Telangana State Council 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: TSICET2022 27th July 2022 Shift 1
Subject Name: TS ICET 2022
Creation Date: 2022-07-28 18:22:13
Duration: 150
Total Marks: 200
Display Marks: 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
Change Font Color: No
Change Background Color: No
Change Theme: No
Help Button: No
Show Reports: No
Show Progress Bar: No

TS ICET 2022

Group Number: 1
Group Id: 63268617
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
Examiner permission: Cant View
Show Progress Bar?: No

Analytical Ability

Section Id: 63268649
(i) Data Sufficiency

(Marks: 20)
Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labelled 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:

(a) Mark choice (1) if the statement (I) alone is sufficient to answer the question, but (II) does not answer the question.
(b) Mark choice (2) if the statement (II) alone is sufficient to answer the question but (I) does not answer the question.
(c) Mark choice (3) if both the statements (I) and (II) are sufficient to answer the question but neither statement alone is sufficient.
(d) Mark choice (4) if both the statements (I) and (II) together are not sufficient to answer the question and additional data is required.

Sub questions

Question Number : 1 Question Id : 6326863330 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
For integers \( p, q, r \), is \( p < q \)?

\[ p, q, r \text{ అనే రిందాలో } p < q \text{ అంకులు?} \]

(i) \( q < p + r \).

(ii) \( p^3 + q^3 + r^3 = 0 \).

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔️ 4

Question Number : 2 Question Id : 6326863331 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Is the positive integer \( p \) divisible by 1155?

1155ఎ ప్రత్యేకని పండితా ఎక్కువ మాటామి?

(i) 165 divides \( p \).

\[ p \text{ యొక్క } 165 \text{ భాగసూత్రి.} \]

(ii) 735 is a factor of \( p \).

\[ p \text{ యొక్క } 735 \text{ అందంగా చాలియేది.} \]

Options:
1. ✗ 1
2. ✗ 2
Question Number : 3  Question Id : 6326863332  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0  Correct Marks : 1  Wrong Marks : 0

How many triangles can be formed using the given points in a plane?

(1) There are 10 points given in the plane.
   అ 10 దిశలలో పేరు సంఖ్యలు ఉన్నాయి.

(2) No three given points are collinear.
    తొద్దులు అతి నాలుగు దిశలలో ఉండదు.

Options :
1. ✖ 1  
2. ✖ 2  
3. ✔ 3  
4. ✖ 4

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Question Number : 4  Question Id : 6326863333  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0  Correct Marks : 1  Wrong Marks : 0
What is the price of a chair?

What is the price of a chair?

(i) The price of a chair and a table is Rs.7500.

(ii) The cost of two chairs is Rs.5000.

Options:
1. 1
2. 2
3. 3
4. 4

Question Number : 5 Question Id : 6326863334 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

What is the value of the odd positive integer \( n \) ?

What is the value of the odd positive integer \( n \) ?

(i) \( 30 < 7n < 45 \)

(ii) \( 75 > 3n > 33 \)

Options:
1. 1
2. 2
3. 3
4. ✗ 4

**Question Number : 6**  
**Question Id :** 6326863335  
**Question Type :** MCQ  
**Option Shuffling :** No  
**Display Question Number :** Yes  
**Is Question Mandatory :** No  
**Calculator :** None  
**Response Time :** N.A  
**Think Time :** N.A  
**Correct Marks :** 1  
**Wrong Marks :** 0

Is 10, a factor of $n + 5$?

$n + 5$ ఎందికి 10 సంఖ్య సంపాదించబడింది?

1. ✗ 1  
2. ✔ 2  
3. ✗ 3  
4. ✗ 4

**Question Number : 7**  
**Question Id :** 6326863336  
**Question Type :** MCQ  
**Option Shuffling :** No  
**Display Question Number :** Yes  
**Is Question Mandatory :** No  
**Calculator :** None  
**Response Time :** N.A  
**Think Time :** N.A  
**Correct Marks :** 1  
**Wrong Marks :** 0
What is the cost of laying an outer circular track around a circular ground?

(1) The width of the track is 3 meters.
   అదన ఉన్న 3 మీటరు.

(2) The cost of laying the track is Rs.500/- per square meter.
   రింటు. నిష్పత్తితో ఉన్న 3 మీటర్లు రూ.500.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 8 Question Id : 6326863337 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
What is the sum of the first 20 terms of an Arithmetic Progression?

అంకీంతో పాటు అనేకం ఎంత?

(I) The common difference of the Arithmetic Progression is 5.
     అంకీంతో పాటు అనేకం ఎంత?

(II) The 5th and the 7th term of Arithmetic Progression are 13 and 17 respectively.
     అంకీంతో పాటు అనేకం 5వ మరియు 7వ ఎండలు ఎంతా ఎంతా 13వ మరియు 17వ.

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 9 Question Id : 6326863338 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
If \( a = 5 \), what is the average of \( a, b \) and \( c \) ?

\[ a = 5, \quad \text{What is the average of } a, b, \text{ and } c? \]

(l) The difference between \( b \) and \( c \) is 8.

\[ b, c \text{ is } 8. \]

(ll) The sum of \( b \) and \( c \) is 19.

\[ b + c \text{ is } 19. \]

Options:
1. ❌ 1
2. ✅ 2
3. ❌ 3
4. ❌ 4

If \( m, n \) are positive integers, is \( mn \) an even number?

\[ m, n \text{ are positive integers, } mn \text{ is even?} \]

(l) \( m + n \) is an even number.

\[ m + n \text{ is even.} \]

(ll) \( m + n \) is an odd number.

\[ m + n \text{ is odd.} \]

Options:
1. ❌ 1
2. ✅ 2
Question Number : 11
Question Id : 6326863340
Question Type : MCQ
Option Shuffling : No
Display Question Number : Yes
Is Question Mandatory : No
Calculator : None
Response Time : N.A
Think Time : N.A
Minimum Instruction Time : 0
Correct Marks : 1
Wrong Marks : 0

In how many days two persons A and B working together can complete a piece of work?

(1) A alone can complete the job in 10 days.
A ఒకే సమయంలో 10 దినాలలో పని పూర్తి చేస్తుంది.

(2) B alone can complete the job in 12 days.
B ఒకే సమయంలో 12 దినాలలో పని పూర్తి చేస్తుంది.

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 12
Question Id : 6326863341
Question Type : MCQ
Option Shuffling : No
Display Question Number : Yes
Is Question Mandatory : No
Calculator : None
Response Time : N.A
Think Time : N.A
Minimum Instruction Time : 0
Correct Marks : 1
Wrong Marks : 0
What is the present age of the father?

ప్రస్తుత ఆయన తలమైన ఆనందం ఎత్తు?

(I) The sum of the present ages of the father and the son is 40.
ప్రస్తుతమైన ఆయన తలమైన ఆనందం ఎత్తు 40.

(II) Five years ago, the fathers age was 5 times that of his son.
చిన్నిగా 5 సంవత్సరాలు అయితే, ఆయన తలమైన ఎత్తు 5 గణితం.

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

What is rate of simple interest?

విత్తన వ్యాపార సామర్థ్యాన్ని?

(I) Principal is Rs.10000.
అధికారం రూ.10000.

(II) Interest is Rs.1280.
పరికర రూ.1280.

Options:
1. ✗ 1
In the rectangle ABCD, which of the triangles AED and AEC has larger area?

\[ \text{ABCD డిగ్రీ రేటు మీదుగా AED మరియు AEC ఎత్తులు ఏందుకు వచ్చును?} \]

(I) DE > EC

(II) AC > AE

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 15 Question Id : 6326863344 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0
What is the lateral surface area of the cone?

What is the rank of the student A in the class?

Options :
1. 1
2. 2
3. 3
4. 4

Question Number : 16 Question Id : 6326863345 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0
Among four people P, Q, R and S, who is the tallest?

P, Q, R ముందు S నాలుగు సంవత్సరాలు మీద ఎత్తైనారు?

(I) R is shorter than Q.
Q రెండవ R కు తనిఖి చెస్తుంది.

(II) Q is taller than P, but shorter than S.
Q వాయిందు P నానంతర, కానీ S నుండి తక్కువ వేయింది.
Six persons A, B, C, D, E and F are sitting around a circular table facing the centre. Who is sitting opposite to B?

అనుకుంటాలను, ఆన్ని ఎయిరి శాంతివంతమైన పెరిగిన ఆన్ని A, B, C, D, E మరియు F అనే ఆన్ని దిశలో పెరిగినా. B ను స్థాపించండి కింది ప్రత్యేకించండి?

(I) A and F are immediate left and right to E respectively.
E ను దిగుమతి నిదానికి అమలా చేయడం ప్రకారం అదనం ప్రతిమకం ను పెరిగిన కొబ్బర్సు ఆన్ని F ను పెరిగినా.

(II) C and B are immediate right and left to D respectively.
D ను దిగుమతి నిదానికి అమలా చేయడం ప్రకారం అదనం ప్రతిమకం ను పెరిగిన కొబ్బర్సు C ను పెరిగినా B ను పెరిగినా.

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Will it be Monday tomorrow?

వారికి వారిదానం వచ్చు?

(I) Sunday is a holiday.
ఐదవారి హైద ఉంది?

(II) It is not a Friday day before yesterday.
అందువల్ల ఎడి ఆపంతు నాడు.

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

What is the number of white balls in the bag?

మాసిక బల్లు కనుండి పండి?

(I) There are 14 balls in the bag.
మాసిక బల్లు 14 ఉంటాం.

(II) Number of black balls in the bag is 10.
మాసిక మాయ బల్లు ఎడారు 10.

Options :
1. ✗ 1
2. ✔ 2
In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.

21-30 త్రై పాటలు లేదా కౌంటర్ తో కాదు (రెండు సంఖ్యలు నిషేధం) నిషేధం కురుమి. రెండు పాటలలో త్రి పాటలు మరింతకు నిషేదం కనిపిస్తాయి అంటే రెండు సంఖ్యలు నిషేదం కురుమి అంటే త్రి పాటలలో త్రి పాటి తిరిగి సంఖ్యలు నిషేదం కురుమి.

LKJ : ONM :: DEG : ____

(1) GHI
(2) GIJ
(3) HIJ
(4) GHJ

Options :
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4
In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.

21-30 క్షేత్రంలో ప్రతి పాటి పాటి సమానం చేయడానికి (చెట్టు సరి
చెట్టుల సమానం చేయడానికి) పాటలేని రద్దించండి. అంటే పాటలేని
చెట్టులను పాటలేని చెట్టులు తీసించండి. అం చెట్టును అంటే చెట్టును తీసించండి.

ACDF : CGJN :: BEHI : ___

(1) DJNQ
(2) DINQ
(3) DINR
(4) DHNQ

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 23 Question Id : 6326863352 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0
In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.

21-30 మీరు కూడా మహామునరుల సమ్మేళనం సాధనం (అరుదు సహా సంరక్షణ సాధనం పెంచి) నిర్ధారించండి. వారు ఆధిక్యం అలా విస్తరించడం కాగా నిర్ణయం కాగా చేయండి. అందరో అనుష్ఠానాలకు సాధారణంగా మనం సహాయం చేయాలి బాగా నిర్ణయం చేసాలి.

