రిభుజం ABC సమబాహు త్రిభుజమా?

I. $\frac{a}{\cos A} = \frac{b}{\cos B} = \frac{c}{\cos C}$

II. $A+B+C = \pi$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 7 Question Id : 496901217 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the rate of compound interest?

చక్ర వడ్డీ రేటు ఎంత?

I. Interest for the first two years is Rs. 3801

మొదటి రెండు సంవత్సరాల వడ్డీ రూ. 3801

II. Interest for the second year alone is Rs. 1991

రెండవ సంవత్సరం ఒక్కదానికి వడ్డీ రూ. 1991

Options :

1. ✗ 1

2. ✗ 2

3. ✓ 3

4. ✗ 4

Question Number : 8 Question Id : 496901218 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the area of the path around a rectangular field?

దీర్ఘ చతురస్రాకారపు పొలం చుట్టూ ఉన్న బాట వైశాల్యం ఎంత?

I. Rectangular field has area 190 m^2

దీర్ఘ చతురస్రాకారపు పొలం వైశాల్యం 190 చ.సం.మీ

II. The width of the path is 2m

బాట వెడల్పు 2 మీ

Options :

1. ✗ 1

2. ✗ 2

3. ✖ 3

4. ✔ 4

Question Number : 9 Question Id : 496901219 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

How is A related to X?

X తో A సంబంధమేమిటి ?

I. X is the daughter of Y

Y యొక్క కూతురు X

II. Y is the daughter of A

A యొక్క కూతురు Y

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 10 Question Id : 496901220 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the first term of the Geometric Progression?

గుణ శ్రేణి యొక్క మొదటి పదం ఏది?

I. Product of 3rd and 7th terms is 6400

3 మరియు 7 వ పదాల లబ్ధం 6400

II. 5th term is 80

5 వ పదం 80

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 11 Question Id : 496901221 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Is $(a^3 + b^3)^{\frac{1}{3}}$ an integer?

$(a^3 + b^3)^{\frac{1}{3}}$ పూర్ణాంకమా?

I. a and b are positive integers.

a, b లు ధన పూర్ణంకాలు

II. $(a^3 + b^3)$ is equal to the volume of a box whose dimensions are 12 x 18 x 125

12 x 18 x 125 కొలతలు గల పెట్టె యొక్క ఘన పరిమాణం $(a^3 + b^3)$

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 12 Question Id : 496901222 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the cost price of the pen?

కలం యొక్క కొన్న వెల ఎంత?

I. The selling price of the pen is Rs. 50

కలం యొక్క అమ్మిన వెల రూ 50

II. The profit is 25%

లాభం 25%

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 13 Question Id : 496901223 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the value of $\cos^4 \theta + \sec^4 \theta$?

$\cos^4 \theta + \sec^4 \theta$ విలువ ఎంత ?

I. $\sec^2 \theta - \tan^2 \theta = 1$

II. $\cos \theta + \sec \theta = 2$

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 14 Question Id : 496901224 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the height of the vertical pole AB?

నిటారుగా ఉండే కర్ర AB పొడవు ఎంత?

I. Seen from a point C on the ground, $\angle ACB = 60^\circ$

భూమి మీద బిందువు C నుండి చూస్తే $\angle ACB = 60^\circ$

II. $AC = 60\text{m}$ (మీ)

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 15 Question Id : 496901225 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Is $x > y$?

$x > y$ అవుతుందా?

I. $y^2 - 6y + 12 = 2y - 4$

II. $x^2 - 4x + 4 = 0$

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 16 Question Id : 496901226 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many grand children does A have?

A కు ఎంత మంది మనుమలు/మనుమరాళ్ళు ఉన్నారు ?

I. A has one son and two daughters.

A కు ఒక కుమారుడు, ఇద్దరు కుమార్తెలు ఉన్నారు.

II. The son of A has 2 daughters and each daughter of A has 2 sons.

A యొక్క కుమారుడికి ఇద్దరు కుమార్తెలు, A యొక్క ఒక్కొక్క కుమార్తెకు ఇద్దరు కుమారులు ఉన్నారు

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 17 Question Id : 496901227 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the median of the frequency distribution?

పానః పున్య విభాజనము యొక్క మధ్య గతిము ఎంత?

I. The Mean of the distribution is 52.

విభాజనము యొక్క మధ్యమము 52

II. The Mode of the distribution is 55.

విభాజనము యొక్క బాహుళకము 55

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 18 Question Id : 496901228 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the probability of drawing a white ball at random from a bag?

ఒక సంచీ నుండి తెలుపు బంతిని యాదృచ్ఛికముగా తీసుకొనే సంభావ్యత ఎంత?

I. The bag has a total of 15 balls.

సంచీలో 15 బంతులు ఉన్నాయి

II. The bag contains white balls and black balls.

ఆ సంచీలో తెలుపు బంతులు, నలుపు బంతులు ఉన్నాయి.

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 19 Question Id : 496901229 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

How much of canvas is required to erect a conical tent?

శంఖు ఆకారం గుడారాన్ని నిర్మించడానికి ఎంత గుడ్డ కావాలి?

I. The diameter of the base of the tent is 10 meters.

గుడారపు భూమి వ్యాసము 10 మీటర్లు

II. The cost of canvas is Rs.100 per sq. meter.

గుడ్డ ఖరీదు రూ 100/చ.మీ

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 20 Question Id : 496901230 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the fifth term in a sequence of consecutive even integers?

వరుస సరి పూర్ణంకాలు ఒక శ్రేణిలో 5 వ పదం ఏమిటి?

I. The sum of the first two numbers in the sequence is 34.

అనుక్రమంలో మొదటి రెండు సంఖ్యల మొత్తం 34

II. The difference between any two consecutive numbers is 2.

పక్కపక్కన ఉండే రెండు సంఖ్యల భేదం 2

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number :

2

Sub-Section Id :

49690115

Question Shuffling Allowed :

Yes

Question Id : 496901231 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (21 to 30)

Question Label : Comprehension

Problem Solving సమస్య సాధన

Sequences and Series అనుక్రమాలు, శ్రేణులు

Note: In each of the Following 10 questions a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

సూచన: క్రింద ఇచ్చిన 10 ప్రశ్నలలో ప్రతి ప్రశ్నలోను ఇచ్చిన సంఖ్యలు గాని అక్షరాలు కాని ఒక క్రమబద్ధమైన నియమాన్ని పాటిస్తున్నాయి. ప్రతి ప్రశ్నలోని ఖాళీని ఇచ్చిన నాలుగు ఐచ్ఛికాల నుండి సరి అయిన జవాబును ఎన్నుకుని అనుక్రమ నియమానికి భంగం కలుగకుండా పూరించాలి.

Sub questions

Question Number : 21 Question Id : 496901232 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

7: 336 :: 6 : _____

Options :

1. ✖ 284

2. ✖ 248

3. ✔ 210

4. ✖ 176

Question Number : 22 Question Id : 496901233 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

2C4 : 6G8 :: _____ : 14O16

Options :

1. ✖ 9J11

2. ✔ 10K12

3. ✖ 11L13

4. ✖ 12M14

Question Number : 23 Question Id : 496901234 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

A6E : _____ :: I24O : 036U

Options :

1. ✖ E8I

2. ✖ E10I

3. ✖ E12I

4. ✔ E14I

Question Number : 24 Question Id : 496901235 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

6: 35 :: _____ : 323

Options :

1. ✖ 83

2. ✖ 137

3. ✔ 143

4. ✖ 247

Question Number : 25 Question Id : 496901236 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

5: 120 :: 7 : _____

Options :

1. ✖ 165

2. ✖ 1440

3. ✖ 2520

4. ✔ 5040

Question Number : 26 Question Id : 496901237 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

March : 27 :: April : _____

Options :

1. ✔ 64

2. ✖ 125

3. ✖ 121

4. ✖ 164

Question Number : 27 Question Id : 496901238 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

PINK : KNIP :: _____ : _____

Options :

1. ✖ READ : DEAR

2. ✔ READ : DAER

3. ✖ DARA : DRAE

4. ✖ DEAR : READ

Question Number : 28 Question Id : 496901239 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

441 : 961 :: _____ : 31

Options :

1. ✖ 51

2. ✖ 41

3. ✔ 21

4. ✖ 11

Question Number : 29 Question Id : 496901240 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

$(X^2 - 8X + 15) : (3, 5) :: \text{_____} : (8, 9)$

Options :

1. ✖ $X^2 - 9X + 18$

2. ✖ $X^2 - 11X + 36$

3. ✖ $X^2 - 15X + 60$

4. ✔ $X^2 - 17X + 72$

Question Number : 30 Question Id : 496901241 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} : \begin{bmatrix} 7 & 10 \\ 15 & 22 \end{bmatrix} :: \begin{bmatrix} -1 & 2 \\ 3 & -4 \end{bmatrix} : \text{_____}$

Options :

1. ✖ $\begin{bmatrix} -7 & 10 \\ -15 & -22 \end{bmatrix}$

2. ✖ $\begin{bmatrix} 7 & -10 \\ 15 & -22 \end{bmatrix}$

3. ✖ $\begin{bmatrix} -7 & -10 \\ -15 & -22 \end{bmatrix}$

4. ✔ $\begin{bmatrix} 7 & -10 \\ -15 & 22 \end{bmatrix}$

Sub-Section Number :

3

Sub-Section Id :

49690116

Question Shuffling Allowed :

Yes

Question Number : 31 Question Id : 496901242 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the Following questions pick the odd thing out.

క్రింద ఇచ్చిన ప్రశ్నలలో సరి పోనిది గుర్తించుము

Options :

1. ✖ 157

2. ✖ 257

3. ✔ 357

4. ✖ 457

Question Number : 32 Question Id : 496901243 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the Following questions pick the odd thing out.

క్రింద ఇచ్చిన ప్రశ్నలలో సరి పోనిది గుర్తించుము

Options :

1. ✖ BAIN

2. ✖ MAIN

3. ✖ PAIN

4. ✔ RAIN

Question Number : 33 Question Id : 496901244 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the Following questions pick the odd thing out.

క్రింద ఇచ్చిన ప్రశ్నలలో సరి పోనిది గుర్తించుము

Options :

1. ✖ 1441

2. ✖ 1661

3. ✔ 1771

4. ✖ 1991

Question Number : 34 Question Id : 496901245 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the Following questions pick the odd thing out.

క్రింద ఇచ్చిన ప్రశ్నలలో సరి పోనిది గుర్తించుము

Options :

1. ✖ (2, 3, 13)

2. ✖ (3, 4, 25)

3. ✖ (4, 5, 41)

4. ✔ (5, 6, 71)

Question Number : 35 Question Id : 496901246 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the Following questions pick the odd thing out.

క్రింద ఇచ్చిన ప్రశ్నలలో సరి పోనిది గుర్తించుము

Options :

1. ✖ VIOLIN

2. ✖ VEENA

3. ✖ SITAR

4. ✔ FLUTE

Question Number : 36 Question Id : 496901247 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

8, 12, 20, 28, 44, 52, _____

Options :

1. ✖ 56

2. ✖ 60

3. ✖ 64

4. ✔ 68

Question Number : 37 Question Id : 496901248 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

26, 50, 122, 170, _____

Options :

1. ✖ 289

2. ✖ 196

3. ✖ 197

4. ✔ 290

Question Number : 38 Question Id : 496901249 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

13, 34, 74, 170, 290, _____

Options :

1. ✖ 455

2. ✔ 458

3. ✖ 394

4. ✖ 380

Question Number : 39 Question Id : 496901250 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

12C, 23E, 34G, 45I, 56K, _____

Options :

1. ✖ 67L

2. ✔ 67M

3. ✖ 67N

4. ✖ 67K

Question Number : 40 Question Id : 496901251 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$\frac{5}{3}, \frac{13}{5}, \frac{25}{7}, \frac{41}{9}, \underline{\hspace{2cm}}$

Options :

1. ✖ $\frac{53}{11}$

2. ✖ $\frac{57}{11}$

3. ✔ $\frac{61}{11}$

4. ✖ $\frac{67}{11}$

Question Number : 41 Question Id : 496901252 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$$\frac{1}{2}, \frac{8}{5}, \frac{27}{10}, \frac{64}{17}, \frac{125}{26}, \frac{216}{37}, \underline{\hspace{2cm}}$$

Options :

1. ✖ $\frac{343}{48}$

2. ✔ $\frac{343}{50}$

3. ✖ $\frac{343}{42}$

4. ✖ $\frac{343}{45}$

Question Number : 42 Question Id : 496901253 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$$33\frac{1}{3}, 37\frac{1}{2}, 42\frac{6}{7}, 50, \underline{\hspace{2cm}}$$

Options :

1. ✖ $54\frac{1}{9}$

2. ✖ 55

3. ✔ 60

4. ✖ $61\frac{1}{8}$

Question Number : 43 Question Id : 496901254 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

2, -1, 5, -7, 17, -31, 65, _____

Options :

1. ✖ 96
2. ✖ 107
3. ✖ -108
4. ✔ -127

Question Number : 44 Question Id : 496901255 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.
_____, FEVU, HGTS, JIRQ, LKPO

Options :

1. ✔ DCXW
2. ✖ EDYX
3. ✖ EFZA
4. ✖ DEAB

Question Number : 45 Question Id : 496901256 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Note: The following questions follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

గమనిక: క్రింద ఇచ్చిన ప్రశ్నలు ఒక ఖచ్చితమయిన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.
F9U, I16R, L25O, O36L, _____

Options :

1. ✖ Q49J
2. ✔ R49I
3. ✖ S49M

4. ✖ P49N

Sub-Section Number :

4

Sub-Section Id :

49690117

Question Shuffling Allowed :

Yes

Question Id : 496901257 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 48)

Question Label : Comprehension

Data Analysis

దత్తాంశ విశ్లేషణ

Note

The following table gives the sales of toys (in thousands) of types A, B, C, D, E by a company in 5 years from 2014 to 2018. Based on this information given in the following table answer the questions

సూచన

ఒక సంస్థ 5 రకముల A, B, C, D, E ల ఆట వస్తువులను 5 సంవత్సరాలు 2014 నుండి 2018 వరకు తయారు చేసింది, వీటి అమ్మకాలను (వేలల్లో) ఈ క్రింది పట్టికలో ఇవ్వడం జరిగింది. వీటి ఆధారంగా ఇచ్చిన ప్రశ్నలకు సమాధానం ఇవ్వండి.