___ : USE :: SAT : KSL

(1) AYK
(2) BZL
(3) CAM
(4) DBN

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Options:
1. ✗ 1
2. ✅ 2
3. ✗ 3
4. ✗ 4

In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.
Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.
In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.

21-30 లోని దశలు రేయింది అని అంచినవి సంఖ్య రేయింది (అన్ని లేదా కొద్ది రేయింది నామాంశాలు నామాంశాలు రేయింది). అట్టు శిరింది శిరింది అట్టు శిరింది కాని శిరింది రేయింది. అట్టు యెంది బాగా అట్టు రేయింది అట్టు రేయింది అట్టు రేయింది.

BRONZE : 40 :: GOLD : ____

(1) 19
(2) 50
(3) 45
(4) 61
In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.

21-30 మాదిరిగా మాదిరిగా మాదిరిగా మాదిరిగా మాదిరిగా (అండులే దినున్న మాదిరిగా మాదిరిగా మాదిరిగా) మొదలం చేయండి. ఈ తోండి రంగుప్రకారం

MK : ____ :: JH : 9

(1) 18
(2) 16
(3) 14
(4) 12

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ☑ 4

Question Number : 29 Question Id : 6326863358 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.

21-30 మాదిరిగా మాదిరిగా మాదిరిగా మాదిరిగా (అండులే దినున్న మాదిరిగా మాదిరిగా మాదిరిగా మాదిరిగా) మొదలం చేయండి. ఈ తోండి రంగుప్రకారం

MK : ____ :: JH : 9

(1) 18
(2) 16
(3) 14
(4) 12

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ☑ 4

Question Number : 29 Question Id : 6326863358 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.
EK \(16\) : IO \(24\) :: ____ : YQ \(16\)

(1) \(\text{UM} \ 8\)
(2) \(\text{VM} \ 9\)
(3) \(\text{UN} \ 9\)
(4) \(\text{UM} \ 7\)

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

In the questions 21-30, each contains two pairs of groups (of letters or letters and numbers). The pattern that appears in one pair should be followed by the other pair also. Observe the pattern carefully and fill in the blanks appropriately.

21-30 పండు కలు (ప్రాంతోత్తరుడు సుమారు చేస్తుంది) తెలుగు తెలుగు మానవుడు కోరి, అంటే రెండు లేదా అదిమిన్న మరియు చాటించిన విషయం ఉంటుంది. లేక సత్యం ప్రకటించడానికి మాత్రమే అదిబంధం ఉంది. అంటే కాను ఏమిటా ప్రతిపాదించి ఎంత రోహించారు.

CET : ____ :: DOG : 420

(1) 380
(2) 360
(3) 320
(4) 300
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number : 3
Sub-Section Id : 632686371
Question Shuffling Allowed : Yes

Question Number : 31 Question Id : 6326863360 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

42, 49, 60, 73, 88, 109, 132

(1) 60
(2) 88
(3) 73
(4) 130

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 32 Question Id : 6326863361 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

42, 49, 60, 73, 88, 109, 132

(1) 60
(2) 88
(3) 73
(4) 130
Moon, Mars, Mercury, Venus, Jupiter, Neptune, Uranus

(1) Uranus
(2) Jupiter
(3) Mercury
(4) Moon

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 33 Question Id: 6326863362 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0
Correct Marks: 1 Wrong Marks: 0

Note: In questions numbered 31 to 35 pick the odd thing out.

Knife, Sword, Hammer, Needle, Thread, Axe, Blade, Nail

(1) Thread
(2) Hammer
(3) Nail
(4) Sword

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 34 Question Id: 6326863363 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum
Note: In questions numbered 31 to 35 pick the odd thing out.

60, 90, 150, 210, 330, 390, 510, 630

(1) 60
(2) 90
(3) 150
(4) 630

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Note: In questions numbered 31 to 35 pick the odd thing out.

January, March, May, June, July, August, October, December

(1) March
(2) May
(3) July
(4) June

Options:
1. ✗ 1
Question Number : 36  Question Id : 6326863365  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0  Correct Marks : 1  Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

7, 2, 12, 6, 17, 10, 22, ____

(1) 27
(2) 14
(3) 32
(4) 37

Options :
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 37  Question Id : 6326863366  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0  Correct Marks : 1  Wrong Marks : 0
Note: Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

2, 6, 12, 20, ___, 42, 56, 72

(1) 28
(2) 30
(3) 36
(4) 40

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Correct Marks: 1 Wrong Marks: 0
1, 9, 36, 100, ___, 441, 784

(1) 225
(2) 289
(3) 324
(4) 361

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Note: Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

0, 3, 8, 15, 24, ___, 48

(1) 27
(2) 30
(3) 35
(4) 41

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4.

Question Number : 40
Question Id : 6326863369
Question Type : MCQ
Option Shuffling : No
Display Question Number : Yes
Is Question Mandatory : No
Calculator : None
Response Time : N.A
Think Time : N.A
Minimum Instruction Time : 0
Correct Marks : 1
Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

\[ \sqrt{4}, \sqrt{18}, \sqrt{48}, \sqrt{100}, \sqrt{180}, \sqrt{294}, \ldots \]

(1) \( \sqrt{388} \)
(2) \( \sqrt{448} \)
(3) \( \sqrt{528} \)
(4) \( \sqrt{676} \)

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 41
Question Id : 6326863370
Question Type : MCQ
Option Shuffling : No
Display Question Number : Yes
Is Question Mandatory : No
Calculator : None
Response Time : N.A
Think Time : N.A
Minimum Instruction Time : 0
Correct Marks : 1
Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

\[ \sqrt{4}, \sqrt{18}, \sqrt{48}, \sqrt{100}, \sqrt{180}, \sqrt{294}, \ldots \]

(1) \( \sqrt{388} \)
(2) \( \sqrt{448} \)
(3) \( \sqrt{528} \)
(4) \( \sqrt{676} \)
8, 9, 5, 14, -2, 23, -13, ____

(1) 36
(2) -36
(3) 39
(4) -43

Options:
1. ✔ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Question Number : 42 Question Id : 6326863371 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గాను ఉంటారా : 36 నుండి 45 వరకు నిలువు బదులుగా అనుమతించిన రెండు పాటులు, కాని మూడు పాటులు దానిపై మరింత వివరణలు నిలువు కావడం లేదు.

\[
\begin{array}{ccccccc}
1 & 8 & 27 & 125 & 216 & 343 \\
2 & 5 & 10 & 26 & 37 & 50 \\
\end{array}
\]

(1) \(\frac{36}{13}\)
(2) \(\frac{47}{20}\)
(3) \(\frac{63}{26}\)
(4) \(\frac{64}{17}\)

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

12, 36, 80, 150, 252, 392, ____

(1) 426
(2) 478
(3) 524
(4) 576

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
13, 221, 17, 19, 437, 23, 23, ____ , 29

(1) 690  
(2) 369  
(3) 667  
(4) 643

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 45  Question Id : 6326863374  Question Type : MCQ
Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No
Calculator : None  Response Time : N.A  Think Time : N.A
Minimum Instruction Time : 0
Correct Marks : 1  Wrong Marks : 0

Note: Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

8, 18, 38, 78, 158 , ____, 638

(1) 248  
(2) 268  
(3) 318  
(4) 328

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
A company produces five types of cars A, B, C, D and E. The below table shows number of cars of these types produced during the years 2016-2020 by this company. Based on this, answer questions 46-48.

<table>
<thead>
<tr>
<th>Year</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>80</td>
<td>85</td>
<td>95</td>
<td>120</td>
<td>60</td>
</tr>
<tr>
<td>2017</td>
<td>90</td>
<td>80</td>
<td>100</td>
<td>150</td>
<td>80</td>
</tr>
<tr>
<td>2018</td>
<td>95</td>
<td>100</td>
<td>120</td>
<td>250</td>
<td>90</td>
</tr>
<tr>
<td>2019</td>
<td>120</td>
<td>120</td>
<td>160</td>
<td>280</td>
<td>95</td>
</tr>
<tr>
<td>2020</td>
<td>180</td>
<td>140</td>
<td>175</td>
<td>290</td>
<td>65</td>
</tr>
</tbody>
</table>

Sub questions
The percentage of increase in the production of cars of type A in the year 2020 in comparison with the year 2016?

2016 నంబరులు, 2020 నంబరులు కారుల ప్రత్యేకిత నంబరులకు అవధి నంబర్

A నంబరులు తగిన అంశాల రాకులు

(1) 100
(2) 80
(3) 120
(4) 125

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 47 Question Id : 6326863377 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

(b) Data Analysis

The total number of cars of type D produced during the years 2016-2020 is

2016-2020 నంబరులు కారుల ప్రత్యేకిత నంబరులకు అవధి నంబర్

(1) 1080
(2) 1090
(3) 990
(4) 1190
The ratio of the numbers of cars of types C and D produced during the years 2016-2020 is:

2016-2020 సంఖ్యలు కూడా అయిన సంఖ్యల యొక్క వ్యాప్తి:

(1) 64 : 108
(2) 65 : 109
(3) 64 : 109
(4) 60 : 109
(b) **Data Analysis**

The following bar diagram gives information of biscuits exported by a company (in lakhs of tins) from 2005-2011. Based on this, answer the questions from 49-51.

Sub questions

Question Number : 49 Question Id : 6326863380 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0
The year that registered highest percentage of growth in exports over its preceding year is

1) 2011  
2) 2009  
3) 2008  
4) 2007

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 50  Question Id: 6326863381  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Is Question Mandatory: No  Calculator: None  Response Time: N.A  Think Time: N.A  Minimum Instruction Time: 0  Correct Marks: 1  Wrong Marks: 0

(b) Data Analysis

(Marks: 10)
Which year witnessed lowest increase in exports over its previous year?

(1) 2006  
(2) 2007  
(3) 2009  
(4) 2008

Options:
1. ✗ 1  
2. ✔ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 51  Question Id : 6326863382  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0
Correct Marks : 1  Wrong Marks : 0

(b) Data Analysis

(Marks : 10)
The percentage increase in the exports in 2009 over its preceding year, corrected to two decimal places, is

2009 తయార్యాలకు ఏమ్మూరి రాఖింది నడపెల్లరాచ మారుతుంది తయార్యాలకు ఏమ్మూరి (తయార్యాలకు ఏమ్మూరి రాఖింది)

(1) 10.83
(2) 12.90
(3) 15.38
(4) 19.23

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 7
Sub-Section Id : 632686375
Question Shuffling Allowed : Yes

Question Id : 6326863383 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Question Numbers : (52 to 55)
In a survey of the games Cricket, Football and Badminton played by 3000 students in their intermediate, the following data emerged.

(i) 15% of the students played all the three games;

(ii) 750 students played only 2 games

(iii) 730 students played only Cricket.

Based on this data answer the questions from 52 to 55.