Type (రకం) → ↓year (సంవత్సరం)	A	B	C	D	E
2014	210	160	88	100	75
2015	170	190	110	115	80
2016	200	185	102	120	95
2017	215	170	130	135	125
2018	230	195	140	145	90

Sub questions

Question Number : 46 Question Id : 496901258 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The year in which toy of type 'C' registered highest growth in sales over the previous years.

C రకము ఆట వస్తువు అమ్మకాలు ముందు సంవత్సరాలతో పోల్చితే అత్యధిక పెరుగుదల గల సంవత్సరం

Options :

1. ✖ 2015

2. ✖ 2016

3. ✓ 2017

4. ✗ 2018

Question Number : 47 Question Id : 496901259 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The type of toy that registered highest percent of sales in 2017 over its previous year is

2017 లో అంతకు ముందు సంవత్సరంతో పోల్చితే అత్యధిక పెరుగుదల శాతం కనపరిచిన ఆట వస్తువు రకం

Options :

1. ✗ A

2. ✗ C

3. ✗ D

4. ✓ E

Question Number : 48 Question Id : 496901260 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The percentage of increase in sales of toys of type B in the year 2018 in comparison with the year 2014 is

2014 సంవత్సరంతో పోల్చితే 2018 లో B రకమైన ఆట వస్తువుల అమ్మకాల పెరుగుదల శాతం

Options :

1. ✗ 20.375

2. ✓ 21.875

3. ✗ 23.475

4. ✗ 25.125

Sub-Section Number :

5

Sub-Section Id :

49690118

Question Shuffling Allowed :

Yes

Question Id : 496901261 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (49 to 53)

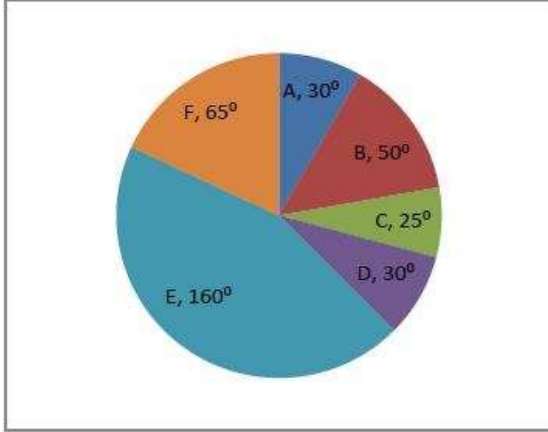
Question Label : Comprehension

Note

The following Pie chart depicts the distribution of Annual expenditure of a company under 6 broad heads. Based on this data answer the questions 49-53

సూచన

ఒక సంస్థ సంవత్సరపు వ్యయాన్ని 6 రకములయిన పద్దులు A, B, C, D, E, F గా విభజించి వాటి వివరాలను ఈ క్రింది పటంలో పొందుపరచి ఉన్నారు. ఈ సమాచారాన్ని ఉపయోగించి క్రింద ఇచ్చిన ప్రశ్నలకు జవాబు ఇవ్వండి



Sub questions

Question Number : 49 Question Id : 496901262 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If the expenditure under the head A is Rs 60 lakhs what is the total annual expenditure of the company? (in lakhs of rupees)?

పద్దు A లో వ్యయం రూ 60 లక్షలు అయితే ఆ సంస్థ వార్షిక వ్యయం ఎంత (లక్షలలో)?

Options :

1. ✖ 650
2. ✔ 720
3. ✖ 900
4. ✖ 1050

Question Number : 50 Question Id : 496901263 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the percentage of the expenditure of the company under the head E in the total annual expenditure of the company?

ఆ సంస్థ వార్షిక వ్యయం లో E పద్దులోని వ్యయం ఎంత శాతం?

Options :

1. ✖ $42\frac{1}{9}\%$

2. ✖ $43\frac{2}{9}\%$

3. ✔ $44\frac{4}{9}\%$

4. ✖ $45\frac{5}{9}\%$

Question Number : 51 Question Id : 496901264 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the ratio of the expenditure under the heads B, C and D put together and that of the heads A and F put together?

B, C, D పద్దులలోని వ్యయం A, F లలోని వ్యయాల నిష్పత్తి ఎంత?

Options :

1. ✖ 15:17

2. ✖ 17:21

3. ✖ 19:21

4. ✔ 21:19

Question Number : 52 Question Id : 496901265 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If the company cut down its annual expenditure by 5% and 20% under the heads E and F respectively the new degrees in the section E and F in the pie chart will be respectively

ఆ సంస్థ E, F పద్దులలో వరుస క్రమంగా 5%, 20% వ్యయాన్ని తగ్గించుకుంటే అప్పుడు E, F ల

కోణ డిగ్రీలు వరుసగా

Options :

1. ✔ $161^0, 55^0$

2. ✖ $150^0, 55^0$

3. ✖ $145^0, 60^0$

4. ✖ $140^0, 65^0$

Question Number : 53 Question Id : 496901266 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the company decides to create an extra head of account G by transferring 10% and 20% of its expenditure under the heads E and F respectively, the sectorial angle in the pie chart for G will be

ఆ సంస్థ మరొక వ్యయ పద్ధు G ను ఏర్పాటు చేసుకుని అందుకు E, F ల నుండి వరుసగా 10%, 20% వ్యయాలను బదిలీ చేసుకుంటే అప్పుడు G యొక్క సెక్టార్ కోణం

Options :

1. ✖ 27°

2. ✔ 29°

3. ✖ 31°

4. ✖ 36°

Sub-Section Number :

6

Sub-Section Id :

49690119

Question Shuffling Allowed :

Yes

Question Id : 496901267 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (54 to 55)

Question Label : Comprehension

Note

In a class of 80 students, each student chooses to play at least one of the games A, B, C. Out of them 45 play game A, 35 play game B, 30 play game C. Also 13 play both A and B, 10 play both B and C and 5 play all the 3 games. Based on this information answer questions

సూచన

80 మంది విద్యార్థులు ఉన్న ఒక తరగతిలో ప్రతి ఒక్కరు A,B,C ఆటలలో ఏదో ఒక ఆట ఆడుతారు. 45 మంది A ను 35 మంది B ను 30 మంది C ను ఆడుతారు. అంతే కాక 13 మంది A , B లు రెండింటిని మరియు 10 మంది B, C లు రెండింటిని ఆడుతారు. 5 మంది మూడింటిని ఆడుతారు. వీటిని ఆధారం గా చేసుకుని క్రింద ఇచ్చిన ప్రశ్నలకు జవాబులు రాయండి

Sub questions

Question Number : 54 Question Id : 496901268 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The number of students who play exactly one game is

ఒక్క ఆటను మాత్రమే ఆడే విద్యార్థుల సంఖ్య ఎంత?

Options :

1. ✖ 85

2. ✖ 75

3. ✖ 65

4. ✔ 55

Question Number : 55 Question Id : 496901269 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The number of students who play games A and C but not B is

A, C లు రెండింటినీ ఆడి, B ను ఆడని విద్యార్థుల సంఖ్య ఎంత?

Options :

1. ✖ 13

2. ✖ 12

3. ✔ 7

4. ✖ 8

Sub-Section Number :

7

Sub-Section Id :

49690120

Question Shuffling Allowed :

Yes

Question Id : 496901270 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

Question Label : Comprehension

Coding and Decoding Problems

కోడింగ్, డీకోడింగ్ సమస్యలు

Note

The 26 letters of English are given ranks 1,2,...,26 in the alphabetical order. Then for $1 \leq r \leq 26$, r^{th} letter is coded as k^{th} letter where $7r + 3 = 26M + k$ where $0 \leq k \leq 25$ and $M \in \mathbb{Z}$. When $k = 0$, k^{th} letter is coded as 'Z'. For example the letter 'E' is coded as 'L' because when $r = 5$ and $7r + 3 = 38$, then $k = 12$ and 12^{th} letter is 'L'. For decoding the reverse process is used. Based on this answer the questions

సూచన

ఇంగ్లీష్ అక్షరమాల లో 26 అక్షరములకు 1,2,...,26 అనే హోదాలను అక్షరమాల క్రమంలో ఇచ్చారు.

$1 \leq r \leq 26$ కు r వ అక్షరాన్ని $7r + 3 = 26M + k$, $0 \leq k \leq 25$ మరియు $M \in \mathbb{Z}$ అయ్యే

విధముగా k వ అక్షరాన్ని కోడ్ చేస్తారు. $k = 0$ అయినప్పుడు k వ అక్షరాన్ని Z గా కోడ్ చేస్తారు.

ఉదాహరణకు 'E' 5 వ అక్షరం, 12వ అక్షరం అయిన 'L' గా కోడ్ చేయబడినది. ఎందుకనగా

$r = 5$ అయితే $7r + 3 = 38$ అయినచో $k = 12$. డీకోడింగ్ కు విలోమ పద్ధతిని ఉపయోగిస్తారు.

వీటిని ఆధారం గా చేసుకుని ప్రశ్నలకు జవాబివ్వండి

Sub questions

Question Number : 56 Question Id : 496901271 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

BAYER is coded as

BAYER కి కోడ్

Options :

1. ✓ QJVLV
2. ✗ QJWKX
3. ✗ PJVKX
4. ✗ PKWLY

Question Number : 57 Question Id : 496901272 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The number of letters that remain unchanged in this code is

ఈ కోడ్ లో మార్పు లేని అక్షరాల సంఖ్య

Options :

1. ✓ 0
2. ✗ 1
3. ✗ 2
4. ✗ 3

Question Number : 58 Question Id : 496901273 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The number of alphabets that are coded to their next letters is

తిరువాతి అక్షరములకు కోడ్ చేయబడిన అక్షరాల సంఖ్య

Options :

1. ✗ 0
2. ✗ 1
3. ✓ 2
4. ✗ 3

Question Number : 59 Question Id : 496901274 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which is coded as 'TIMEX'?

'TIMEX' గా కోడ్ చేయబడినది ఏది?

Options :

1. ✖ MNPLO
2. ✖ TMUCD
3. ✖ MNQKP
4. ✔ ULTDC

Question Number : 60 Question Id : 496901275 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The word 'SPECIAL' is coded as

SPECIAL కు కోడ్

Options :

1. ✔ FKLXNJI
2. ✖ FLKXNIJ
3. ✖ FKLYMJI
4. ✖ FLKYMJI

Sub-Section Number :

8

Sub-Section Id :

49690121

Question Shuffling Allowed :

Yes

Question Number : 61 Question Id : 496901276 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If 'GUNTUR' is coded as 'RUGUNT' and 'NELLORE' is coded as 'ERNELLO', then the code for 'SRIKAKULAM' is

'GUNTUR' ను 'RUGUNT' గాను, 'NELLORE' ను 'ERNELLO' గానూ కోడ్ చేస్తే

'SRIKAKULAM' కు కోడ్

Options :

1. ✖ MASKRILKUA
2. ✖ MASRIKULAR
3. ✖ MASKKRAULI
4. ✔ MASRIKAKUL

Question Number : 62 Question Id : 496901277 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If 'CALCULATOR' is coded as 'ACCLLUTARO', the code for 'COMPUTER' is

'CALCULATOR' ను 'ACCLLUTARO' గా కోడ్ చేస్తే, 'COMPUTER' కు కోడ్

Options :

1. ✖ REUTPMCO
2. ✖ RTPOEUMC
3. ✔ OCPMTURE
4. ✖ OMCPTURE

Question Number : 63 Question Id : 496901278 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If 'DELHI' is coded as '73541' and CALCUTTA is coded as 82589662 then the code for CALICUT is

'DELHI' ను '73541' గాను CALCUTTA ను 82589662 గానూ కోడ్ చేస్తే CALICUT కు కోడ్

Options :

1. ✖ 8529186
2. ✔ 8251896
3. ✖ 8519652
4. ✖ 8129625

Question Number : 64 Question Id : 496901279 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If 'BATING' is coded as 'URKFIX' then the code for 'MASTER' is

'BATING' ను 'URKFIX' గా కోడ్ చేస్తే 'MASTER' కు కోడ్

Options :

1. ✖ WITPEV
2. ✔ XOYQIW
3. ✖ XITQEV

4. ✖ WOVPW

Question Number : 65 Question Id : 496901280 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If 'PRIME' is coded as 'MPUKO' then 'ANGLO' is coded as

PRIME' ను 'MPUKO' గా కోడ్ చేస్తే 'ANGLO' కు కోడ్

Options :

1. ✖ IKDHU

2. ✖ ELDJA

3. ✔ ILDJA

4. ✖ EKDHU

Question Number : 66 Question Id : 496901281 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

How many days are there from 2-1-1988 to 15-1-1989? (both days inclusive)

2-1-1988 నుండి 15-1-1989 వరకు (రెండు రోజులని కలుపుకుని) ఎన్ని రోజులు వచ్చాయి?

Options :

1. ✔ 380

2. ✖ 379

3. ✖ 378

4. ✖ 377

Question Number : 67 Question Id : 496901282 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

How many times the hands of a clock will be at right angles in a day of 24 hours?

ఒక గడియారంలోని రెండు ముల్లులు 24 గంటలు గల ఒక రోజులో ఎన్ని సార్లు లంబ కోణాన్ని

ఏర్పరుస్తాయి?

Options :

1. ✖ 24

2. ✖ 32

3. ✖ 36

4. ✔ 44

Question Number : 68 Question Id : 496901283 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

Five people L, M, N, O, P are arranged in a line according to their heights: M is on the left of N, O is on the right of P, who is on the right of N whereas L is on the left of M. Who is in the middle?

ఐదుగురు వ్యక్తులు L,M,N,O,Pలు వారి ఎత్తులకు అనుగుణంగా ఒక వరుసలో అమరినారు. N కు ఎడమవైపు M, P కు కుడి వైపు O, N కి కుడివైపు P, M కు ఎడమవైపు L ఉన్నారు. మధ్యలో ఎవరు ఉన్నారు?

Options :

1. ✖ L

2. ✖ M

3. ✔ N

4. ✖ P

Question Number : 69 Question Id : 496901284 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

The Blood relationships of three persons are coded as follows:

- (i) + means "is sister of";
- (ii) - means "is father of";

Then in the L+M and M-N, what is the relationship of L to N

ముగ్గురు వ్యక్తుల మధ్య రక్త సంబంధాలు ఈ క్రింది విధంగా కోడ్ చేసారు

- (i) + అనగా అతని లేదా ఆమె యొక్క సోదరి
- (ii) - అనగా అతని లేదా ఆమె యొక్క తండ్రి. అప్పుడు 'L+M మరియు M-N' లో L కు N తో గల సంబంధం ఏమి?

Options :

Maternal Aunt

1. ✖ పిన్ని లేదా పెద్దమ్మ

Maternal Uncle

2. ✖ మేనమామ

Paternal Aunt

3. ✔ మేనత్త

Paternal Uncle

4. ✖ చిన్నాన లేదా పెద్దనాన్న

Question Number : 70 Question Id : 496901285 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

A priest told the devotee that the temple bell is rung at regular intervals of 50 minutes and the last bell was rung 10 minutes ago. The next bell is due to be rung at 6.45 AM. At what time did the priest give that information to the devotee?

50 నిమిషాలకోసారి గుడి గంటలు మోగుతాయి అని భక్తుడికి పూజారి చెప్పారు. 10 నిమిషాల క్రితం గుడి గంటలు మోగాయి. తరువాత గంటలు 6.45 a.m కు మ్రోగాలి. భక్తుడికి ఈ సమాచారం పూజారి ఏ సమయంలో చెప్పారు?

Options :

1. ✖ 6.10 A.M

2. ✔ 6.05 A.M

3. ✖ 6.00 A.M

4. ✖ 5.55 A.M

Question Number : 71 Question Id : 496901286 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

A meeting is scheduled at 11 A.M. Mr. A arrived to the meeting 37 minutes earlier than Mr. B who came 12 minutes late to the meeting. If Mr C arrived 21 minutes after A's arrival, the time at which Mr C came to the meeting is

ఒక సమావేశం 11 A.M కు నిర్ణయింపబడినది. సమావేశానికి 12 నిమిషాలు ఆలస్యంగా B వచ్చాడు, B కంటే 37 నిమిషాలు ముందుగా A వచ్చాడు. A కంటే 21 నిమిషాలు తరువాత C వచ్చాడు. సమావేశానికి C వచ్చిన సమయం.

Options :

1. ✓ 10.56 A.M
2. ✗ 11.02 A.M
3. ✗ 10.47 A.M
4. ✗ 10.50 A.M

Question Number : 72 Question Id : 496901287 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

A train X came to the station 42 minutes later than its scheduled time. But it came 21 minutes before another train Y which came 36 minutes before its scheduled time 11.47 P.M. The scheduled time of arrival of train X at the station is

ఒక రైలు X దాని నిర్ణయింపబడిన సమయం కన్నా 42 నిమిషాలు ఆలస్యంగా స్టేషన్ కు వచ్చింది. కాని అది రైలు Y కంటే 21 నిమిషాలు ముందుగా వచ్చింది. Y నిర్ణయింపబడిన సమయం 11.47 p.m కన్నా 36 నిమిషాలు ముందుగా వచ్చింది. ఆ స్టేషన్కు X రావాల్సిన నిర్ణయింపబడిన సమయం ఎంత?

Options :

1. ✓ 10.08 p.m
2. ✗ 10.13 p.m
3. ✗ 10.21 p.m
4. ✗ 10.56 p.m

Question Number : 73 Question Id : 496901288 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

If +, -, $\times$ and $\div$ represent division, multiplication subtraction and addition respectively, then $42 \div 3 \times 15 - 14 + 6 = ?$

+ , - , $\times$, $\div$ లు వరుసగా భాగాహారాన్ని గుణకారాన్ని, తీసివేతను, కూడికను సూచిస్తే అప్పుడు

$$42 \div 3 \times 15 - 14 + 6 = ?$$

Options :

1. ✖ 202

2. ✖ 70

3. ✔ 10

4. ✖ 105

Question Number : 74 Question Id : 496901289 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

$x * y = x + y + xy$, $x \oplus y = x^2 + y^2$, then $|3 * (4 \oplus 5) - (3 * 4) \oplus 5| = ?$

$x * y = x + y + xy$, $x \oplus y = x^2 + y^2$ అయితే, $|3 * (4 \oplus 5) - (3 * 4) \oplus 5| = ?$

Options :

1. ✖ -108

2. ✔ 219

3. ✖ -219

4. ✖ 108

Question Number : 75 Question Id : 496901290 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

$m \alpha n = \frac{m+n}{2}$, $m \beta n = \frac{mn}{2}$, then $(3\beta 12)\alpha(16\beta 7) = ?$

$m \alpha n = \frac{m+n}{2}$, $m \beta n = \frac{mn}{2}$ అయితే, $(3\beta 12)\alpha(16\beta 7) = ?$

Options :

1. ✖ $\frac{345}{8}$

2. ✖ 74

3. ✖ $\frac{345}{4}$

4. ✔ 37

Mathematical Ability

Section Id :	4969015
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	75
Number of Questions to be attempted :	75
Section Marks :	75
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	49690122
Question Shuffling Allowed :	Yes

Question Number : 76 Question Id : 496901291 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

If $a + b + c = 0$ and $x = y + z$, then

$$\frac{(x-a)^2}{(y+b)(z+c)} - \frac{(y+b)^2}{(x-a)(z+c)} - \frac{(z+c)^2}{(x-a)(y+b)} =$$

$a + b + c = 0 = 0$ మరియు $x = y + z$ అయితే, అప్పుడు

$$\frac{(x-a)^2}{(y+b)(z+c)} - \frac{(y+b)^2}{(x-a)(z+c)} - \frac{(z+c)^2}{(x-a)(y+b)} =$$

Options :

1. ✖ 1

2. ✔ 3

3. ✖ -3

4. ✖ 0

Question Number : 77 Question Id : 496901292 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The value of $\frac{2^n \times 6^{m+1} \times 10^{m-n} \times 15^{m+n-2}}{4^m \times 3^{2m+n} \times 25^{m-1}}$ is

$\frac{2^n \times 6^{m+1} \times 10^{m-n} \times 15^{m+n-2}}{4^m \times 3^{2m+n} \times 25^{m-1}}$ యొక్క విలువ

Options :

1. ✖ $\frac{1}{3}$

2. ✔ $\frac{2}{3}$

3. ✖ $\frac{5}{3}$

4. ✖ $\frac{10}{3}$

Question Number : 78 Question Id : 496901293 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

Two stations P and Q are 378 km apart. A train X leaves P for station Q and at the same time another train Y leaves Q for station P . They start moving towards each other and meet after $4\frac{1}{2}$ hours. If the train X is 26 km/hr faster than the train Y , then the ratio of the speeds of the trains X and Y is

P మరియు Q అనే రెండు ప్రదేశముల మధ్య దూరం 378 కి.మీ. X అనే రైలుబండి P నుండి Q వైపునకు, అదే సమయములో Y అనే మరొక రైలుబండి Q నుండి P వైపునకు బయలుదేరాయి. ఒకదాని వైపునకు మరొకటి వెళ్ళే ఆ రైళ్ళు $4\frac{1}{2}$ గంటల తరవాత కలుసుకున్నాయి. రైలుబండి X , రైలుబండి Y కంటే 26 కి.మీ/గంట ఎక్కువ వేగంతో పోతుంటే, ఆ రైలు బండ్లు X మరియు Y వేగంల నిష్పత్తి

Options :

1. ✖ 53:27

2. ✔ 55:29

3. ✖ 51:31

4. ✖ 49:34

Question Number : 79 Question Id : 496901294 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The cost of 5 apples is equal to the cost of 7 mangoes. If the amounts paid for x apples and y mangoes are in the ratio 14:15, then $3x:4y =$

5 ఆపిల్ పండ్లు ఖరీదు 7 మామిడి పండ్ల ఖరీదునకు సమానం. x ఆపిల్ పండ్లకు మరియు y మామిడి పండ్లకు చెల్పించిన సొమ్ముల నిష్పత్తి 14:15 అయితే, అప్పుడు $3x : 4y =$

Options :

1. ✖ 2:3

2. ✔ 1:2

3. ✖ 3:2

4. ✖ 2:1

Question Number : 80 Question Id : 496901295 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

If $x = \sqrt{8 + 2\sqrt{15}}$, then $\left(x + \frac{2}{x}\right)^2 =$

$x = \sqrt{8 + 2\sqrt{15}}$ అయితే, అప్పుడు $\left(x + \frac{2}{x}\right)^2 =$

Options :

1. ✖ 16

2. ✖ $16\sqrt{5}$

3. ✔ 20

4. ✖ $20\sqrt{5}$

Question Number : 81 Question Id : 496901296 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

If $x = 2 + \sqrt{3}$ and $xy = 1$, then

$$\frac{x}{\sqrt{2} + \sqrt{x}} + \frac{y}{\sqrt{2} - \sqrt{y}} =$$

$x = 2 + \sqrt{3}$ మరియు $xy = 1$ అయితే, అప్పుడు

$$\frac{x}{\sqrt{2} + \sqrt{x}} + \frac{y}{\sqrt{2} - \sqrt{y}} =$$

Options :

1. ✖ 1

2. ✔ $\sqrt{2}$

3. ✖ $\sqrt{3}$

4. ✖ $\frac{1}{\sqrt{2}}$

Question Number : 82 Question Id : 496901297 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

If $19^5 + 21^5$ is divisible by p , then $p =$

$19^5 + 21^5$ అనేది p చేత భాగింపబడితే , అప్పుడు $p =$

Options :

20 but not 40

1. ✖ 20, కాని 40 కాదు

40 but not 100

2. ✖ 40, కాని 100 కాదు

100 but not 200

3. ✖ 100, కాని 200 కాదు

4. ✔ 200

Question Number : 83 Question Id : 496901298 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

$7^{12} - 4^{12}$ is exactly divisible by

$7^{12} - 4^{12}$ అనేది దేని చేత ఖచ్చితంగా భాగింపబడుతుంది

Options :

1. ✖ 28

2. ✖ 32

3. ✔ 33

4. ✖ 35

Question Number : 84 Question Id : 496901299 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The LCM of two numbers is 20 times their HCF. The sum of their LCM and HCF is 2520.