Sub questions

(b) Data Analysis (Marks : 10)
The total number of students who played Football alone and Badminton alone is

ఫోటోట్ తొలి మరియు బాడింటన్ తొలించిన ఎంతో స్కూలు వాస్తవం

(1) 1070
(2) 1170
(3) 123
(4) 1320

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 53 Question Id : 6326863385 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

(b) Data Analysis (Marks : 10)

మాట్లాడే విశ్లేషణ (మార్క్స్ : 10)
If the number of students who played cricket alone and badminton alone are equal, then the number of students who played football alone is

(1) 360  
(2) 340  
(3) 310  
(4) 270

Options:
1. ✗ 1  
2. ✅ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 54 Question Id : 6326863386 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0  
Correct Marks : 1 Wrong Marks : 0  

(b) Data Analysis (Marks : 10)  
(విశ్లేషణానికి ప్రశ్న) (మార్కులు : 10)
How many students played only one game?

వింతలో ఒకే నుండి రెండు గేమ్ రేఖ్యా సంఖ్యలు ఉంది?

(1) 2250
(2) 1950
(3) 1800
(4) 1700

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

(b) **Data Analysis**

How many students played at least two games?

సంఖ్యల్లో ఉన్నపోవడానికి అందరించే స్ట్రాటిస్టికాలు?

(1) 300
(2) 1100
(3) 1175
(4) 1200

Options:
1. ✗ 1
Coding and Decoding Problems (Marks: 10)

For the letters of the English alphabets A, B, ... Z numbered as 1, 2, ... 26, a code is designed by coding the letter with number $n$ by letter $c(n)$ which is defined as under:

$$c(n) = \begin{cases} 
  n+17, & \text{for } 1 \leq n \leq 9 \\
  n-1, & \text{for } 10 \leq n \leq 18 \\
  n-18, & \text{for } 19 \leq n 
\end{cases}$$

For decoding the reverse process is used.

Based on this data answer the questions 56 to 60.
What is the code for COVID?

COVID కు కోడు ఎంతగా ఉంటే?

(1) TNDZU
(2) TENYU
(3) TFGXU
(4) TDHWU
Which word is coded as UVKBR?

UVKBR ఎందుకు ముందు ఇచ్చినది?

(1) PARTY
(2) DIRTY
(3) DELTA
(4) DRAFT

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 58 Question Id : 6326863391 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Coding and Decoding Problems (Marks: 10)
దిద్దిని దీర్ఘంతరం సమాచారం (మార్కులు: 10)

What is the code for PROFIT?

PROFIT రెండు సమాచారాలు ఉండవచ్చు?

(1) OPMVYB
(2) ORNUXB
(3) OSPWZB
(4) OQNWZB

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
Which word is coded as BQRUV?

BQRUV ఎక్కడ ఎందుకు రెండు రెండు?

(1) BLADE
(2) TRADE
(3) TRACE
(4) BLAME
What is the code for the word ELEGANCE?

ELEGANCE ఎలెంగేస్?

(1) VKVXRMTTV
(2) VLVYSNTV
(3) VMVZQRTV
(4) VNVWXLTV

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 9
Sub-Section Id : 632686377
Question Shuffling Allowed : Yes

Question Number : 61 Question Id : 6326863394 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Coding and Decoding Problems (Marks: 10)
రికాడింగ్ అండ్ డిస్కోడర్ ప్రశ్నలు (మార్క్స్ : 10)

If RECORD is coded as UHFRUG, the code for ENTRANCE is

RECORD అంచ UHFRUG గా రికాడ్ చేయబడింది, ENTRANCE అంచ ఈ రీతి

(1) HPUVDPCH
(2) HRUVCRDH
(3) HQVWDOEH
(4) HQWUDQFH

Options:
1. ✗ 1
Coding and Decoding Problems  
(Marks: 10)

In a certain code the words PRIME and TOWER are respectively coded as FNJSQ and SFXPU, then in the same code the word BEGIN is coded as

(1) CQHJO
(2) OJHFC
(3) OJHCQ
(4) CFHJM

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Coding and Decoding Problems  
(Marks: 10)
If TSICET is coded as VQKAGR, then BACKWARD is coded as

TSICET యొక్క VQKAGR ను శిఫర్ చేసేందుకు, BACKWARD యొక్క శిఫర్

(1) DYEIXYTB  
(2) DYEIYXTB  
(3) DYEIYYTB  
(4) DYEIYYSB

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Coding and Decoding Problems  (Marks: 10)
శిఫర్ చేసేందుకు ప్రపంచాన్ని ప్రారంభించండి  (మార్క్స్: 10)
In a code language if GALAXY is coded as DXIXUV, then the code word for STAR is

(1) PQXN
(2) PQXO
(3) PQXM
(4) PQOX

Question Number : 65 Question Id : 6326863398 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Coding and Decoding Problems (Marks: 10)

ఎంకికు, ఎంకిక ఎంకింగ్ రెండు వర్గాల విధానం (మాటల్లో : 10)
If SHARE is coded as 43256 and ARRIVE is coded as 255176, then the code for SHIVER is

\[
\text{SHARE} \Rightarrow 43256 \quad \text{and} \quad \text{ARRIVE} \Rightarrow 255176 \quad \text{therefore,} \\
\text{SHIVER} \Rightarrow 47365
\]

Options:
1. 431765  
2. 427165  
3. 421365  
4. 47365

Sub-Section Number : 10  
Sub-Section Id : 632686378  
Question Shuffling Allowed : Yes

(d) Date, Time & Arrangement Problems  
(సాధనతి, సమయం, సాధన సంపన్నం)  
(Marks : 10)
If June 23, 2015 is Thursday, then the day on November 10, 2020 is

23 జూన్, 2015 తేదీ, 10 నవ‌మ్బర్, 2020 తేదీ ఉంది

(1) Tuesday తెలుగులో
(2) Wednesday వర్చసన్
(3) Thursday మార్చి
(4) Friday పర్యాయం

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems (Marks : 10)
సంవత్సరం, సంవత్సరానికి, అతిప్రతి సంయోగము (మార్క్స్ : 10)
The acute angle between the two hands of a clock when it shows 4:15 pm (in degrees)

సమస్య: 4:15 అంటే మేక్కర్టా సమయంలో దిశలో వేయడానికి దాని మాత్రమే మిగిలి ఉంటే ఎంతో (దిగిలింగు)

(1) 45
(2) 36
(3) $37 \frac{1}{2}$
(4) $67 \frac{1}{2}$

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems  (Marks: 10)

సమస్య: ప్రాంగణం, సమాచార సాధనాలు  (మార్కస్: 10)
A clock strikes 2, 4, 6, ..., 24 times when the time is 1, 2, 3, ..., 12 (am or pm). Then the number of times it strikes between 10:30 am on a day and 1:40 pm next day is

(1) 312
(2) 330
(3) 348
(4) 360

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

(d) Date, Time & Arrangement Problems
(Marks : 10)
A woman introduces a man as the son of the brother of her mother.

How is the man related to the woman?

(1) Son
(2) Uncle
(3) Cousin
(4) Nephew

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems (Marks: 10)
If the first day of a non leap year was Sunday, then which was the last day of that year?

నంది సంవత్సరాల రోజువాడులు సంవత్సరాలలో సూర్యాంగం రోజు ముందు ఉంటాయి. అంటే రోజులు సంవత్సరాలలో సూర్యాంగం రోజు ముందు ఉంటాయి?

1. Tuesday
2. Sunday
3. Saturday
4. Friday

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 71 Question Id : 6326863404 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems (Marks : 10)
Reaching the place of meeting on Monday 15 minutes before 8:30 AM, Ram found himself half an hour earlier than Shyam who was 40 minutes late. What was the scheduled time of the meeting?

(1) 8:25 am
(2) 8:15 am
(3) 8:10 am
(4) 8:05 am

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

(d) Date, Time & Arrangement Problems (Marks : 10)
A, B, C, D and E sit around a round table facing the centre. A sits between E and B, D sits immediate right of C. If B sits between A and D, then who is immediate right of E?

A, B, C, D, E అంటే వైషాలు వైపు వైషాలు చెందుతుంటాం చెందుతుంటాం. E, B అంటే A ; C అంటే చెందుతుంటాం D అంటే చెందుతుంటాం. A అంటే D అంటే B అంటే C అంటే E అంటే చెందుతుంటాం అంటే చెందుతుంటాం?

(1) C
(2) A
(3) B
(4) D

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems  (Marks : 10)
తేదీ, సమయం, సమస్య సాధనాలు  (మార్క్స్ : 10)
If the symbols △, □, ⋄, ▼ stand for the arithmetical operations of addition, subtraction, multiplication and division respectively, then

\[
\frac{1 △ (4 □ 2)}{(5 ◊ 2) ▽ (6 △ 3)} =
\]

△, □, ⋄, ▼ అనే సంఖ్య అనే అవసర కాని తినకాలే నిర్ణయించాలని,
నిర్ధిష్టంగా, కొనసాగ మిగులు ఉండాలంటివి, అనుకుంటుంది,

\[
\frac{1 △ (4 □ 2)}{(5 ◊ 2) ▽ (6 △ 3)} =
\]

(1) 0  
(2) 1  
(3) 2  
(4) 3

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

(d) Date, Time & Arrangement Problems  (Marks : 10)
సంఖ్య, కాలము, విస్థాపన సమస్యలు  (మాటలు : 10)
If + represents division, − represents addition, 
× represents subtraction and ÷ represents multiplication, then

\[ 7 \div 3 - 5 \times 8 + 2 = \]

\[ + \text{ రాంధరించండి, } - \text{ రాంధరించండి సుమారు నం, } \times \text{ రాంధరించండి నొక్రియులు నం, } \div \text{ రాంధరించండి నం, నం నంపిస్తుంది,} \]

\[ 7 \div 3 - 5 \times 8 + 2 = \]

(1) 20
(2) 12
(3) 22
(4) 9

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 75 Question Id : 6326863408 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems (Marks : 10)
If $\alpha$ stands for $+$, $\beta$ stands for $=$, $\gamma$ stands for $<$ and $\delta$ stands for $>$, then $a \alpha b \beta (2c)$ and $b \gamma c$ implies

$\alpha + \alpha = \alpha$, $\beta = \alpha$, $\gamma < \alpha$, $\delta > \alpha$


(1) $a \beta c$
(2) $a \alpha e \beta \beta$
(3) $a \delta b$
(4) $a \delta c$

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✖ 4

Mathematical Ability

Section Id : 63268650
Section Number : 2
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 75
Number of Questions to be attempted : 75
Section Marks : 75
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 632686379
Question Shuffling Allowed : Yes

Question Number : 76 Question Id : 6326863409 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
If \( \frac{(12)^3 \cdot (20)^3 \cdot (45)^3}{(6)^3 \cdot (15)^3 \cdot (10)^2} = 2^\alpha \cdot 3^\beta \cdot 5^\gamma \), then \( 2\alpha + 3\beta + 5\gamma = \)

\[
\frac{(12)^3 \cdot (20)^3 \cdot (45)^3}{(6)^3 \cdot (15)^3 \cdot (10)^2} = 2^\alpha \cdot 3^\beta \cdot 5^\gamma \implies 2\alpha + 3\beta + 5\gamma =
\]

(1) 29  
(2) 35  
(3) 49  
(4) 55  

Options:
1. ✗ 1  
2. ✗ 2  
3. ✔ 3  
4. ✗ 4
\[
\frac{4 \cdot 3^{n+1} + 8 \cdot 3^{n-1}}{3^{n+2} + 5 \left(\frac{1}{3}\right)^{1-n}} =
\]

(1) \(\frac{11}{8}\)

(2) 2

(3) 3

(4) \(\frac{17}{8}\)

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 78 Question Id : 6326863411 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability
అధికార్థిత నివాసాధనం
(Marks : 35)
A mixture of 40 litres has milk and water in the ratio 5 : 3. If we add 2 litres of milk to that mixture, then the ratio of water to milk in the new mixture is

40 లిట్రుల మిశ్రణంలో 5 : 3 అంశాలు ఉన్నాయి. అంచెక లేదా ప్రతి ఎక్కువ మిలకు మిలకునుగా మిగిలిన మిలకు మిలకునుగా మిలకు మిలకును 2 లిట్రుల మిలకు మిలకును.

(1) 5 : 9
(2) 9 : 5
(3) 25 : 17
(4) 17 : 25

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 79 Question Id : 6326863412 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)  
అరిథ్మెటికల్ అభివృద్ధి (మార్క్స్ : 35)
20 litres of a mixture contains milk and water in the ratio 3 : 1. How much litres of milk must be added to this mixture so as to have milk and water in the ratio 4 : 1?

20 లిటర్లు మిశ్రణం కల్పించబడింది మిలకుడు మరియు పాటిడి పరిమాణం 3 : 1. ఈ మిశ్రణం వేయడానికి ఎత్తు మిలకుడు పాటిడి పరిమాణం 4 : 1 చేసేవాడని ఎత్తు మిలకుడు పాటిడి పరిమాణం ఎలా కలుపవచ్చు?

(1) 5
(2) 6
(3) 4
(4) 3

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 80 Question Id : 6326863413 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అరిథ్మెటికల్ అధికారిత ప్రయోగం (మార్క్స్ : 35)
If $\sqrt{12 + \sqrt{140}} = \sqrt{x} + \sqrt{y}$ and $x < y$, then $3y - 2x =$

$\sqrt{12 + \sqrt{140}} = \sqrt{x} + \sqrt{y}$ and $x < y$, then $3y - 2x =$

1. 1
2. 11
3. 21
4. 31

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 81 Question Id : 6326863414 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability
అరిథ్మెటికల్ సాధ్యత
(Marks : 35)
If \( x = 3 + \sqrt{8} \), then \( x^4 + \frac{1}{x^4} = \)

\[
x^4 + \frac{1}{x^4} = \left(3 + \sqrt{8}\right)^4 + \frac{1}{\left(3 + \sqrt{8}\right)^4}
\]

(1) \( 34 + 4\sqrt{2} \)
(2) \( 34 \)
(3) \( 1024 + \sqrt{8} \)
(4) \( 1154 \)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 82  Question Id : 6326863415  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0  Correct Marks : 1  Wrong Marks : 0

i) Arithmetical Ability  (Marks : 35)
అధికారిత శాస్త్రికత (బాష్పాలము : 35)
The largest 4 digit number when divided by 3 or 4 or 5 leaves remainder 2 is

(1) 9962
(2) 9972
(3) 9982
(4) 9992

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 83 Question Id : 6326863416 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability  (Marks : 35)  
అనియత సాధనాలు  (విఫలం : 35)
Which one of the following is divisible by 12?

1) 820426
2) 835246
3) 742564
4) 926028

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 84 Question Id : 6326863417 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
ii) Arthematica Sajagavali (Marks : 35)
If the GCD of two numbers is 53 and if their sum is 636 and if both are more than 53, then the larger of the two numbers is

(1) 371
(2) 477
(3) 583
(4) 265

Options :
1. 1
2. 2
3. 3
4. 4

Question Number : 85 Question Id : 6326863418 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability
   అరిథ్మెటికల్ ప్రశ్నాంశలు
   (Marks : 35)

   (వివరాంగం : 35)
If square tiles of same size (each of side $n$ cm) are to be used to pave the floor of dimensions 4.96m x 1.86m completely, then the largest value (in cm) of $n$ is

4.96 m $\times$ 1.86 m. రేకేం థింగు నించి ఎర్డు మామలుగా గా ఉంది నిధానం
(4.96 మీటర్లు గా ఇందులో నించి n మీటర్లు.) అందుకే నిధానం తీసుకుంటాం. కాబట్టి, $n$
మిమీ మిమీ వాడండి (నించి n మీటర్లు)

(1) 31
(2) 62
(3) 64
(4) 93

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 86 Question Id : 6326863419 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability
అరీంగితం ప్రభావం
(Marks : 35)
(మాధ్యమమె : 35)
2.3\bar{4} =

(1) \frac{211}{90}
(2) \frac{21}{9}
(3) \frac{211}{9}
(4) \frac{210}{99}

Options:
1. \checkmark 1
2. \checkmark 2
3. \checkmark 3
4. \checkmark 4

i) Arithmetical Ability

\text{అరిధేటిశాయ పిండానేటీ}

\[1\frac{2}{3} + 4\frac{5}{6} + 7\frac{8}{9} + 10\frac{11}{12} = \frac{m}{n}\] with \(GCD (m, n) = 1\) then \(m - n = \)

\[1\frac{2}{3} + 4\frac{5}{6} + 7\frac{8}{9} + 10\frac{11}{12} = \frac{m}{n}\],  
\(GCD (m, n) = \text{n.ి. స..} = 1\)  
\(m - n = \)

(1) 875
(2) 947
(3) 885
(4) 957

Options:
1. \checkmark 1
2. 2
3. 3
4. 4

Question Number : 88 Question Id : 6326863421 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
(సంఖ్యలు విశ్లేషణ)
(The least among the numbers $\frac{2}{5}, \frac{2}{3}, \frac{1}{2}, \frac{3}{4}$ is)

\[ \frac{3}{5}, \frac{2}{3}, \frac{1}{2}, \frac{3}{4} \]

(1) \[ \frac{3}{5} \]
(2) \[ \frac{2}{3} \]
(3) \[ \frac{1}{2} \]
(4) \[ \frac{3}{4} \]

Options :
1. 1
2. 2
3. 3
4. 4

Question Number : 89 Question Id : 6326863422 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
(సంఖ్యలు విశ్లేషణ)

The sum of the largest and the smallest numbers among $\frac{3}{4}, \frac{4}{5}, \frac{2}{3}, \frac{5}{6}$ is

$\frac{3}{4}, \frac{4}{5}, \frac{2}{3}, \frac{5}{6}$ ల ప్రధానమైన తరచు మరియు సౌత్తిల్లి ప్రధానమైన రాశుల మినమైన రాశుల సంఖ్యల సంపాదించడానికి మిగిలిన సంఖ్యలు

(1) $\frac{3}{4}$
(2) $\frac{2}{3}$
(3) $\frac{4}{5}$
(4) $\frac{5}{6}$

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 90 Question Id : 6326863423 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అరిథ్మెటిక్ ఆబిలిటీ (మార్క్స్ : 35)
The salary of a person was increased by 20% and then reduced by 10%. What is the net change in his salary?

సాధారణంగా శేషం 20% తగిన అది 10% కు హిస్సు చేయబడింది, తోడ్డి శేషం నిల్లే కాలం చాలా ఉంది?

(1) Decreased by 12%.
   12% వపసితే.
(2) Increased by 10%.
   10% విస్తరితి.
(3) Decreased by 8%.
   8% వపసితే.
(4) Increased by 8%.
   8% విస్తరితి.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 91 Question Id : 6326863424 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability
   అంశాలం ప్రాంగణం
   (Marks : 35)
When 30 is subtracted from 120% of a number, the result is itself. What was that number?

హెన్ని జాత్రా మాత్రమే 120% వైనా 30 మంచిని వచ్చి ఏముందే మాత్రం?

1. 120
2. 180
3. 150
4. 300

Options :
1. ✗ 1
2. ✗ 2
3. ✔️ 3
4. ✗ 4

Question Number : 92 Question Id : 6326863425 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అరథమిటించే శక্তి (మార్క్స్ : 35)
A bicycle is sold for Rs.7938 and the merchant gets a profit of 8%, then the cost price of the bicycle, in rupees is

(1) 7350
(2) 7400
(3) 7450
(4) 7500

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 93
Question Id : 6326863426
Question Type : MCQ
Option Shuffling : No
Display Question Number : Yes
Is Question Mandatory : No
Calculator : None
Response Time : N.A
Think Time : N.A
Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability
(Marks : 35)
The marked price of an article is Rs. 480. The shopkeeper allows a discount of 10% and gains 8%. If no discount is allowed, what is the gain percentage?

The cost price of an article is Rs. 480. The shopkeeper allows a discount of 10% and gains 8%. If no discount is allowed, what is the gain percentage?

(1) 20%
(2) 16%
(3) 15%
(4) 24%

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 94 Question Id : 6326863427 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
ii) Telugu Language (Marks : 35)
A, B, C are partners in a business. If A invests in a business half as much as B and B invests twice as much as C, then the share of C in a profit of Rs.17640 at the year end in rupees, is

వెబు సంభారంలో A, B, C యొకే రవాణా. అ మొత్తంలో A విశేషం రవాణం బయటం, B విశేషం రవాణం కోసం మాత్రమే C విశేషం రవాణం B సారి వాటి
తాబవచే జట్టు. హామీ మొత్తం రవాణం 17460 రవాణం C జట్టు కనబడిన రవాణం

1. 4410
2. 6615
3. 2205
4. 8820

Options:
1. ✔
2. ✗
3. ✗
4. ✗

Question Number : 95 Question Id : 6326863428 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అనిమితం నియంత్ర పంచ (పరిశీలన : 35)
A started a business by investing Rs.12.5 lakhs. After 3 months B joined the business with some capital. If at the end of 9 months from the beginning they shared the profits in the ratio 25 : 24, then the capital of B in the business, in lakhs of rupees, is

(1) 10
(2) 15
(3) 21
(4) 18

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 96 Question Id : 6326863429 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability
( Marks : 35)
(అంధకార దృశ్యాన్ని ) (అంధకార దృశ్యాన్ని : 35)
Two taps A, B can fill a cistern in 8, 12 hours respectively. Both are opened at the same instant and after x hours tap B is stopped and tap A continued. If the total time taken to fill the cistern is 5 hours, then x =

సపట్టండి A, B సమత్వంగా వేసిన వాతావరణం 8, 12 గంటలుగా నిషేధం చేసుకోవాలి. వపట్టండి సపట్టండి వాతావరణం x గంటలు నిషేధం చేసుకోవాలి. ప్రత్యేకంగా వాతావరణం 5 గంటలు వేసిన, x =

(1) 3  
(2) $3\frac{1}{2}$  
(3) 4  
(4) $4\frac{1}{2}$  

Options:
1. ✗ 1  
2. ✗ 2  
3. ✗ 3  
4. ✔ 4

Question Number : 97 Question Id : 6326863430 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability  
(అరిథ్మెటికాల సామర్థము)  
(Marks : 35)
A tap A can fill a tank in 4 hours and tap B can fill it in 6 hours. Both are opened simultaneously. It took 48 minutes more to fill the tank due to a small hole at the bottom of the tank. Then the time, in hours, in which the hole can empty a full tank is