If one of those numbers is 480, then twice the other number is

రెండు సంఖ్యల క.సా.గు, వాటి గ. సా. భా కంటే 20 రెట్లు, వాటి క.సా.గు మరియు గ.సా.భా ల మొత్తం

2520. వాటిలో ఒక సంఖ్య 480 అయితే, అప్పుడు మరో సంఖ్య యొక్క రెట్టింపు

Options :

1. ✖ 1260

2. ✔ 1200

3. ✖ 1080

4. ✖ 940

Question Number : 85 Question Id : 496901300 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The HCF and LCM of two numbers are 21 and 4641 respectively. If one of those numbers lies between 200 and 300, then the sum of those two numbers is

రెండు సంఖ్యల గ. సా. భా, మరియు క.సా.గు లు వరుసగా 21 మరియు 4641. ఆ సంఖ్యలలో ఒకటి 200 మరియు 300 మధ్య వ్యవస్థితం అయితే, అప్పుడు ఆ రెండు సంఖ్యల మొత్తం

Options :

1. ✔ 630

2. ✖ 550

3. ✖ 740

4. ✖ 860

Question Number : 86 Question Id : 496901301 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

If $92 \times 576 \div \sqrt{1296} + 10 = x^3 + 144 + \sqrt{49}$, then the number that comes in the place of x is

$92 \times 576 \div \sqrt{1296} + 10 = x^3 + 144 + \sqrt{49}$ అయితే, అప్పుడు x యొక్క స్థానంలో ఉండవలసిన సంఖ్య

Options :

1. ✖ 49

2. ✖ 36

3. ✖ 27

4. ✔ 11

Question Number : 87 Question Id : 496901302 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

If $\sqrt{94.09} + 623.45 - \sqrt{125.44} = (?) - \sqrt[3]{6859}$, then the number that should come in place of (?) is

$\sqrt{94.09} + 623.45 - \sqrt{125.44} = (?) - \sqrt[3]{6859}$ అయితే, అప్పుడు (?) స్థానంలో భర్తీ చేయవలసిన సంఖ్య

Options :

1. ✖ 665.95

2. ✔ 640.95

3. ✖ 625.95

4. ✖ 620.95

Question Number : 88 Question Id : 496901303 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

If $A = \sqrt{7} - \sqrt{5}$, $B = \sqrt{5} - \sqrt{3}$, $C = \sqrt{9} - \sqrt{7}$ and $D = \sqrt{11} - \sqrt{9}$, then which one of the following is a correct ordering?

$A = \sqrt{7} - \sqrt{5}$, $B = \sqrt{5} - \sqrt{3}$, $C = \sqrt{9} - \sqrt{7}$ మరియు $D = \sqrt{11} - \sqrt{9}$ అయితే, అప్పుడు ఈ క్రింది వానిలో ఏది సరియిన క్రమము?

Options :

1. ✖ $B < A < C < D$

2. ✖ $A < C < B < D$

3. ✖ $C < D < A < B$

4. ✔ $D < C < A < B$

Question Number : 89 Question Id : 496901304 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The greatest among the numbers $\sqrt[4]{2}$, $\sqrt[5]{3}$, $\sqrt[10]{6}$ and $\sqrt[20]{15}$ is

$\sqrt[4]{2}$, $\sqrt[5]{3}$, $\sqrt[10]{6}$ మరియు $\sqrt[20]{15}$ సంఖ్యలలో గరిష్ట మైనది

Options :

1. ✔ $\sqrt[5]{3}$

2. ✖ $\sqrt[4]{2}$

3. ✖ $\sqrt[10]{6}$

4. ✖ $\sqrt[20]{15}$

Question Number : 90 Question Id : 496901305 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A trader marks the price of an article 40% higher than its cost price. He allows 5% discount. Had the cost price been 20% higher and discount 15%, he would have sold it for Rs. 98 more. Then the cost price of that article (in Rs.) is

ఒక వర్తకుడు ఒక వస్తువు ప్రకటిత ధరను, దానిని కొన్న వెల కంటే 40 % అధికంగా చూపుతాడు. అతడు 5 % డిస్కాంట్(ముదరా) ఇస్తాడు . కొన్న వెల 20% అధికమైయుండిన, డిస్కాంట్ 15% ఇస్తే, అతడు దానిని రూ 98 ఎక్కువకు అమ్మగలిగేవాడు. అప్పుడు ఆ వస్తువు యొక్క కొన్న వెల (రూ. లలో)

Options :

1. ✖ 1400

2. ✖ 1300

3. ✖ 1200

4. ✔ 1000

Question Number : 91 Question Id : 496901306 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The ratio of the cost price to the marked price of an article is 1:3 and the ratio of the percentage profit to the percentage of discount is 3:1. Then the discount percentage is

ఒక వస్తువు యొక్క కొన్న వెలకు, దాని ప్రకటిత ధరకు మధ్య గల నిష్పత్తి 1:3 మరియు లాభశాతమునకు, డిస్కాంట్ శాతమునకు మధ్యగల నిష్పత్తి 3:1. అప్పుడు డిస్కాంట్ శాతము

Options :

1. ✖ $13\frac{1}{3}$

2. ✖ $18\frac{2}{3}$

3. ✖ $25\frac{1}{3}$

4. ✔ $33\frac{1}{3}$

Question Number : 92 Question Id : 496901307 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

Two watches are marked up with the same price. The first watch is sold at 20% discount and the second one at successive discounts of 10% and 10%. The cost price of the first watch is half its marked price and that of the second watch is 10% less than the cost price of first watch. If the profit on the second watch is Rs. 1080, then the selling price of the first watch (in Rs.) is

రెండు గడియారములు ఒకే ధరతో ముద్రించబడి ఉన్నవి. మొదటి గడియారమును 20 % డిస్కాంట్ కి అమ్మి, రెండవ గడియారమును 10 % మరియు 10% పారంపరిక డిస్కాంట్ నకు అమ్మినారు. మొదటి గడియారం కొన్నవెల, దాని ప్రకటిత ధరలో సగం మరియు రెండవదాన్ని కొన్నవెల మొదటి గడియారం కొన్నవెల కంటే 10% తక్కువ. రెండవ గడియారం పై లాభం రూ.1080 అయితే, అప్పుడు మొదటి గడియారం అమ్మకపువెల (రూ.లలో)

Options :

1. ✖ 2460
2. ✔ 2400
3. ✖ 2540
4. ✖ 2800

Question Number : 93 Question Id : 496901308 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A Vendor has purchased some milk at Rs x per litre and mixed water so that the ratio of milk and water is 3:2. He then added 10 litres of water in the container and sold the mixture at the rate of Rs. x per litre. If he made a profit of 100%, the amount of milk in the container (in litres) is

ఒక వర్తకుడు కొన్ని పాలను లీటర్ ను x రూ.ల చొప్పున కొని పాలు మరియు నీరు 3 : 2 నిష్పత్తిలో ఉండునట్లు కొంత నీరును కలిపాడు. ఆ తరువాత అతడు ఆ పాత్రలో 10 లీటర్ల నీటిని చేర్చి, ఆ మిశ్రమాన్ని ఒక్కొక్క లీటరును x రూ .లకు అమ్మినాడు. అతడు 100% లాభాన్ని చేసుకుంటే, ఆ పాత్రలోని పాల యొక్క పరిమాణం (లీటర్లలో)

Options :

1. ✖ 20
2. ✔ 30
3. ✖ 40
4. ✖ 50

Question Number : 94 Question Id : 496901309 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A starts a business with Rs. 12,000. After 2 months B joins him with $\frac{3}{4}$ of the investment of A and A withdraws Rs. 3,000. After 2 more months, C joins them with Rs. 6000 and again A withdraws Rs. 2,000. At the end of the year, if C receives Rs. 1,872 as his share of profit, then the total profit they derived (in Rs.) is

A ఒక వ్యాపారాన్ని రూ. 12,000 లతో మొదలుపెట్టినాడు. రెండు నెలల తరువాత A యొక్క పెట్టుబడిలో $\frac{3}{4}$ వ వంతుతో B అతనితో కలిసినాడు మరియు రూ 3,000 లను A వెనుకకు తీసుకున్నాడు. మరో రెండు నెలల తరువాత C వారిని రూ. 6000 లతో కలిసినాడు. అప్పుడు రూ. 2,000 లను A వెనుకకు తీసుకున్నాడు. సంవత్సరాంతంలో రూ.1872 లను C తన వాటా లాభంగా పొందితే, వారు సంపాదించిన మొత్తం లాభం (రూ.లలో)

Options :

1. ✓ 9204
2. ✗ 9060
3. ✗ 8500
4. ✗ 8420

Question Number : 95 Question Id : 496901310 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

Anil and Sunil started a business with investments Rs. 56,400 and Rs. 64,800 respectively. After 4 months Kamal joined them with Rs. 72,400. If the difference between Kamal's share and Sunil's share in the annual profit is Rs. 1,240, then their total annual profit (in Rs.) is

అనీల్ మరియు సునీల్ లు వరుసగా రూ. 56,400 మరియు రూ. 64,800 లతో ఒక వ్యాపారాన్ని ప్రారంభించారు. 4 నెలల తరువాత కమల్ వారిని రూ 72,400 లతో కలిసినాడు. సంవత్సరాంతం లాభంలో కమల్ వాటా మరియు సునీల్ వాటాల మధ్య భేదం రూ.1,240 అయితే, అప్పుడు వారు సంవత్సరాంతంలో సంపాదించిన లాభం (రూ.లలో)

Options :

1. ✗ 14,790
2. ✗ 13,520
3. ✗ 12,760
4. ✓ 12,710

Question Number : 96 Question Id : 496901311 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A pipe can fill a tank in 16 minutes and a second one in 24 minutes. A third pipe can empty that full tank in 8 minutes. The first 2 pipes are kept open for 4 minutes in the beginning and then the third pipe is also opened. Then the time (in minutes) in which the tank will be emptied after all the three pipes started working simultaneously.

ఒక పైపు ఒక తొట్టిని 16 నిమిషములలోను, రెండో పైపు 24 నిమిషాలలోను నింపగలవు. మూడవ పైపు నిండుగా ఉన్న ఆ తొట్టిని 8 నిమిషములలో ఖాళీ చేయగలదు. మొదటి, రెండవ పైపులను 4 నిమిషములపాటు తెరచి ఉంచి, ఆ తర్వాత మూడవ పైపును కూడా తెరచి ఉంచారు. అప్పుడు మూడు పైపులు ఏక కాలంలో పనిని మొదలు పెట్టిన తరువాత ఎంతకాలమునకు(నిమిషాలలో) ఆ తొట్టి పూర్తిగా ఖాళీ అవుతుంది.

Options :

1. ✖ 30
2. ✔ 20
3. ✖ 26
4. ✖ 24

Question Number : 97 Question Id : 496901312 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

Tap A fills an empty tank in 1 hour and tap B empties it. Third tap C fills that tank in half an hour. All the taps are opened when the tank is full and the tank gets emptied in 1 hour. Then the time (in minutes) tap B alone empties it, is

కొళాయి A ఒక ఖాళీ తొట్టిని ఒక గంటలో నింపుతుంది. మరియు కొళాయి B దానిని ఖాళీ చేస్తుంది. మూడవ కుళాయి C ఆ ఖాళీ తొట్టిని అరగంటలో నింపుతుంది. తొట్టి పూర్తి గా నిండి ఉన్నప్పుడు అన్ని కుళాయిలను తెరచి ఉంచగా, ఆ తొట్టి ఒక గంటకు పూర్తిగా ఖాళీ అవుతుంది. అయితే కొళాయి B ఒక్కటే ఆ తొట్టిని ఖాళీ చేయడానికి పట్టే సమయం (ని.లలో)

Options :

1. ✖ 10
2. ✔ 15
3. ✖ 20
4. ✖ 25

Question Number : 98 Question Id : 496901313 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The distance travelled downstream by a boat in 3 hours is 12 km more than the distance travelled upstream by the boat in the same time. Then the speed of the current (in kmph) is

ప్రవాహం పోయే దిశలో పయనించే ఒక నావ 3 గంటల్లో ప్రయాణం చేసే దూరం, అదే సమయంలో ఆ నావ ప్రవాహానికి ఎదురు దిశలో ప్రయాణం చేసే దూరం కంటే 12 కి.మీ ఎక్కువ. అప్పుడు ఆ ప్రవాహం యొక్క వేగం (కి.మీ/గంటకు)

Options :

1. ✖ 6
2. ✖ 4
3. ✔ 2
4. ✖ 9

Question Number : 99 Question Id : 496901314 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A person swims a certain distance downstream in 45 minutes and comes back upstream in 120 minutes. If the speed of the stream is 3km/hour, then the speed of the swimmer (in km/hr) in still water is

ఒక వ్యక్తి ఒక నిర్దిష్ట దూరాన్ని ప్రవాహంపోయే దిశలో 45 నిమిషాలలో ఈడుకుని వెళ్లి, వెనుకకు ప్రవాహ వ్యతిరేక దిశలో 120 నిమిషాల్లో తిరిగి చేరుకుంటాడు. ప్రవాహం యొక్క వేగం గంటకు 3 కి.మీ అయితే ఆ ఈతగాడి వేగం నిలకడ నీటిలో (కి.మీ\గంటకు)

Options :

1. ✖ 4.75
2. ✖ 5.4
3. ✖ 6.0
4. ✔ 6.6

Question Number : 100 Question Id : 496901315 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A can complete a task in 27 days and B is thrice as efficient as A. A started the work, and after a few days B joined him. If the whole task was completed in 12 days, then after how many days from the time A started working, did B join A?