ముఖ్తాంకంగా ఉండే A, 4 మధ్యబడి ఎవరు, ఉండి B, 6 మధ్యబడి ఎవరు. ఈ నిష్పత్తిలో సాఫిత ఉండవాళ్ళ పదార్థాలు 40 మిన్టులు నిష్పత్తిలో ఉంటాయం. ఉండటం నిష్పత్తి పరిమిత మినుసరోజు ఉంటాయం (మధ్యబడి)

(1) 8 hours 30 min 8 మంది 30 మిన్టులు
(2) 8 hours 48 min 8 మంది 48 మిన్టులు
(3) 9 hours 12 min 9 మంది 12 మిన్టులు
(4) 9 hours 36 min 9 మంది 36 మిన్టులు

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 98 Question Id: 6326863431 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0
Correct Marks: 1 Wrong Marks: 0

i) Arithmetical Ability (Marks: 35)
సంఖ్యాశాస్త్ర సంపండి (మార్క్: 35)
If a car is travelling with a speed of 48 kmph covers $\frac{3}{4}$th of the distance in 3 hours 15 minutes, then the total distance (in km) is

(1) 156
(2) 195
(3) 208
(4) 216

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
A man takes 12 hours to walk from A to B and to ride from B to A. If he walks both ways he needs 3 hours more, then the time, in hours, that is required by him to ride both ways is

సాధనం: A నుండి B ని చేసేందుకు లేదా మరియు B నుండి A నుండి లేదా చేసేందుకు 12 కాలం తయారు చేసాం. అతితో మరియు మరియు ఇది వచ్చింది 3

c) 9

Options:
1. 10
2. $9\frac{1}{2}$
3. 9
4. $9\frac{1}{2}$
A and B can complete a work together in 16 days while B and C together can complete it in 24 days. If A, B, C work together they can finish the work in 12 days. The number of days required for A alone can complete that work is

A, B అంటే సంయుక్తంగా 16 దినాలలో పని చేసేవారు. తరువాత B, C అంటే సంయుక్తంగా 24 దినాలలో పని చేసేవారు. A, B, C అంటే సంయుక్తంగా, అతడిని ఆతడిని మినమైన 12 దినాలలో పని చేసేవారు. అ సమయంలో అవి ఎంతో దినాలు ఉంటాయా కనిపించారు?

(1) 40
(2) 48
(3) 24
(4) 30

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 101 Question Id : 6326863434 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అంటే గణితశాస్త్రం (మార్క్స్: 35)
If 3 men or 4 women can reap a field in 43 days, how long will 7 men and 5 women take to reap it?

(1) 12
(2) 14
(3) 10
(4) 15

Options:
1. ✓ 1
2. ☓ 2
3. ☓ 3
4. ☓ 4

i) Arithmetical Ability (Marks : 35)
అరిథ్మెటికల్ ఆధారం (మార్క్స్ : 35)
Four circles each of radius $a$ cm are touching each other in pairs as shown in the figure. The area of the shaded region (in sq.cm) between the circular, as shown in this figure is

\[
\frac{2a^2}{7}
\]

(1) \[ \frac{2a^2}{7} \]

(2) \[ \frac{4a^2}{7} \]

(3) \[ \frac{3a^2}{7} \]

(4) \[ \frac{6a^2}{7} \]

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
The area of a rectangle is 3 times that of a square. The length of the rectangle is 16 m more than the side of the square while the breadth is \( \frac{1}{2} \) of the side of the square. Then the perimeter of the rectangle, in meters, is

\[ \text{Area of square} = \text{Area of rectangle} \]
\[ \text{Length of rectangle} = \text{Side of square} + 16 \]
\[ \text{Breadth of rectangle} = \frac{1}{2} \times \text{Side of square} \]

**Options:**

1. \( \frac{208}{5} \)
2. \( \frac{104}{5} \)
3. \( \frac{52}{5} \)
4. \( \frac{26}{5} \)

**Question Details:**
- Question Number: 104
- Question Id: 6326863437
- Question Type: MCQ
- Option Shuffling: No
- Display Question Number: Yes
- Is Question Mandatory: No
- Calculator: None
- Response Time: N.A
- Think Time: N.A
- Minimum Instruction Time: 0
- Correct Marks: 1
- Wrong Marks: 0

**Submissions:**
- i) Arithmetical Ability (Marks: 35)
- (సాంఖ్యేషిక శక్తి) (మార్క్స్: 35)
If the slant eight and radius of a right circular cone are in the ratio 5 : 4 and its volume is $432\pi$ cubic feet, then the height of the cone, in feet, is

5 : 4 లో సేతురు, మధ్యపు రేటు 5 : 4 లో ఉండి, అంతే స్పృఖ్తి $432\pi$ కోణ ధరాలు అంచనాయం, అ స్థులాన్ని లేదోగాలు, (అంశాంకాలు)

(1) 3
(2) 6
(3) 9
(4) 12

Options :
1. ✔ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 105 Question Id : 6326863438 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అంశాంక శక్తి (మార్క్స్ : 35)
A metal solid cylinder of height 64 feet and base radius 6 feet is melted and cast in the form of a solid sphere, then the surface area of the sphere, (in square feet), is

64 తీరిన స్ఫూర్తి 6 తీరిన క్రింద ఇంటిని చిన్న ఒక తీరిన నుండి తిరిగి నాలుగు తీరిన రోడుగా ఉంటుంది అయితే అదే తీరిన వ్యాసంలో ఒక మిలిండం చేస్తే ఈ మిలిండం నంతరా వ్యాసం స్ఫూర్తి (స్ఫూర్తి).

(1) \(48\pi\)
(2) \(144\pi\)
(3) \(576\pi\)
(4) \(1152\pi\)

Options:
1. ✗ 1
2. ✗ 2
3. ☑ 3
4. ✗ 4

Question Number : 106 Question Id : 6326863439 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability

అరిథ్మెటికి కృతిస్తుడు

(Marks : 35)
A Square field of side 34 feet is surrounded by a path of uniform width. If the cost of fixing tiles on this path at the rate of Rs.30 per sq. feet is Rs.15750, then the width of the path (in feet) is

34 ఆకాశ చింతు తీవ్రం మై విశేషం చేసి వారి నియంత్రించాలి. ఎక్కడ చింతా 30 రూపాణి, అది లేదనే చేసి
చేసేదికి రూ.15750 ఆ మంద నిలిచి, అ నిమిస నిషేదం
(మేఖలారు)

(1) 3.5
(2) 6
(3) 5
(4) 4

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 107 Question Id : 6326863440 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అరిథ్మెటికల్ సాధనాలు (మార్క్స్ : 35)
The sides of a rectangular park are in the ratio 4 : 3 and its area is 8112 sq. m. Then the cost of fencing around the park at Rs.6 per meter, in rupees , is

(1) 1092
(2) 1638
(3) 2184
(4) 3276

Options :
1. ✗
2. ✗
3. ✓
4. ✗

Question Number : 108 Question Id : 6326863441 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
సంఖ్య శక్తి శాస్త్రం (మార్క్స్ : 35)
The radius and length of a cylindrical roller are 25 cm and \(2 \frac{1}{2}\) m respectively. Then the area it covers in 35 rounds, in square meters, is (take \(\pi = \frac{22}{7}\))

\[\text{Area} = \pi r^2 l = \frac{22}{7} \times (25)^2 \times 2 \frac{1}{2} \times 35\]

Options:
1. 6875
2. 412 \(\frac{1}{2}\)
3. 1375
4. 137 \(\frac{1}{2}\)

Question Number : 109 Question Id : 6326863442 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
If $3^{58} \equiv r \pmod{28}$ and $0 \leq r \leq 27$, then $r =$

$$0 \leq r \leq 27 \text{ అంకులు, } 3^{58} \equiv r \pmod{28} \text{ అనంతించినం } r =$$

(1) 3
(2) 9
(3) 17
(4) 25

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 110 Question Id : 6326863443 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

i) Arithmetical Ability (Marks : 35)
అవినెతీ నిశాపుతీ (మార్క్స్ : 35)

The number of real solutions of the equation $2x^2 - 5|x| + 2 = 0$ is

$$2x^2 - 5|x| + 2 = 0 \text{ అనే సమాధానాల సంఖ్య నిశాపుతీ ఉంటే}$$

(1) 1
(2) 2
(3) 3
(4) 4

Options:
ii) Algebraic and Geometrical Ability  

If $A$ is the set of all positive integers greater than 1 and less than 45 that are coprime to 45, then the number of elements in $A$ is

(1) 24  
(2) 16  
(3) 22  
(4) 23

Options :
1. ✗ 1  
2. ✗ 2  
3. ✗ 3  
4. ✔ 4
ii) Algebraic and Geometrical Ability  

If a set $A$ has 7 elements, then the number of subsets of $A$ with at least 3 elements is

(1) 99  
(2) 64  
(3) 106  
(4) 112 

Options:
1. ✅ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4  

Question Number: 113  
Question Id: 6326863446  
Question Type: MCQ  
Option Shuffling: No  
Display Question Number: Yes  
Is Question Mandatory: No  
Calculator: None  
Response Time: N.A  
Think Time: N.A  
Minimum Instruction Time: 0  
Correct Marks: 1  Wrong Marks: 0
If \( f(x) = 3x^2 + 7x + 6 \), \( g(x) = 4x - 7 \) and \\
\( h(x) = 5f(x) + xg(x) + 4 \), then \( h(5) = \)

\[
\begin{align*}
  f(x) &= 3x^2 + 7x + 6, \quad g(x) = 4x - 7 \\
  h(x) &= 5f(x) + xg(x) + 4 
\end{align*}
\]

Options:
1. 185
2. 597
3. 649
4. 665

Question Number : 114 Question Id : 6326863447 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability

( Marks : 30)
If \(27x^3 - 54x^2 + 36x - 8 = 0\), then \(\left(x^2 + \frac{1}{x^2}\right) + 4\left(x + \frac{1}{x}\right) + 3 = \)

\[27x^3 - 54x^2 + 36x - 8 = 0 \implies \left(x^2 + \frac{1}{x^2}\right) + 4\left(x + \frac{1}{x}\right) + 3 = \]

(1) \(-\frac{421}{36}

(2) \(-\frac{473}{36}

(3) \(-\frac{503}{36}

(4) \(-\frac{517}{36}

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 115 Question Id : 6326863448 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability

(Marks : 30)

(సింహాసనం : 30)
If $ax + b$ is the remainder when the polynomial $14x^3 + 61x^2 + 77x + 30$ is divided by $7x^2 + 13x + 6$, then $3a + 4b =$

$14x^3 + 61x^2 + 77x + 30 \equiv \text{ by } 7x^2 + 13x + 6 \equiv \text{ remainder when divided,}$