A ఒక పనిని 27 రోజులలో పూర్తి చేయగలడు మరియు A కంటే B మూడురెట్లు పనితీరు గలవాడు. A ఆ పనిని మొదలుపెట్టిన తరువాత కొన్ని రోజులకు B అతనితో కలిసినాడు. ఆ మొత్తం పని 12 రోజులలో పూర్తి అయితే, A ఆ పనిని మొదలుపెట్టిన ఎన్ని రోజుల తరువాత B అతనిని కలవడం అయినది.

Options :

1. ✖ 8

2. ✔ 7

3. ✖ 6

4. ✖ 5

Question Number : 101 Question Id : 496901316 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

5 women and 28 men can do a piece of work in 25 days. If women are found 40% more efficient in that work than men, the time (in days) required for 10 women and 11 men to complete 5 times that work, is

5 గురు స్త్రీలు మరియు 28 మంది పురుషులు ఒక పనిని 25 రోజులలో పూర్తి చేయగలరు. ఆ పనిలో స్త్రీలు పురుషులకంటే 40 శాతం ఎక్కువ సామర్థ్యాన్ని (పనితీరు) కలిగి ఉన్నట్లు గమనించితే, 10 మంది స్త్రీలు మరియు 11 మంది పురుషులు ఆ పని కంటే 5 రెట్లు గల పనిని పూర్తి చేయడానికి కావాల్సిన కాలం (రోజులలో)

Options :

1. ✖ 125

2. ✖ 150

3. ✖ 160

4. ✔ 175

Question Number : 102 Question Id : 496901317 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A playground of area 2430 sq.mt is built on $\frac{1}{3}$ of the area of a rectangular plot. The length of the plot is ten times the breadth of the plot. Then the perimeter of that rectangular plot (in mts) is

2430 చ. మీటర్ల వైశాల్యం గల ఒక ఆటస్థలంను ఒక దీర్ఘ చతురస్రాకారపు స్థలంలో $\frac{1}{3}$ వ వంతు వైశాల్యంలో నిర్మించారు. ఆ స్థలం యొక్క పొడవు, దాని వెడల్పునకు 10 రెట్లు. అప్పుడు ఆ దీర్ఘ చతురస్రాకారపు స్థలం యొక్క చుట్టుకొలత (మీటర్లలో)

Options :

1. ✔ 594

2. ✖ 625

3. ✖ 572

4. ✖ 464

Question Number : 103 Question Id : 496901318 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The breadth of a rectangle is 60% of the diagonal of a square of area 625 sq.cm. If the perimeter of the rectangle is $84\sqrt{2}$ cm, then the area of the rectangle (in sq.cm) is

ఒక దీర్ఘ చతురస్రం యొక్క వెడల్పు, 625 చ.సం.మీ వైశాల్యం గల ఒక చతురస్రం యొక్క వికర్ణం పొడవులో 60 శాతం. ఆ దీర్ఘచతురస్రం యొక్క చుట్టుకొలత $84\sqrt{2}$ సం.మీ అయితే, ఆ దీర్ఘ చతురస్రం వైశాల్యం (చ.సం.మీలలో)

Options :

1. ✖ 1025

2. ✖ 975

3. ✖ 860

4. ✔ 810

Question Number : 104 Question Id : 496901319 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

An open box is made of wood with 3 cm thickness. Its external dimensions are 1.46m, 1.16m and 8.3 decimetres. The cost (in Rs.) of painting the inner surface of the box at Rs. 5 per 100 sq.cm is

మూత లేని ఒక పెట్టె 3 సెం.మీ మందము గల చెక్క లేదా కొయ్యతో తయారుచేయబడింది. దాని పరిమాణములు 1.46 మీ, 1.16 మీ మరియు 8.3 డిసీ.మీ . ఆ పెట్టె యొక్క లోపలి తలంనకు రంగు వేయించడానికి 100 చ.సం.మీ లకు 5 రూ.ల చొప్పున అయ్యే ఖర్చు (రూ.లలో)

Options :

1. ✖ 1385

2. ✔ 2770

3. ✖ 1885

4. ✖ 2150

Question Number : 105 Question Id : 496901320 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A well with inside diameter 14m is dug 10m deep. Earth taken out of it is evenly spread all around it to a width of 21m to form an embankment. The height (in meters) of that embankment is

అంతరవ్యాసం 14 మీటర్లు గల ఒక నుయ్యి (బావి) ని 10 మీటర్ల లోతునకు త్రవ్వి, దాని నుండి వచ్చిన మట్టిని దాని చుట్టూ 21 మీటర్ల వెడల్పు గల ఒక గట్టుగా ఏర్పడేటట్లు పోసి చదునుగా వ్యాప్తి చెందించారు. ఆ గట్టు యొక్క ఎత్తు(మీ.లలో)

Options :

1. ✖ 3/5
2. ✖ 3/8
3. ✔ 2/3
4. ✖ 3/4

Question Number : 106 Question Id : 496901321 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

A conical shaped tent of height 14m with a floor area 346.5 sq.m is to be built with a canvas of width 1.1m. The length (in mts) of the canvas required to build that tent is

భూవైశాల్యం 346.5 చ.మీటర్లతో 14 మీటర్లు ఎత్తుగల ఒక శంఖు ఆకారపు టెంట్ ను 1.1 మీటర్ల వెడల్పు గల కాన్వాస్ గుడ్డతో తయారుచేయాలి. ఆ టెంట్ ను నిర్మించడానికి అవసరమయ్యే కాన్వాస్ పొడవు (మీటర్లలో)

Options :

1. ✖ 425
2. ✖ 460
3. ✖ 490
4. ✔ 525

Question Number : 107 Question Id : 496901322 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

There are two cones such that the curved surface area of the first is twice that of the second. If the slant height of the second is thrice that of the first, then the ratio of their radii is

మొదటి దాని వక్రతల వైశాల్యం రెండోదాని వక్రతల వైశాల్యంకి రెట్టింపు అయ్యేటట్లు రెండు శంఖువులు ఉన్నాయి. రెండవదాని వాలు ఎత్తు, మొదటిదాని వాలు ఎత్తునకు మూడు రెట్లు అయితే, అప్పుడు వాటి వ్యాసార్థముల నిష్పత్తి

Options :

1. ✖ 3:1
2. ✖ 2:1
3. ✖ 4:1
4. ✔ 6:1

Question Number : 108 Question Id : 496901323 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

Four coins each of diameter 1cm are placed on a table such that the rim of each coin touches the rim of two other coins. The area of the unoccupied space between those four coins (in sq. cm) is nearly

ప్రతి నాణెం యొక్క అంచు(చట్రము) రెండు ఇతర నాణెముల అంచులను స్పృశించేటట్లుగా 1 సెం. మీ వ్యాసము కలిగిన నాలుగు నాణెముల ను ఒక టేబుల్ పైన ఉంచారు. ఆ నాలుగు నాణెముల మధ్య భరికాని (ఖాళీగా ఉన్న) ప్రదేశం వైశాల్యం (చ.సెం.మీలలో) సుమారుగా

Options :

1. ✔ 0.214
2. ✖ 0.224
3. ✖ 0.236
4. ✖ 0.245

Question Number : 109 Question Id : 496901324 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The binary form of 1,000 is

1,000 యొక్క బైనరీ రూపం

Options :

1. ✖ 1111001001
2. ✖ 1111101100
3. ✔ 1111101000
4. ✖ 1111011100

Question Number : 110 Question Id : 496901325 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

image>Q76_apicet_set12020_q11915512.jpg

The remainder obtained when 9^{100} is divided by 8, is

9¹⁰⁰ ను 8 భాగించినప్పుడు రాబట్టే శేషము

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 5

Question Number : 111 Question Id : 496901326 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Which one of the following options is a tautology?

ఈ క్రింది ఐచ్చికాలలో ఏది నిత్య సత్యం?

Options :

1. ✗ $(\sim Q \rightarrow \sim P) \vee Q$

2. ✗ $(P \wedge Q) \Leftrightarrow (\sim P \vee \sim Q)$

3. ✓ $\sim(P \vee Q) \vee (\sim P \wedge Q) \vee P$

4. ✗ $(P \vee Q) \wedge (\sim P \vee \sim R)$

Question Number : 112 Question Id : 496901327 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The statement $p \Leftrightarrow q$ is equivalent to

$p \Leftrightarrow q$ ప్రవచనానికి తుల్యమయ్యేది

Options :

1. ✗ $p \wedge \sim q$

2. ✗ $p \Leftrightarrow \sim q$

3. ✗ $\sim p \vee q$

4. ✓ $\sim q \Rightarrow \sim p$

Question Number : 113 Question Id : 496901328 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

In a market survey on 1000 consumers, 720 consumers liked product A and 450 liked product B. The least number of consumers who liked both the products is

1000 మంది వినియోగదారులపై జరిపిన ఒక మార్కెట్ సర్వే లో 720 మంది వినియోగదారులు వస్తువు A ను 450 మంది వినియోగదారులు వస్తువు B ను ఇష్టపడతారు. ఈ రెండు వస్తువులను ఇష్టపడే వినియోగదారుల కనిష్ట సంఖ్య

Options :

1. ✓ 170

2. ✗ 220

3. ✗ 250

4. ✗ 280

Question Number : 114 Question Id : 496901329 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If A is a set with $n(A) = 5$, then the number of reflexive relations on A is

$n(A) = 5$ తో A ఒక సమితి అయితే, A పైగల పరావర్తన సంబంధముల సంఖ్య

Options :

1. ✗ 2^{10}

2. ✗ 2^{15}

3. ✓ 2^{20}

4. ✗ 2^{25}

Question Number : 115 Question Id : 496901330 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $f: \mathbb{R} \rightarrow \mathbb{R}$ is defined by $f(x) = 2x + |x|$ and $f(3x) - f(-x) - 4x = k f(x)$, then $k =$

$f: \mathbb{R} \rightarrow \mathbb{R}$ ప్రమేయం $f(x) = 2x + |x|$ గా నిర్వచింపబడి మరియు $f(3x) - f(-x) - 4x =$

$k f(x)$ అయితే, అప్పుడు $k =$

Options :

1. ✖ -2

2. ✖ 1

3. ✔ 2

4. ✖ 3

Question Number : 116 Question Id : 496901331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If the point $(-2, 3)$ divides the portion of the line between the coordinate axes in the ratio $2:3$, then the equation of that line is

నిరూపక అక్షముల మధ్యగల రేఖ యొక్క భాగమును $2 : 3$ నిష్పత్తిలో విభజించే బిందువు $(-2, 3)$

గుండా పోయే సరళరేఖ యొక్క సమీకరణం

Options :

1. ✖ $3x + 4y - 6 = 0$

2. ✔ $9x - 4y + 30 = 0$

3. ✖ $5x + 4y - 2 = 0$

4. ✖ $9x + 2y + 12 = 0$

Question Number : 117 Question Id : 496901332 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The equation of a line passing through the point $(2, 3)$ and making an angle 45° with the line $3x - y + 5 = 0$ is

$(2, 3)$ బిందువు గుండా పోతూ, $3x - y + 5 = 0$ సరళరేఖతో 45° కోణమును చేసే ఒక సరళ రేఖ

యొక్క సమీకరణం

Options :

1. ✖ $3x + y - 9 = 0$
2. ✖ $2x - y - 1 = 0$
3. ✔ $x - 2y + 4 = 0$
4. ✖ $x + 2y - 8 = 0$

Question Number : 118 Question Id : 496901333 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$\sin^2 \frac{2\pi}{3} + \cos^2 \frac{5\pi}{6} - \tan^2 \frac{3\pi}{4} =$$

Options :

1. ✖ $3/2$
2. ✔ $1/2$
3. ✖ 1
4. ✖ -1

Question Number : 119 Question Id : 496901334 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

For $0^\circ < \theta < 90^\circ$, which one of the following cannot be the value of $\tan \theta + \cot \theta$?