$ax + b \equiv \text{ remainder, } 3a + 4b =$

(1) $0$
(2) $21$
(3) $16$
(4) $14$

Options :
1. ✓ $1$
2. $2$
3. $3$
4. $4$

Question Number : 116 Question Id : 6326863449 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
(భాషాపొందించి, దృశ్యపొందించి నియంత్రణ)
(Marks : 30)
If \( px^2 + qx + r \) is exactly divisible by \( x^2 - 3x + 2 \) and leaves remainder 6 when divided by \( x + 1 \) then \( p - q + 2r = \)

\[
px^2 + qx + r \quad \text{is divisible by} \quad x^2 - 3x + 2 \quad \text{leaves remainder} \quad 6 \quad \text{when divided by} \quad x + 1.
\]

(1) 8
(2) 7
(3) 5
(4) 4

Options :
1. ☑ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Question Number : 117 Question Id : 6326863450 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability (Marks : 30)
The number of common solutions of the equations

\[3x - 2y + 7 = 0, \quad 4y - 6x + 17 = 0\]
is

\[3x - 2y + 7 = 0, \quad 4y - 6x + 17 = 0\]

(1) 0
(2) 1
(3) 2
(4) Infinite

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 118 Question Id : 6326863451 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability

( Marks : 30)
If \( \frac{3x+2y}{xy} = \frac{7}{5} \) and \( \frac{2x+5y}{xy} = \frac{5}{3} \), then \( x^2y = \)

\[ \frac{3x+2y}{xy} = \frac{7}{5}, \quad \frac{2x+5y}{xy} = \frac{5}{3}. \]

\[ x^2y = \]

(1) 75
(2) 45
(3) 15
(4) 125

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 119  Question Id: 6326863452  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Is Question Mandatory: No  Calculator: None  Response Time: N.A  Think Time: N.A  Minimum Instruction Time: 0  Correct Marks: 1  Wrong Marks: 0

ii) Algebraic and Geometrical Ability (Marks: 30)

If \( |3x - 7| = 2 \) and \( x > 2 \), then \( x = \)

\[ |3x - 7| = 2 \quad \text{and} \quad x > 2, \quad \text{then} \quad x = \]

(1) 3
(2) \( 5\frac{1}{3} \)
(3) \( \frac{7}{3} \)
(4) 6
ii) Algebraic and Geometrical Ability (Marks : 30)

The arithmetic mean of 17 consecutive odd integers starting from 17 is

17, 19, ..., 33, 35, 37, ..., 51

(1) 51
(2) 33
(3) 231
(4) 561

Question Number : 121 Question Id : 6326863454 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability (Marks : 30)

The arithmetic mean of 17 consecutive odd integers starting from 17 is

17, 19, ..., 33, 35, 37, ..., 51

(1) 51
(2) 33
(3) 231
(4) 561
The number of multiples of 7 occurring between 100 and 10000 is

(1) 1342
(2) 1364
(3) 1382
(4) 1414

ii) Algebraic and Geometrical Ability

\[
\frac{4 \tan 150^\circ + \sin 240^\circ}{5 \cos 330^\circ + 3 \cot 225^\circ} = m + n\sqrt{3} \implies m + n =
\]

(1) \(\frac{-11}{13}\)
(2) \(\frac{11}{13}\)
(3) \(\frac{-13}{11}\)
(4) \(\frac{13}{11}\)
ii) Algebraic and Geometrical Ability (Marks : 30)

\[
\tan 20^\circ = x \Rightarrow \frac{\tan 250^\circ + \tan 340^\circ}{\tan 200^\circ - \tan 110^\circ} =
\]

(1) \(\frac{1+x^2}{1-x^2}\)

(2) \(\frac{1+x}{1-x}\)

(3) \(\frac{1-x^2}{1+x^2}\)

(4) \(\frac{1-x}{1+x}\)

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
In a triangle ABC, \( \tan \frac{A}{2} \cdot \tan \frac{B}{2} + \tan \frac{B}{2} \cdot \tan \frac{C}{2} + \tan \frac{C}{2} \cdot \tan \frac{A}{2} = \)

(!) \( \tan \frac{A}{2} \cdot \tan \frac{B}{2} + \tan \frac{B}{2} \cdot \tan \frac{C}{2} + \tan \frac{C}{2} \cdot \tan \frac{A}{2} = \)

1. \( \frac{3}{4} \)
2. \( \frac{1}{2} \)
3. \( 2 \)
4. \( 1 \)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 125 Question Id : 6326863458 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability (Marks : 30)

If \( \cos \theta = \frac{-5}{13} \) and \( \theta \) is not in 3\(^{rd}\) quadrant, then \( \tan \frac{\theta}{2} = \)

\( \cos \theta = \frac{-5}{13} \) ముందు సమీపంలో వేతకాస్తీ హేతువాసింది, \( \tan \frac{\theta}{2} = \)

(1) \( -\frac{3}{2} \)
(2) \( \frac{3}{2} \)
(3) \( \frac{2}{3} \)
(4) \( -\frac{2}{3} \)

Options:
ii) Algebraic and Geometrical Ability (Marks : 30)

The angle of elevation of the top of a tower when observed from the top of a tree of height 10m on a river side is $45^\circ$ and the angle of depression of the reflection of the top of the tower in the river is $60^\circ$, then the height of the tower, in meters, is 

(1) $5(2 + \sqrt{3})$

(2) $5(2 - \sqrt{3})$

(3) $10(2 + \sqrt{3})$

(4) $10(2 - \sqrt{3})$

Options :
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4
A right angled triangle ABC is right angled at B. If AB = 3 cm, BC = 4 cm, then the length of the altitude from B to AC is

\[ \frac{5}{13} \]
In Δ ABC, ∠BCA = 90° and CD is perpendicular to AB. If AD = 4 cm and BD = 9 cm, then the length of CD (in cm) is

Δ ABC తృణాంశుడు, ∠BCA = 90° అంచులో CD అనే నడుముద్రిను AD = 4 సమీకృతి. BD = 9 సమీకృతి నడుముద్రిలో CD లేదా మిదను ఉంటే (సమీకృతి: 9)

(1) 5
(2) 6
(3) 7
(4) 8

Options:
1. ✗ ✗ 1
2. ✔ ✔ 2
3. ✗ ✗ 3
4. ✔ ✔ 4

Question Number : 129 Question Id : 6326863462 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability భాస్కోపం, సమీకరణ సాంఘారిక శక్తి (Marks : 30)
If the lengths of the two diagonals of a rhombus are 10 cm and 24 cm, then the perimeter of the rhombus (in cm), is

(1) 13
(2) 26
(3) 39
(4) 52

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 130 Question Id: 6326863463 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0
Correct Marks: 1 Wrong Marks: 0

ii) Algebraic and Geometrical Ability (Marks: 30)
సంఖ్యా విభాగం, విభేదన సమీక్షలు (మార్కస్: 30)
The sides of a rectangle are in the ratio 6 : 5 and its area is 1470 cm². Then the perimeter of the rectangle, in cm, is

(1) 77
(2) 22
(3) 154
(4) 44

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number: 131 Question Id: 6326863464 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Correct Marks: 1 Wrong Marks: 0

ii) Algebraic and Geometrical Ability (Marks: 30)
A and B are the end points of a diameter of a circle whose radius is 3 cm. If C is a point on the circle such that AC = CB, then the perimeter (in cms) of the \( \triangle ABC \) is

\[3 \text{ cm. త్రికోణం } \triangle ABC \text{ లో ఆంగ్లంలో } A, B \text{ శిఖరాలు. క్షేత్రం లో } C \text{ యొక్క విశేషాలు } AC = CB \text{ యొక్క విశేషాలు ఆంగ్లంలో, } \triangle ABC \text{ నికి వండుపండు పరిమితం (3 cm.)} \]

(1) \( 6 + 6\sqrt{2} \)
(2) \( 3 + 3\sqrt{2} \)
(3) \( 6 + 3\sqrt{2} \)
(4) \( 6 + 3\sqrt{3} \)

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 132 Question Id : 6326863465 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability
(ii) అంశం నిపుణత మరియు గణిత శాస్త్రాన క్షేత్రం (Marks : 30)
If the radii of two circles are 12 cm and 7 cm and the distance between their centres is 4 cm, then the number of common tangents that can be drawn to the two circles is

12 సెంటీమీటర్లు, 7 సెంటీమీటర్లు. రేఖాంధర వంటి వంటి వెంటకు పైసుకు మధ్య
సగటు 4 సెంటీమీటర్లు, అంతేమాయి, అ సంశయాలను తగ్గించడం జరిగింది కాని ప్రతి
ఇది లచ్చా ఇద్దరు

(1) 4
(2) 3
(3) 2
(4) 0

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

ii) Algebraic and Geometrical Ability (Marks : 30)
అబ్బరిటి అండ్ జీమెట్రియల్ ఆసిస్టెన్స్ (మార్క్స్ : 30)
The centroid of the triangle formed by the points \((-1, 2), (2, -3)\) and \((4, -5)\) is

\((-1, 2), (2, -3), (4, -5)\) అత్యంత రెండు భూమిశేఖర ఋతులను ప్రతిష్ఠించాటం

\[
(1) \quad (1, -1) \\
(2) \quad \left(2, \frac{-5}{3}\right) \\
(3) \quad \left(\frac{5}{3}, -2\right) \\
(4) \quad \left(-2, \frac{-5}{3}\right)
\]

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 134 Question Id : 6326863467 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability  
యుగ్మానికం, విభ్యంత్ర కారారుపం  
(Marks : 30)  
(మాధ్యమా : 30)
The ratio in which the X-axis divides the line segment joining the points 
(-3, -4) and (2, 3) is

(-3, -4) మధ్యానం (2, 3) నియంత్రణ సరీరిన సమాన యొక్కుడు ఎత్తు విగుణింది

1. 3 : 2
2. 4 : 3
3. 3 : 4
4. -4 : 3

Options :
1. ❌ 1
2. ✅ 2
3. ❌ 3
4. ❌ 4

Question Number : 135 Question Id : 6326863468 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability (Marks : 30)
నియంత్రణ, అగ్రసంస్థ సాధనాలు (మార్క్స్ : 30)
A line has slope \( \frac{5}{12} \) and it makes an angle \( \theta \) with positive X-axis, then \( \sec^2 \frac{\theta}{2} = \)

\( \text{తెలుపు నిరూపణం సూచించిన కోణం } \frac{5}{12} \) అంచులో ఉంటుంది, \( \sec^2 \frac{\theta}{2} = \)

(1) 26
(2) \( \frac{12}{13} \)
(3) \( \frac{26}{25} \)
(4) 13

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

ii) Algebraic and Geometrical Ability

(ఈయెవర్టుండి జ్యామితీయ విశ్లేషణ) ( Marks : 30)
If $\theta$ is the acute angle between the lines $y = 4x$ and $y = -6x$ then $\sin^2 \theta =$

$y = 4x \quad \text{and} \quad y = -6x$ ये दोनों रेखाओं के बीच $\theta$ का ठेला है, $\sin^2 \theta =$

$$
\begin{align*}
(1) \quad & \frac{100}{529} \\
(2) \quad & \frac{100}{629} \\
(3) \quad & \frac{10}{23} \\
(4) \quad & \frac{529}{629}
\end{align*}
$$

Options :