$0^\circ < \theta < 90^\circ$, ఈ క్రింది వానిలో ఏది $\tan \theta + \cot \theta$ యొక్క విలువ కాజాలదు

Options :

1. ✖ $2\sqrt{2}$
2. ✖ $\sqrt{5}$
3. ✔ $\sqrt{3}$
4. ✖ 3

Question Number : 120 Question Id : 496901335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $\frac{\cos \theta}{1 - \sin \theta} = 3$, then the value of $\sec \theta =$

$\frac{\cos \theta}{1 - \sin \theta} = 3$ అయితే, అప్పుడు $\sec \theta$ యొక్క విలువ

Options :

1. ✖ $3/5$
2. ✔ $5/3$
3. ✖ $8/3$
4. ✖ $10/3$

Question Number : 121 Question Id : 496901336 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

A flagstaff of 5 mts high stands on a building of 25 mts high. For an observer at a height of 30 mts, the flagstaff and the building subtend equal angles. Then the distance of the observer (in mts) from the top of the flag staff is

5 మీటర్ల ఎత్తుగల ఒక జెండా కర్ల, 25 మీటర్ల ఎత్తు గల ఒక భవనంపై నిలబడి ఉంది. 30 మీటర్ల ఎత్తు వద్ద నున్న ఒక పరిశీలకునికి జెండా కర్ల మరియు ఆ భవనం సమానమైన కోణములు చేస్తున్నాయి. జెండా కర్ల కొన భాగం నుండి ఆ పరిశీలకునికి గల దూరం (మీ.లలో)

Options :

1. ✖ $3\sqrt{6}$
2. ✖ $\frac{3}{2}\sqrt{6}$
3. ✔ $\frac{5}{2}\sqrt{6}$
4. ✖ $5\sqrt{6}$

Question Number : 122 Question Id : 496901337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Number of positive integers x for which $f(x) = x^3 - 8x^2 + 20x - 13$ is a prime number is

$f(x) = x^3 - 8x^2 + 20x - 13$ ఒక ప్రధాన సంఖ్య కావడానికి గల ధన పూర్ణ సంఖ్యలు x యొక్క సంఖ్య

Options :

1. ✖ 5

2. ✖ 4

3. ✔ 3

4. ✖ 2

Question Number : 123 Question Id : 496901338 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $x + \frac{1}{x} = 5$, then $x^4 + \frac{1}{x^4} =$

$x + \frac{1}{x} = 5$ అయితే, అప్పుడు $x^4 + \frac{1}{x^4} =$

Options :

1. ✖ 625

2. ✖ 575

3. ✔ 527

4. ✖ 525

Question Number : 124 Question Id : 496901339 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The value of $a + b$ for which the polynomial $3x^3 - ax^2 - 74x + b$ is a multiple of $x^2 + 2x - 24$ is

$3x^3 - ax^2 - 74x + b$ అనే బహుపది $x^2 + 2x - 24$ యొక్క గుణిజం కావడానికి, $a + b$ యొక్క విలువ.

Options :

1. ✔ 19

2. ✖ 12

3. ✖ 9

4. ✖ 29

Question Number : 125 Question Id : 496901340 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $f(x) = x^2 + 5x + p$ and $g(x) = x^2 + 3x + q$ have a common factor $Q(x)$, then $Q(x) =$

$f(x) = x^2 + 5x + p$ మరియు $g(x) = x^2 + 3x + q$ లు ఒక ఉమ్మడి కారకము $Q(x)$ ని కలిగి ఉంటే, అప్పుడు $Q(x) =$

Options :

1. ✔ $x + \left(\frac{p-q}{2}\right)$

2. ✖ $x - \left(\frac{p-q}{2}\right)$

3. ✖ $x + \left(\frac{p+q}{2}\right)$

4. ✖ $x - \left(\frac{p+q}{2}\right)$

Question Number : 126 Question Id : 496901341 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Atal's age 3 years ago was three times the present age of Amit. At present Anil's age is twice the age of Amit. Anil is 11 years younger than Atal. Then the present age of Anil (in years) is

3 సంవత్సరముల క్రిందట అటల్ వయసు, అమిత్ యొక్క ప్రస్తుత వయసునకు మూడు రెట్లు.

ప్రస్తుతం అనిల్ యొక్క వయసు అమిత్ వయసునకు రెట్టింపు. అటల్ కంటే అనిల్ 11

సంవత్సరములు చిన్నవాడు. అప్పుడు అనిల్ యొక్క ప్రస్తుత వయస్సు (సంవత్సరాలలో)

Options :

1. ✖ 8

2. ✖ 9

3. ✖ 27

4. ✓ 16

Question Number : 127 Question Id : 496901342 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

A shopkeeper sells an item at a profit of 15%. If he reduces the price of that item by Rs. 200, he makes a loss of 10 % on it. Then the cost price of that item (in Rs.) is

ఒక దుకాణదారుడు ఒక వస్తువును 15% లాభానికి అమ్ముతాడు. అతడు ఆ వస్తువు ధరను 200 రూలు తగ్గిస్తే, దానిపై అతడు 10% నష్టం పొందుతాడు. అప్పుడు ఆ వస్తువు యొక్క కోస్త ధర (రూ.లలో)

Options :

1. ✗ 780

2. ✗ 795

3. ✓ 800

4. ✗ 805

Question Number : 128 Question Id : 496901343 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

A manufacturer of TV sets produced 600 sets in third year and 700 sets in the seventh year. If the production of sets increases uniformly by a fixed number every year, the total production in first seven years is

టెలివిజన్ సెట్లను తయారు చేసే ఉత్పత్తిదారుడు మూడవ సంవత్సరములో 600 సెట్లను, ఏడవ సంవత్సరములో 700 సెట్లను ఉత్పత్తి చేసాడు. సెట్ల ఉత్పత్తి ప్రతి సంవత్సరం ఒక నిర్దిష్ట సంఖ్యలో ఏకరూపంలో పెరుగుతుంటే, మొదటి ఏడు సంవత్సరాలలో చేసిన ఉత్పత్తి

Options :

1. ✓ 4375

2. ✗ 4425

3. ✗ 4540

4. ✗ 4620

Question Number : 129 Question Id : 496901344 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

A ladder has rungs 25 cm apart. The rungs decrease uniformly in length from 45 cm at the bottom to 25 cm at the top. If the top and bottom rungs are $2\frac{1}{2}$ m apart, the length of the wood (in cms) required for the rungs is

ఒక నిచ్చెనకు గల మెట్లు 25 సెం.మీ దూర అంతరంలో ఉన్నాయి. దాని మెట్లు పొడవు అట్టడుగు భాగంలో 45 సెం.మీ లనుండి కొన భాగంలో 25 సెం.మీ ల వరకు వరకు ఏకరూప రీతి తగ్గుతూ వ్యవస్థితం అయ్యాయి. కొన భాగం లోని మెట్లు మరియు అట్టడుగు భాగంలోని మెట్టుల మధ్య దూరం $2\frac{1}{2}$ మీటర్లు ఉంటే, ఆ మెట్టుకు అవసరం అయ్యే కొయ్య (చెక్క) పొడవు (సెం.మీలలో)

Options :

1. ✓ 385
2. ✗ 392
3. ✗ 398
4. ✗ 412

Question Number : 130 Question Id : 496901345 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If the coefficients of x^7 and x^8 in the expansion of $\left(3 + \frac{x}{2}\right)^n$ are equal, then $n =$

$\left(3 + \frac{x}{2}\right)^n$ యొక్క విస్తరణలో x^7 మరియు x^8 యొక్క గుణకములు సమానం అయితే, అప్పుడు $n =$

Options :

1. ✗ 42
2. ✗ 46
3. ✗ 49
4. ✓ 55

Question Number : 131 Question Id : 496901346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The numerically greatest term in the expansion of $(1 - 3x)^{10}$ when $x = \frac{1}{2}$ is

$x = \frac{1}{2}$ అయినప్పుడు $(1 - 3x)^{10}$ యొక్క విస్తరణలో సంఖ్యాత్మకంగా గరిష్టం అయ్యే పదం.

Options :

1. ✓ $10C_6 \left(\frac{3}{2}\right)^6$

2. ✗ $10C_6 \left(\frac{3}{2}\right)^7$

3. ✗ $10C_7 \left(\frac{2}{3}\right)^7$

4. ✗ $10C_7 \left(\frac{3}{2}\right)^5$

Question Number : 132 Question Id : 496901347 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $3A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & -2 \\ x & 2 & y \end{bmatrix}$ and $AA^T = A^T A = I$, then $x + y =$

$3A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & -2 \\ x & 2 & y \end{bmatrix}$ మరియు $AA^T = A^T A = I$ అయితే, అప్పుడు $x + y =$

Options :

1. ✗ -2

2. ✓ -3

3. ✗ 4

4. ✗ 5

Question Number : 133 Question Id : 496901348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

A is a 2x2 matrix, such that $A \begin{bmatrix} 1 \\ -1 \end{bmatrix} = \begin{bmatrix} -1 \\ 2 \end{bmatrix}$ and $A^2 \begin{bmatrix} 1 \\ -1 \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$. Then the sum of the elements of A is

$A \begin{bmatrix} 1 \\ -1 \end{bmatrix} = \begin{bmatrix} -1 \\ 2 \end{bmatrix}$ మరియు $A^2 \begin{bmatrix} 1 \\ -1 \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$ అయ్యేటట్లు గా A ఒక 2x2 మాత్రిక అయితే, అప్పుడు A యొక్క మూలకముల మొత్తం

Options :

1. ✖ -1

2. ✖ 0

3. ✖ 3

4. ✔ 5

Question Number : 134 Question Id : 496901349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$\lim_{x \rightarrow 0} \left[\frac{12^x - 3^x - 4^x + 1}{1 - \cos 2x} \right] =$$

Options :

1. ✖ $\frac{1}{2} \log 7$

2. ✖ $\frac{\log 3}{\log 2}$

3. ✔ $\log 3 \cdot \log 2$

4. ✖ $\frac{1}{2} \log 12$

Question Number : 135 Question Id : 496901350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $x^{\frac{2}{3}} + y^{\frac{2}{3}} = a^{\frac{2}{3}}$, then $\frac{dy}{dx} =$

$$x^{\frac{2}{3}} + y^{\frac{2}{3}} = a^{\frac{2}{3}} \text{ అయితే, అప్పుడు } \frac{dy}{dx} =$$

Options :

1. ✖ $a \left(\frac{y}{x} \right)$

2. ✖ $\left(\frac{y}{x}\right)^{\frac{1}{3}}$

3. ✔ $-\left(\frac{y}{x}\right)^{\frac{1}{3}}$

4. ✖ $a^{\frac{1}{3}}(y+x)^{\frac{1}{3}}$

Question Number : 136 Question Id : 496901351 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

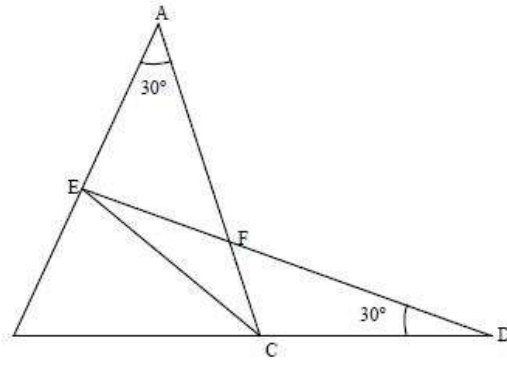
బీజీయ, జ్యామితీయ సామర్థ్యత

In the following figure, if $AE=EC=CD$ and $\angle EDC = \angle EAC = 30^\circ$, then $\angle AED =$

ఈదిగువన ఈయబడిన పటంలో $AE=EC=CD$

మరియు $\angle EDC = \angle EAC = 30^\circ$ అయితే,

అప్పుడు $\angle AED =$



Options :

1. ✖ 30°

2. ✖ 45°

3. ✖ 60°

4. ✔ 90°

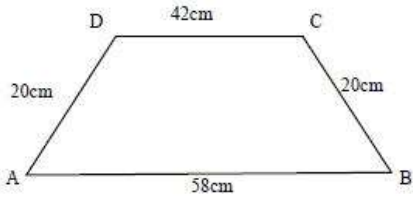
Question Number : 137 Question Id : 496901352 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

What is the area (in sq. cm.) of the trapezium in the figure given below?

ఈ క్రింద ఇవ్వబడిన పటంలోని సమలంబ చతుర్భుజ యొక్క వైశాల్యం (చ/సం|మీ లలో) ఎంత?



Options :

1. ✖ $400\sqrt{21}$
2. ✖ $300\sqrt{21}$
3. ✔ $200\sqrt{21}$
4. ✖ $100\sqrt{21}$

Question Number : 138 Question Id : 496901353 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

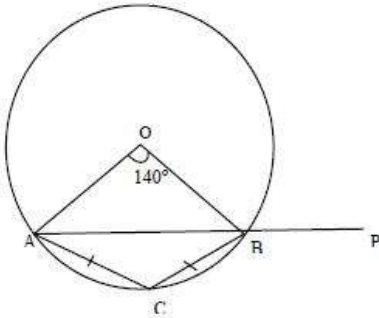
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

In the circle given below with centre 'O', if $AC=BC$ and $\angle AOB = 140^\circ$ then $\angle PBC =$

ఈ క్రింద ఇవ్వబడిన 'O' కేంద్రంగాగల వృత్తంలో $AC=BC$ మరియు $\angle AOB = 140^\circ$ అయితే, అప్పుడు $\angle PBC =$



Options :

1. ✖ 125°
2. ✔ 145°
3. ✖ 155°
4. ✖ 170°

Question Number : 139 Question Id : 496901354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The four points (1, 7), (4, 2), (-1, -1) and (-4, 4) are the vertices of a

(1, 7), (4, 2), (-1, -1) మరియు (-4, 4) అనే నాలుగు బిందువులు దేని శీర్షములు

Options :

1. ✓ Square / చతురస్రము
2. ✗ Rhombus / సమ చతుర్భుజం
3. ✗ Parallelogram / సమాంతర చతుర్భుజం
4. ✗ Rectangle / దీర్ఘ చతురస్రం

Question Number : 140 Question Id : 496901355 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If the point A(6, 1), B(8, 2), C(9, 4) and D(p, 3) are the vertices of a parallelogram taken in order, then the value of p is

A(6, 1), B(8, 2), C(9, 4) మరియు D(p, 3) లు ఒక సమాంతర చతుర్భుజం యొక్క అదే

క్రమంలోని శీర్షములు అయితే, అప్పుడు p యొక్క విలువ

Options :

1. ✗ 6
2. ✗ 11/2
3. ✓ 7
4. ✗ 9

Question Number : 141 Question Id : 496901356 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

Mean marks secured by the students in a class is 53. The mean marks of girls is 55 and mean marks of the boys is 50. The percentage of girls in the class is

ఒక తరగతిలోని విద్యార్థులు తెచ్చుకున్న మార్కుల అంక మధ్యమం 53. బాలికల మార్కుల అంక మధ్యమం 55 మరియు బాలుర మార్కుల అంక మధ్యమం 50. ఆ తరగతిలోని బాలికల శాతం?

Options :

1. ✖ 65
2. ✔ 60
3. ✖ 55
4. ✖ 40

Question Number : 142 Question Id : 496901357 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

x_1, x_2, x_3 are ungrouped data with $x_1 > x_2 > x_3$. If the arithmetic mean and median of this data are respectively 30 and 20 and $x_1 - x_3 = 50$, then $x_3 =$

$x_1 > x_2 > x_3$ తో x_1, x_2, x_3 అవర్గీకృత దత్తాంశం. ఈ దత్తాంశం యొక్క అంఖమధ్యమం మరియు మధ్యగతిములు వరుసగా 30 మరియు 20 అవుతూ $x_1 - x_3 = 50$ అయితే, అప్పుడు $x_3 =$

Options :

1. ✔ 10
2. ✖ 15
3. ✖ 20
4. ✖ 25

Question Number : 143 Question Id : 496901358 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

The mode of the following distribution is

ఈ క్రింది విభజనము యొక్క బహుళకము

Class interval తరగతి అంతరం	0-10	10-20	20-30	30-40	40-50
Frequency పానః పున్యం	14	25	27	24	15

Options :

1. ✖ 22

2. ✔ 24

3. ✖ 25

4. ✖ 27

Question Number : 144 Question Id : 496901359 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

The median of four observations is 4 and their mode is 6. If the sum of the squares of those observations is 48, then their standard deviation is

నాలుగు పరిశీలనల మధ్యగతం 4 మరియు వాటి బహుళకం 6. ఆ పరిశీలనల వర్గముల మొత్తం 48

అయితే వాటి యొక్క క్రమ చలనము

Options :

1. ✖ 3

2. ✔ $\sqrt{3}$

3. ✖ 2

4. ✖ $\sqrt{5}$

Question Number : 145 Question Id : 496901360 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

A population with two groups has 250 items with mean 15.6 and variance 13.44. The first group of 100 items has mean 15 and variance 9. Then the standard deviation of the second group is

రెండు సముదాయములతో కూడిన ఒక జనాభా, అంఖ మధ్యమం 15.6 మరియు విస్తృతి 13.44 తో 250 అంశములను కలిగి ఉంది. వాటిలో మొదటి సముదాయము అంఖ మధ్యమం 15 మరియు విస్తృతి 9 లతో 100 అంశాలను కలిగి ఉంది. అప్పుడు రెండో సముదాయం యొక్క క్రమ విచలనం

Options :

1. ✖ 2.0
2. ✖ 2.5
3. ✖ 3.0
4. ✔ 4.0

Question Number : 146 Question Id : 496901361 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

The height x (in cms) and the weight y (in kgs) of 5 students are given below:

5 గురు విద్యార్థుల యొక్క ఎత్తు x (సెం.మీ లలో) మరియు బరువు y (కి.గ్రా.లలో) ఈ దిగువన ఇవ్వబడినది.

x	160	161	162	163	164
y	50	53	54	56	57

The coefficient of correlation ρ_{xy} between their heights and weights is nearly

వారి ఎత్తులు మరియు బరువుల మధ్య గల సహసంబంధ గుణకం ρ_{xy} సుమారుగా

Options :

1. ✖ 0.86
2. ✖ 0.88
3. ✖ 0.94
4. ✔ 0.98

Question Number : 147 Question Id : 496901362 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

In a lottery of 118 tickets numbered 1 to 118, three tickets are drawn at random simultaneously. The probability that all the tickets drawn have prime numbers is

1 నుండి 118 వరకు గల అంకెలును వేసిన 118 టికెట్లు గల ఒక లాటరీలో యాదృచ్ఛికంగా మూడు టికెట్లను ఏక కాలంలో తీసారు. తీసిన అన్ని టికెట్లు ప్రధాన సంఖ్యలను కలిగి ఉండే సంభావ్యత

Options :

1. ✓ $\frac{35}{2301}$

2. ✗ $\frac{33}{2302}$

3. ✗ $\frac{43}{2301}$

4. ✗ $\frac{28}{2103}$

Question Number : 148 Question Id : 496901363 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

A student appears for tests I, II and III. He will be successful if he passes through either Test I and Test II or Test I and Test III. The probability of a student passing the tests I, II, III are p, q, $\frac{1}{2}$ respectively. If the probability that a student is successful is $\frac{1}{2}$, then which one of the following is true?

ఒక విద్యార్థి పరీక్ష I, II, III లకు హాజరు అయ్యాడు. అతడు I, మరియు II పరీక్షలు గాని లేదా I మరియు III పరీక్షలు గాని ఉత్తీర్ణుడు అయితే అతడు విజయం సాధించినట్లే. ఒక విద్యార్థి I, II, III పరీక్షలలో ఉత్తీర్ణత సాధించే సంభావ్యత వరుసగా p, q, $\frac{1}{2}$. ఒక విద్యార్థి విజయం సాధించే సంభావ్యత $\frac{1}{2}$ అయితే, ఈ క్రింది వానిలో ఏది సత్యం?

Options :

1. ✗ $p = q = \frac{1}{2}$

2. ✗ $p = 1, q = \frac{1}{2}$

3. ✓ $p = \frac{1}{2}, q = 1$

4. ✗ $p = \frac{1}{2}, q = \frac{1}{4}$

Question Number : 149 Question Id : 496901364 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

A bag contains 20 red and green tennis balls, of which 8 are marked 'used' and 12 are red. If the probability of picking a green marked 'used' ball is $\frac{1}{5}$, the probability of picking a red unmarked ball from the bag is

ఒక సంచి లో 20 ఎర్రని మరియు ఆకుపచ్చని టెన్నిస్ బంతులు ఉన్నాయి. వాటిలో 8 బంతులపై 'వాడినది' అనే గుర్తు వేసినవి మరియు 12 ఎర్రనివి. ఒక ఆకుపచ్చని 'వాడినది' అనే గుర్తు వేసిన బంతిని ఎంచీ తీసే సంభావ్యత $\frac{1}{5}$ అయితే, ఆ సంచి నుండి ఒక ఎర్రని గుర్తు వెయ్యని బంతిని తీయగల సంభావ్యత

Options :

1. ✓ $\frac{2}{5}$
2. ✗ $\frac{3}{5}$
3. ✗ $\frac{4}{5}$
4. ✗ $\frac{3}{8}$

Question Number : 150 Question Id : 496901365 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యిక సామర్థ్యత

A 2×2 matrix having elements 0 and 1 is selected at random. The probability that it is a non-singular matrix is

0 మరియు 1 లను మూలకాలు గా కలిగిన ఒక 2×2 మాత్రికను యాదృచ్ఛికంగా ఎంపిక చేసారు. అది ఒక సాధారణ మాత్రిక కాగల సంభావ్యత

Options :

1. ✗ $\frac{1}{4}$
2. ✓ $\frac{3}{8}$
3. ✗ $\frac{1}{3}$
4. ✗ $\frac{5}{8}$

Communication Ability

Section Id :

4969016

Section Number :

3

Section type :

Online

Mandatory or Optional :

Mandatory

Number of Questions :	38
Number of Questions to be attempted :	38
Section Marks :	50
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	49690123
Question Shuffling Allowed :	Yes

Question Number : 151 Question Id : 496901366 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct meaning of the word given:

ephemeral

Options :

- ✖ enduring
- ✖ lively
- ✔ short-lived
- ✖ lifeless

Question Number : 152 Question Id : 496901367 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct meaning of the word given:

Fetters

Options :

- ✔ shackles
- ✖ tethers
- ✖ fritters
- ✖ shutters

Question Number : 153 Question Id : 496901368 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct meaning of the word given:

Reiterate

Options :

- ✖ Complete

2. ✖ Tolerate

3. ✖ Alleviate

4. ✔ Repeat

Question Number : 154 Question Id : 496901369 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct meaning of the word given:

Inhibit

Options :

1. ✖ Hire

2. ✔ Prevent

3. ✖ Exhibit

4. ✖ inhabit

Question Number : 155 Question Id : 496901370 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct meaning of the word given:

Excruciating

Options :

1. ✔ agonizing

2. ✖ encouraging

3. ✖ endorsing

4. ✖ complicated

Question Number : 156 Question Id : 496901371 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct meaning of the word given:

hoodwink

Options :

1. ✖ link

2. ✓ deceive

3. ✗ blink

4. ✗ wink

Question Number : 157 Question Id : 496901372 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blank choosing the correct word:

The disgusted king _____ the throne.

Options :

1. ✗ yielded

2. ✗ resigned

3. ✗ discharged

4. ✓ abdicated

Question Number : 158 Question Id : 496901373 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blank choosing the correct word:

The enemy camp was set _____ by the Indian Air Force.

Options :

1. ✗ adrift

2. ✓ ablaze

3. ✗ athwart

4. ✗ across

Question Number : 159 Question Id : 496901374 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blank choosing the correct word:

I wish I _____ the truth.

Options :

1. ✗ have known

2. ✖ know

3. ✔ knew

4. ✖ can knew

Question Number : 160 Question Id : 496901375 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Fill in the blank choosing the correct word:

The girl has decided to marry him come what ____.

Options :

1. ✖ shall

2. ✖ can

3. ✖ must

4. ✔ may

Question Number : 161 Question Id : 496901376 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

Crowd funding means

Options :

1. ✔ Raising small funds from many people

2. ✖ Raising funds for a large organisation

3. ✖ Raising small funds for social welfare

4. ✖ Raising funds for developing infrastructure

Question Number : 162 Question Id : 496901377 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

MBO stands for

Options :

1. ✖ Management by Observations

2. ✔ Management by Objectives

3. ✖ Management by Obstacles
4. ✖ Management by Organization

Question Number : 163 Question Id : 496901378 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

Software that allows you to view a PDF document

Options :

1. ✖ XPS viewer
2. ✖ Google Reader
3. ✖ Mozilla Firefox Reader
4. ✔ Acrobat Reader

Question Number : 164 Question Id : 496901379 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

URL stands for _____

Options :

1. ✖ Universal Resource Location
2. ✖ Uniform Research Locator
3. ✔ Uniform Resource Locator
4. ✖ Universal Resident Location

Question Number : 165 Question Id : 496901380 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

WinZip is a software used for attaching _____ files.