1. $\times \quad 1$
2. $\checkmark \quad 2$
3. $\times \quad 3$
4. $\times \quad 4$

ii) Algebraic and Geometrical Ability  
(ii) సంఖ్య జాతీయా రంగోలు, జ్యోతిష శాస్త్రం సాధన సాధనాం శాస్త్రం  
(Marks : 30)
If origin is the centroid of a triangle ABC and if A(5, -1), B(-7,6), then the equation of the median through the vertex C is

(1) $5x + y = 0$
(2) $6x + 7y = 0$
(3) $7x + 12y = 0$
(4) $5x + 2y = 0$

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 138 Question Id : 6326863471 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability (Marks : 30)
(సంఖ్యాశాస్త్రం, జీలింగస్త్రం నిర్ణయికత్వం) (మారిమణి : 30)
The equation of the line which makes an angle 135° with the positive direction of X-axis and an intercept -3cm on the Y-axis is

\[ x - y + 3 = 0 \]

\[ x + y + 3 = 0 \]

\[ x + y - 3 = 0 \]

\[ y - x - 3 = 0 \]
If the line $y = kx + 11$ is parallel to the line $2x + 5y - 7 = 0$, then the $k =$

$y = kx + 11$ బిందు 2x + 5y - 7 = 0 బిందు సాంప్రదాయం అవసరం, $k =$

(1) $\frac{-5}{2}$
(2) $\frac{2}{5}$
(3) $\frac{-3}{5}$
(4) $\frac{-2}{5}$

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 140 Question Id : 6326863473 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

ii) Algebraic and Geometrical Ability (Marks : 30)
నిక్యాంకమైన, జ్యాతి సాహిత్య సామర్థ్య (మార్కులు: 30)
If (3, -4), (4, 1), (7, -6) and (8, 0) are the coordinates of the points A, B, C and D respectively, then the point of intersection of the lines AC and BD is

A, B, C మరియు D రేకాక రెండు రేఖల వచ్చే సమస్థానం (3, -4), (4, 1), (7, -6) మరియు (8, 0) రేకాకు, AC, BD రేకాక రెండు రెండు సమస్థానం

(1) \((18, \frac{13}{2})\)
(2) \((-18, \frac{-13}{2})\)
(3) \((-18, \frac{13}{2})\)
(4) \((18, \frac{-13}{2})\)

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Sub-Section Number: 3
Sub-Section Id: 632686381
Question Shuffling Allowed: Yes

Question Number: 141 Question Id: 6326863474 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0
Correct Marks: 1 Wrong Marks: 0

iii) Statistical Ability
సంఖ్యాశాస్త్ర కృతిత్వం (Marks: 10)
If the arithmetic mean of $-3, 5, 7, x, 8, 12$ is 21, then $x =$

$-3, 5, 7, x, 8, 12$ అనేపు సంఖ్యల సారాంశం 21 అనుమతించడం, $x =$

(1) 83
(2) 87
(3) 93
(4) 97

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 142 Question Id : 6326863475 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

iii) Statistical Ability
పాటయోగ్యత నిర్వంతత

(Marks : 10)  (వస్త్రాలు 10)
The average score of a cricketer in 4 matches is 56 and that in 6 others is 46. Then his average score in 10 matches is

4 మార్గల్లో తన వర్గం 56 ఉండేది అంటే 6 మార్గల్లో తన వర్గం 46 ఉండేది, 10 మార్గల్లో తన వర్గం ఎంత ఉండేది

(1) 50
(2) 48
(3) 52
(4) 44

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 143  Question Id : 6326863476  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0
Correct Marks : 1  Wrong Marks : 0

iii) Statistical Ability  (Marks : 10)  నంది వ్యవాహాలం నిర్ణయం (మార్గం : 10)
A data contains four 4’s, five 5’s, six 6’s and seven 7’s. Then the arithmetic mean of the data is

వివిధ సంఖ్యలు 4 యొక్క 4, 5 యొక్క 5, 6 యొక్క 6, 7 యొక్క 7, 

(1) \(\frac{63}{2}\)
(2) \(\frac{11}{2}\)
(3) \(\frac{63}{11}\)
(4) \(\frac{2}{11}\)

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 144 Question Id : 6326863477 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

iii) Statistical Ability

సంఖ్యా శాస్త్రం శాస్త్రికత 

(Marks : 10)
A data contains the natural numbers 1, 2, 3, ... 10 with frequencies $1^2, 2^2, 3^2, ... 10^2$ respectively, then the median of the data is

(1) 6
(2) 7
(3) 8
(4) 9

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

iii) Statistical Ability (Marks : 10)
The median of a data containing 13 observations is 26. If 6 more observations 13, 15, 21, 27, 36, 42 are added to the data, then the median of the new data containing 19 observations is

13 దిశిపుడు రింగ కలిగయం సంఖ్యలు మట్టికిందా 26, అందువలన 6 దిశిపుడు 13, 15, 21, 27, 36, 42 యుంభా మట్టికిందా మట్టికిందా శిరదు కలిగయం, 19 దిశిపుడు రింగ మట్టికిందా మట్టికిందా

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
</tr>
<tr>
<td>2</td>
<td>26</td>
</tr>
<tr>
<td>3</td>
<td>27</td>
</tr>
<tr>
<td>4</td>
<td>28</td>
</tr>
</tbody>
</table>

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

iii) Statistical Ability

ొసిపులు ప్రత్యేకత పిన్హాసరెంటకు మాత్రం ఉంటుంది.
The mode of the following frequency distribution given in the table, corrected to two decimal places, is

<table>
<thead>
<tr>
<th>Class</th>
<th>10 - 20</th>
<th>20 - 30</th>
<th>30 - 40</th>
<th>40 - 50</th>
<th>50 - 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>21</td>
<td>36</td>
<td>34</td>
<td>28</td>
<td>17</td>
</tr>
</tbody>
</table>

(1) 36.00
(2) 32.50
(3) 24.78
(4) 28.82

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 147 Question Id : 6326863480 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Statistical Ability (Marks : 10)
The arithmetic mean of some numbers is 18.5 and their mode is 16.2.
Then their median is

సమతల రాశుల మధ్య సమాధానం 18.5 మరియు మోడు 16.2 అనేకటి సమతల సమాధానం

(1) 16.7
(2) 17.83
(3) 17.73
(4) 18.7

Options :
1. ✗ ✗ 1
2. ✗ ✗ 2
3. ✔ 3
4. ✗ ✗ 4

Question Number : 148 Question Id : 6326863481 Question Type : MCQ Option Shuffling : No Display Question
Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

iii) Statistical Ability  

(సటిస్టిటిచాల్ అబిలిటీ) (Marks : 10)
When a fair die is tossed 3 times, the probability of getting a sum 14 is 

3 పొలిత్తు ఎత్తులు మేము సిద్ధంగా జరిగింది అంటే సమహరు 14 అంటే సమహరు ఎత్తు?

(1) $\frac{1}{18}$

(2) $\frac{7}{72}$

(3) $\frac{5}{72}$

(4) $\frac{1}{12}$

iii) Statistical Ability స్టయాటిస్టికల్ అబిలిటీ (Marks : 10)
The probability of getting exactly 5 heads when 8 fair coins are tossed simultaneously is

8 సామాన్యలోనే 8 కానికి రెండు దాడి దాడివంతమైనప్పటికి 5 దాడి సామాన్యం లేదా లేదు

(1) \( \frac{49}{128} \)
(2) \( \frac{7}{32} \)
(3) \( \frac{21}{128} \)
(4) \( \frac{9}{32} \)

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 150 Question Id : 6326863483 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

iii) Statistical Ability

(స్టాటిస్టికల్ ఆబిలిటీ)

(Marks : 10)
If two dice are thrown, the probability of getting the sum 7 is

చోట దీర్ఘయుష ఉదభిగా ఏండాక చీని సంఖ్యల మీద యాతా చీనో సంఖ్య సంఖ్యల మీద యాతా

(1) \( \frac{1}{12} \)
(2) \( \frac{1}{2} \)
(3) \( \frac{1}{3} \)
(4) \( \frac{1}{6} \)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

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**Communication Ability**

Section Id : 63268651
Section Number : 3
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 38
Number of Questions to be attempted : 38
Section Marks : 50
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 632686382
Question Shuffling Allowed : Yes

Question Number : 151 Question Id : 6326863484 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
Meanings (Sentences with dashes) Q.No.151 to Q.No.155
Obstinate attachment to the ideas of a particular group is called____.

(1) diplomacy  
(2) statesmanship  
(3) bigotry  
(4) equanimity

**Options**:
1. ⚫ 1
2. ⚫ 2
3. ✓ 3
4. ✓ 4

Meanings (Sentences with dashes) Q.No.151 to Q.No.155

Deeply attached friends are sometimes called ____ friends.

(1) heart  
(2) bosom  
(3) head  
(4) casual

**Options**:
1. ⚫ 1
2. ✓ 2
3. ⚫ 3
4. ⚫ 4

Meanings (Sentences with dashes) Q.No.151 to Q.No.155
He was terribly ______ when he heard about his friend’s accident.

(1) grateful
(2) enthusiastic
(3) depressed
(4) inspired

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 154 Question Id : 6326863487 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Meanings (Sentences with dashes) Q.No.151 to Q.No.155

An exaggerated opinion of one’s self is called ______.

(1) egotism
(2) agnosticism
(3) justification
(4) confession

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 155 Question Id : 6326863488 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Meanings (Sentences with dashes) Q.No.151 to Q.No.155
One of a class is called a _____.

(1) specimen  
(2) acumen  
(3) vitamin  
(4) stamina

Options :
1. ✓ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4

Sub-Section Number : 2  
Sub-Section Id : 632686383  
Question Shuffling Allowed : Yes

Question Number : 156 Question Id : 6326863489 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0  
Correct Marks : 1 Wrong Marks : 0

Synonyms and Antonyms Q.No.156 to Q.No.160

The synonym of ‘acknowledge’ is

(1) admit  
(2) reject  
(3) remit  
(4) confuse

Options :
1. ✓ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 157 Question Id : 6326863490 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0  
Correct Marks : 1 Wrong Marks : 0

Synonyms and Antonyms Q.No.156 to Q.No.160
The synonym of ‘mutual’

(1) common
(2) individual
(3) separate
(4) unconventional

Options :
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 158 Question Id : 6326863491 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

The antonym of ‘incessant’ is

(1) continuous
(2) intermittent
(3) perennial
(4) perpetual

Options :
1. ✗ 1
2. ✔️ 2
3. ✗ 3
4. ✗ 4

Question Number : 159 Question Id : 6326863492 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
The synonym of ‘resentment’ is

(1) bitterness
(2) betterment
(3) contentment
(4) rejuvenation

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

The synonym of ‘bliss’ is

(1) sorrow
(2) ecstasy
(3) lust
(4) indifference

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
I have been working here ____ 1990.

(1) from
(2) since
(3) till
(4) to

Options :
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 162 Question Id : 6326863495 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Verb (Tense and Voice) Q.No.161 to Q.No.165

We look forward to ____ you.

(1) meet
(2) met
(3) have met
(4) meeting

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 163 Question Id : 6326863496 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Verb (Tense and Voice) Q.No.161 to Q.No.165
If I ______ realised the nature of the job earlier, I would not have accepted it.

1. If I have had
2. Had I been
3. Had I
4. Have I

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

If I ______ wished horses, this would not have happened.