Options :

1. ✖ encoded
2. ✖ decoded

3. ☒ large

4. ☐ small

Question Number : 166 Question Id : 496901381 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

De-jobbing refers to

Options :

1. ☒ Broadening the responsibilities of a job

2. ☐ Reducing the responsibilities of a job

3. ☐ Removing an employee from service

4. ☐ Changing the current job of an employee.

Question Number : 167 Question Id : 496901382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

The list of items and products in stock

Options :

1. ☐ spreadsheet

2. ☐ turnover

3. ☒ inventory

4. ☐ stocking

Question Number : 168 Question Id : 496901383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

Grapevine refers to

Options :

1. ☐ a kind of alcohol

2. ☐ grapes served in the meeting

3. ☐ proceedings of a debate

4. ✓ circulation of rumours

Question Number : 169 Question Id : 496901384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

Cold call refers to _____

Options :

1. ✗ a sales call made at an appointed hour.
2. ✗ an anonymous threatening call.
3. ✗ an annoying call treated as a nuisance
4. ✓ a sales call to an unprepared recipient.

Question Number : 170 Question Id : 496901385 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

In camera session refers to a _____

Options :

1. ✗ public session
2. ✗ session in the presence of photographers
3. ✗ modelling session
4. ✓ private session

Question Number : 171 Question Id : 496901386 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

‘Raghu, are you quitting the job for good?’

The speaker asks Raghu _____

Options :

1. ✗ if quitting the job is good for him.
2. ✓ if he is quitting the job permanently.

3. ✖ if he is quitting the job for a good reason.

4. ✖ if he is doing good by quitting the job.

Question Number : 172 Question Id : 496901387 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

A: Why don't you do it?

B: It's not my cup of tea.

In this conversation, B says that _____.

Options :

1. ✔ he is not interested in it.

2. ✖ he would do it after a cup of tea.

3. ✖ he is not able to do fast.

4. ✖ he hasn't taken his tea yet.

Question Number : 173 Question Id : 496901388 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

A: The agitators have been shouting that the government has not done the right thing. Do you agree?

B: I am afraid that their argument will not hold water.

B implies that

Options :

1. ✖ the agitators are right

2. ✖ the agitators are hesitant

3. ✔ the agitators' contention is false.

4. ✖ the agitators deserve support.

Question Number : 174 Question Id : 496901389 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

A: The court reduced the term of his punishment.

B: This was so because the criminal made a clean breast of his doings.

B means that the criminal

Options :

1. ✖ cleaned his chest with water
2. ✔ made a confession of his guilt
3. ✖ said that his acts were above reproach
4. ✖ likes people to have clean bodies

Question Number : 175 Question Id : 496901390 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

During recession many companies are forced to lay _____ their employees.

Options :

1. ✖ over
2. ✔ off
3. ✖ aside
4. ✖ of

Question Number : 176 Question Id : 496901391 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

He has made quite a fortune.

The above statement implies that

Options :

1. ✖ he quietly amassed wealth
2. ✖ fortune came to him, unasked for
3. ✔ he acquired a lot of wealth

4. ✖ he obtained wealth from foul means

Question Number : 177 Question Id : 496901392 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct answer:

Randy has _____ terrible headache

Options :

1. ✔ a
2. ✖ an
3. ✖ no article
4. ✖ the

Question Number : 178 Question Id : 496901393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

We haven't gone on a holiday _____ our last anniversary.

Options :

1. ✖ for
2. ✖ from
3. ✔ since
4. ✖ from about

Question Number : 179 Question Id : 496901394 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

If he _____ to the U.S., he could see The White House

Options :

1. ✖ goes
2. ✔ went
3. ✖ go

4. ✖ had gone

Question Number : 180 Question Id : 496901395 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

He started watching the TV, after he _____

Options :

1. ✖ will finish his homework

2. ✔ had finished his homework

3. ✖ has finished his homework

4. ✖ has been finished his home work

Question Number : 181 Question Id : 496901396 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

If you had warned me, I _____ done that

Options :

1. ✔ wouldn't have

2. ✖ won't have

3. ✖ wouldn't have been

4. ✖ shall not have

Question Number : 182 Question Id : 496901397 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

Thousands died _____ Corona virus.

Options :

1. ✖ in

2. ✖ upon

3. ✔ of

4. ✖ into

Question Number : 183 Question Id : 496901398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

The region abounds _____ natural resources

Options :

1. ✖ up

2. ✖ on

3. ✖ upon

4. ✔ in

Question Number : 184 Question Id : 496901399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

The fan _____ repaired now by the electrician.

Options :

1. ✖ was

2. ✔ has been

3. ✖ being

4. ✖ is been

Question Number : 185 Question Id : 496901400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fill in the blanks with the appropriate phrase/verb/preposition:

After a long debate, they arrived _____ a conclusion.

Options :

1. ✖ to

2. ✖ of

3. ✖ on

4. ✓ at

Sub-Section Number : 2
Sub-Section Id : 49690124
Question Shuffling Allowed : Yes

Question Id : 496901401 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (186 to 190)

Question Label : Comprehension

Read the following passage and answer questions

At 5 percent, India's economy registered a very slow gross domestic product (GDP) growth rate for the April-June quarter 2019-20. The latest GDP growth rate heightened concerns about slowdown with some apprehending that recession might set in. However, the current GDP figures are no indication of any impending recession, which anyway does not have an accepted-by-all definition. But it generally refers to contraction of a country's economy in two consecutive quarters. In such situations, banks and other financial institutions fail. The US witnessed such a situation in 2008-09. In India, the economy is growing. Only the rate of growth has slowed down, which is a huge setback for the country as it requires an accelerated growth to provide employment to millions entering the job market every year. A slowdown in growth rate would turn the population dividend into an unmanageable burden. The current slide in GDP growth, for four consecutive quarters, is interspersed with a series of policy decisions. Two mega policy decisions, demonetisation in November 2016 and the rollout of the goods and services tax (GST) in July 2017 disrupted the Indian economy. Aimed at greater formalisation of the Indian economy, the twin disruptions struck a big blow to the informal sectors that employ the maximum number of workforce. The policy disruption hangover still continues and is accentuated by the crisis in banking and non-banking financial sectors. This hit the small and medium scale businesses more adversely than expected in the wake of the collapse of Infrastructure Leasing and Financial Services (IL&FS). Money just stopped flowing into the market. The net result was a huge loss of jobs.

Sub questions

Question Number : 186 Question Id : 496901402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

According to the passage, an economy is in recession when

Options :

1. ✗ it shrinks for a quarter
2. ✗ the growth rate reduces to 5%
3. ✓ it recedes for two successive quarters
4. ✗ policies like GST and demonetisation are enforced

Question Number : 187 Question Id : 496901403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

For the April-June quarter of 2019-20, the Indian economy

Options :

1. ☒ grew
2. ☐ receded
3. ☐ was constant
4. ☐ crashed

Question Number : 188 Question Id : 496901404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which factor interrupted the Indian economy during the year 2016-17?

Options :

1. ☐ very low growth rates
2. ☒ demonetisation
3. ☐ high unemployment
4. ☐ crisis in banking

Question Number : 189 Question Id : 496901405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The worst affected party in the wake of GST and demonetisation is

Options :

1. ☐ labour
2. ☐ multinational companies
3. ☒ small and medium scale businesses
4. ☐ the public sector

Question Number : 190 Question Id : 496901406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The main aim of demonetisation and GST is to

Options :

1. ☐ encourage the banking sector
2. ☐ collect more revenue

3. ✓ formalize the Indian economy

4. ✗ lower unemployment

Sub-Section Number : 3
Sub-Section Id : 49690125
Question Shuffling Allowed : Yes

Question Id : 496901407 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (191 to 195)
Question Label : Comprehension

Read the passage below and choose the correct answer .

Environmentalism began as a movement in the 1960s and 1970s. However, humanity's relationship and dependence on the earth for survival has existed since the beginning of time. Many cultures including Native Americans, Aborigines, Africans and South Americans have understood this interconnection with the natural world. Western cultures had a poor understanding of this relationship as they separated themselves from the land through technology and development. Beginning in the nineteenth century, the Industrial Revolution caused many changes; Western people realized their behavior had a negative impact on the environment. In the growing industrial cities of London, New York and Chicago, coal burning factories polluted the air and water while the need for lumber to build factories and homes caused mass deforestation and subsequent destruction of animal life.

On a relatively small scale, groups of people were concerned about the future of the environment. Scientists studied ecological systems while others formed clubs and initiated protests. These concerned people became known as conservationists, a predecessor to the modern environmentalist. Some of the earliest protests against pollution and for the conservation of natural resources and wildlife happened in the late nineteenth century.

In the years proceeding World War II, America experienced an economic boom. New technologies introduced atomic energy, synthetic materials and chemicals, such as pesticides, which led to advancements in agriculture and consumer products. The booming economy allowed the average family to afford a house, automobile and other amenities at soaring rates. Lands outside of cities were bulldozed for suburban development, new factories emitted more pollution due to the production of more goods and larger numbers of cars discharged additional exhaust; "pollution was the price of economic progress"

Sub questions

Question Number : 191 Question Id : 496901408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which culture among the following did not understand the interconnections with the natural environment?

Options :

1. ✗ South American

2. ✓ European

3. ✗ African

4. ✖ Native American

Question Number : 192 Question Id : 496901409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Destruction of animal life was caused by

Options :

1. ✖ the pollution created by the coal burning factories
2. ✖ the introduction of atomic energy
3. ✔ large scale deforestation
4. ✖ the use of pesticides

Question Number : 193 Question Id : 496901410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Who among the following are NOT conservationists?

Options :

1. ✖ Scientists studying ecological systems
2. ✔ Industrialists producing synthetic materials, chemicals and pesticides
3. ✖ Groups of people protesting against pollution
4. ✖ People advocating conservation of natural resources

Question Number : 194 Question Id : 496901411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The western cultures are not connected to the natural world because of

Options :

1. ✔ technology and development
2. ✖ the pollution of water and air
3. ✖ World War-II
4. ✖ the economic boom

Question Number : 195 Question Id : 496901412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which event caused realization in westerners about their behavior towards the environment?

Options :

1. ✖ World War-II
2. ✖ The Economic boom following the Second World War
3. ✔ The Industrial Revolution
4. ✖ Advent of environmentalism in the 1960s

Sub-Section Number :

4

Sub-Section Id :

49690126

Question Shuffling Allowed :

Yes

Question Id : 496901413 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (196 to 200)

Question Label : Comprehension

Read the following passage and answer questions .

On 10 May 1857 the Indian Rebellion started in Meerut. When news of the fighting reached Jhansi, the Rani asked the British political Officer, Captain Alexander Skene, for permission to raise a body of armed men for her own protection; Skene agreed to this. The city was relatively calm in the midst of the regional unrest, but the Rani conducted a Haldi Kumkum ceremony with pomp in front of all the women of Jhansi to provide assurance to her subjects, in the summer of 1857 and to convince them that the British were cowards and not to be afraid of them.

Until this point, Lakshmibai was reluctant to rebel against the British. In June 1857, rebels of the 12th Bengal Native Infantry seized the Star Fort of Jhansi containing the treasure and magazine, and after persuading the British to lay down their arms by promising them no harm, broke their word and massacred 40 to 60 European officers of the garrison along with their wives and children. The Rani's involvement in this massacre is still a subject of debate. An army doctor, Thomas Lowe, wrote after the rebellion characterising her as the "Jezebel of India...the young Rani upon whose head rested the blood of the slain".

Sub questions

Question Number : 196 Question Id : 496901414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The passage asserts that the Rani of Jhansi was _____ to the Britishers in the beginning.

Options :

1. ✖ at loggerheads
2. ✔ subservient
3. ✖ tyrannical

4. ✖ antagonistic

Question Number : 197 Question Id : 496901415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Rani conducted Haldi Kumkum ceremony to assure her followers that _____

Options :

- 1. ✖ they have to be always traditional
- 2. ✖ the city is very much calm
- 3. ✔ there is no need to be frightened of the Britishers
- 4. ✖ she got permission from the British Officers

Question Number : 198 Question Id : 496901416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The Bengal Native Infantry killed the British officers by _____

Options :

- 1. ✖ strength
- 2. ✖ valour
- 3. ✖ wisdom
- 4. ✔ treachery

Question Number : 199 Question Id : 496901417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Thomas Lowe believed that, the Rani of Jhansi _____

Options :

- 1. ✖ was simply misled by the Bengal Native Infantry
- 2. ✔ had a hand in the massacre of the British officers
- 3. ✖ refused to be a part of the massacre
- 4. ✖ threw the blame on somebody else wisely

Question Number : 200 Question Id : 496901418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The antonym of the word 'reluctant' is _____

Options :

1.  willing
2.  uncertain
3.  hesitating
4.  disinclined