1. was
2. were
3. has
4. is

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
Scarcely ____ she gone when I read her letter.

(1) have  
(2) had  
(3) has  
(4) did

Options :
1. ☐ 1
2. ☑ 2
3. ☐ 3
4. ☑ 4

Sub-Section Number : 4  
Sub-Section Id : 632686385  
Question Shuffling Allowed : Yes

You should come ____ of your frame of mind, if you wish to succeed.

(1) up  
(2) out  
(3) on  
(4) in

Options :
1. ☐ 1
2. ☑ 2
3. ☐ 3
4. ☑ 4

Question Number : 166 Question Id : 6326863499 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0  
Correct Marks : 1 Wrong Marks : 0  
Phrasal Verbs & Idioms Q.No.156 to Q.No.170

You should come ____ of your frame of mind, if you wish to succeed.

(1) up  
(2) out  
(3) on  
(4) in

Options :
1. ☐ 1
2. ☑ 2
3. ☐ 3
4. ☑ 4

Question Number : 167 Question Id : 6326863500 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0  
Correct Marks : 1 Wrong Marks : 0  
Phrasal Verbs & Idioms Q.No.156 to Q.No.170
Being abreast _____ times is the quality of a good researcher.

(1) in  
(2) of  
(3) up  
(4) on

Options:
1. ✗ 1  
2. ✔ 2  
3. ✗ 3  
4. ✗ 4

His arrival _____ the ice to speed up the much-needed dialogue.

(1) broke  
(2) took  
(3) looked  
(4) broken

Options:
1. ✔ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4
The bank helps people _____ business.

(1) set aside  
(2) set off  
(3) set up  
(4) set out

Options:
1.  
2.  
3. ✓  
4.  

That lawyer hardly takes _____ criminal cases.

(1) off  
(2) up  
(3) of  
(4) by

Options:
1.  
2. ✓  
3.  
4.  

Sub-Section Number: 5  
Sub-Section Id: 632686386  
Question Shuffling Allowed: Yes
They jumped ____ my proposal.

(1) for
(2) of
(3) at
(4) upon

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 172 Question Id : 6326863505 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Articles & Prepositions Q.No.171 to Q.No.175

She took exception _____ his behaviour.

(1) to
(2) of
(3) from
(4) up

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 173 Question Id : 6326863506 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Articles & Prepositions Q.No.171 to Q.No.175
Both of them came to ____ amicable agreement.

(1) a
(2) an
(3) the
(4) of

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Is true love, love ____ first sight?

(1) to
(2) upon
(3) at
(4) of

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Who is afraid _____ the robber?

(1) for
(2) of
(3) off
(4) by

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 6
Sub-Section Id: 632686387
Question Shuffling Allowed: Yes

Question Number: 176 Question Id: 6326863509 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0
Correct Marks: 1 Wrong Marks: 0

Computer Terminology Q.No.176 to Q.No.180

A malfunction owing to an error in the program is called _____.

(1) browser
(2) bug
(3) byte
(4) cache

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number: 177 Question Id: 6326863510 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0
Correct Marks: 1 Wrong Marks: 0

Computer Terminology Q.No.176 to Q.No.180
Cookie is a _____.

(1) cracker
(2) cursor
(3) desk-top
(4) text-file

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 178 Question Id : 6326863511 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Computer Terminology Q.No.176 to Q.No.180

Emoji is a small digital _____.

(1) font
(2) hacker
(3) firewall
(4) image

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 179 Question Id : 6326863512 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Computer Terminology Q.No.176 to Q.No.180
Phishing is an e-mail that appears to be __________, but not.

(1) illegitimate
(2) economical
(3) legitimate
(4) unofficial

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 180 Question Id : 6326863513 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Computer Terminology Q.No.176 to Q.No.180

‘Peripheral’ is the name of a/an _____ device attached to a computer.

(1) internal
(2) external
(3) platform
(4) byte

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 7
Sub-Section Id : 632686388
Question Shuffling Allowed : Yes

Question Number : 181 Question Id : 6326863514 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Business Terminology Q.No.181 to Q.No.185
Stopping an activity for an agreed period of time is _____.

(1) moratorium 
(2) mortgage 
(3) imbroglio  
(4) injunction

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 182 Question Id : 6326863515 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
Business Terminology Q.No.181 to Q.No.185

To depict a process or a series of parallel processes one would use _____.

(1) tree diagram 
(2) interrelation graph 
(3) fishbone diagram 
(4) process mapping

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 183 Question Id : 6326863516 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
Business Terminology Q.No.181 to Q.No.185
Confidential Reports of employees obtained on annual basis is an example of

(1) control of employees
(2) instilling fear in employees
(3) MIS
(4) merit rating of employees

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☑ 4

Question Number : 184 Question Id : 6326863517 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
Business Terminology Q.No.181 to Q.No.185

A means used to encourage creative thinking is called ______.

(1) manipulation
(2) duplication
(3) provocation
(4) brainstorming

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☑ 4

Question Number : 185 Question Id : 6326863518 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
Business Terminology Q.No.181 to Q.No.185
An actuary’s responsibilities include calculating

(1) quality of life
(2) life expectancy
(3) acquisition
(4) requisition

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 8
Sub-Section Id : 632686389
Question Shuffling Allowed : Yes
There has never been a more urgent need to restore damaged ecosystems. The COVID-19 pandemic is a direct result of the degradation of natural areas, species loss, and exploitation. It is time to change how we cultivate our land, use our soils, exploit coastal and marine ecosystems, and manage our forests. India must participate actively in the UN Decade on Ecosystem Restoration. Ten years of sustained action will help India end poverty by enhancing livelihoods; to combat climate change by reviving natural carbon stores; to halt the collapse of bio-diversity by rebuilding homes for wildlife. Ecosystem restoration benefits people and nature. For a better future, India must work towards creating food systems that work with nature. Empowering small-scale farmers and women farmers and challenging social norms and business practices are key. This can be achieved through capacity building and education.

Globally, we must reduce net carbon dioxide emissions by 45% by 2030. And we must reach net-zero emissions by 2050 to have a hope of achieving the 1.5°C Paris Agreement target. India needs to work towards this by transforming energy systems, land use, agriculture, forest protection, urban development, infrastructure and lifestyles.

Sub questions

Question Number : 186 Question Id : 6326863520 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

COVID-19 is chiefly attributed to

(1) decrease in natural spaces.
(2) decrease in healthcare facilities.
(3) exploitation of natural habitat.
(4) healthier ecosystems.

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 187 Question Id : 6326863521 Question Type : MCQ Option Shuffling : No Display Question
The processing problem that humanity needs to address in the context of ecological crisis is

(1) hazards caused by biodiversity.
(2) COVID-19 awareness.
(3) reversal of wild-life protection measures
(4) maintaining balance in ecosystem.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Some of the changes that are recommended for ecological balance are

(1) The way we farm our lands without causing damage to ecosystem.
(2) The way we treat fellow human beings.
(3) Exploiting coastal, marine life and soil erosion.
(4) Upholding progress unmindful of the damage to the environs.

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
At present we are experiencing climate change. It is

(1) highly warranted.
(2) in the interest of wildlife.
(3) detrimental to human and natural resources.
(4) a natural progression that one cannot stop.

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

We need to work out a system that allows

(1) man to function in contravention of natural laws.
(2) compatibility between man and nature.
(3) friction between wildlife and marine life.
(4) conflict between man and marine life.

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Read the Passage and answer the questions Q.No.191 to Q.No.195
I have been unusually fortunate as a writer, in that my life has given me more than one gold nugget of good and bad feeling or experience. To begin with, I had India, that inexhaustible horn of plenty, that endlessly nourishing well. After that I had migration because the journey, I made from East to West was made by millions of others. Migration is an old subject in America, but now it’s the world’s subject too. For good or ill this is the age of the migrant, the time in human history in which more people than ever before have ended up in places in which they did not begin, driven by economic necessity, political turmoil, or simply the lure of the big city’s bright lights. This too became my subject, thanks to the accidents of my life. And then, there is a third, the one that preoccupies me more and more – the desire to show how the world joins up, how ‘here’ connects to ‘there’, how the little boxes we live in now open out into other little boxes often very far away; and how in order to explain our lives, we often need to understand things happening on the other side of the world. I once wrote that the British didn’t fully understand their own history because so much of it happened overseas.

Sub questions

Question Number : 191  Question Id : 6326863526  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Calculator : None  Response Time : N.A  Think Time : N.A  Minimum Instruction Time : 0  Correct Marks : 1  Wrong Marks : 0

The author feels fortunate as a writer because life has given him

(1) a fantasy world.
(2) a golden spoon.
(3) prosperity.
(4) rich experience.

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
Question Number : 192 Question Id : 6326863527 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

What is the second point that the author elaborates?

(1) economic necessity  
(2) migration  
(3) different cultures  
(4) his life

Options :
1. ✗ 1  
2. ✔ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 193 Question Id : 6326863528 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

By ‘nourishing well’ the writer implies___

(1) a treasure trove of creativity.  
(2) a well without water.  
(3) his good fortune.  
(4) his bright future.

Options :
1. ✔ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 194 Question Id : 6326863529 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0
What is the theme that the author is increasingly interested in?

(1) chaos in the world
(2) inner turmoil
(3) interconnectedness
(4) British history

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

The British fully didn’t understand their history because of their

(1) reluctance.
(2) colonial past.
(3) inexhaustible wealth.
(4) progressive mentality.

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 10
Sub-Section Id : 632686391
Question Shuffling Allowed : Yes
More than the biological coronavirus, civilization is indeed experiencing an excruciating world-wide pandemic of barriers and barricades. The fence is a testimony of death and terror of race and ultranationalism. If one listens carefully, one can hear the whispering voices from below, the voices the rich and the powerful refrain from hearing. How long will they refrain from hearing? How long will their voices go unheard from across the fences, voices fortified with the words of resistance not for rewards but for the vision of peace and freedom, of human rights and dignity? Absorbed in the landscape, I begin to imagine a world undivided by barriers, a global consciousness unabashedly pro-diversity, and a land that gives you a deep sense of belonging. The world needs to rise above the frenzy of labels of race, gender, caste, religion and political bias. It needs to address as one people the issues that are far more crucial to humanity. Threats and detentions clash with the deep sense of peace that I experience, resonating a flash of some utopian borderless world that might someday become a reality.

Sub questions

Question Number : 196 Question Id : 6326863532 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

The author used ‘the fence’ in the meaning of

(1) freedom and joy
(2) dream and reality
(3) an imaginary world
(4) divisive lines

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 197 Question Id : 6326863533 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0
The author envisions a world marked by

(1) fences and fitters
(2) global hazards
(3) diversity and attachment
(4) threats and detentions

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

The voices of resistance are heard asking for

(1) freedom and dignity
(2) more privileges
(3) barriers and barricades
(4) dreams of a landscape

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

‘The voices from below’ refers to

(1) affluent sections
(2) underprivileged people
(3) ultranationalism
(4) migrants

Options:
What is the hope that the author nurtures?

(1) All people becoming rich.
(2) A world of peace and harmony.
(3) the world becoming more ruthless.
(4) A world of autocracy and violence.

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4