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 28th July 2022 Shift 2
Subject Name: TS ICET 2022
Creation Date: 2022-07-28 18:35:55
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: 63268625
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
(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 : 6326864994 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 $x + y + z$?

$x + y + z \text{ వేసుకోండా వేసుకోండా ఉంటే?}$

(I) $3x - y + 2z = 5$

(II) $x + 5y + 2z = 10$

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

If $x, y$ are positive integers, is $\sqrt{x^2 + y^2}$ an integer?

$x, y \text{ ఎంపిక్ భిన్నాలు లేని } \sqrt{x^2 + y^2} \text{ ఒక సంఖ్య కావాలి?}$

(I) $x : y = 1 : 2$

(II) $x + y$ is a multiple of 7.

$x + y \text{ ఎక్కువ 7 లేపి కావుండా.}$

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 3 Question Id : 6326864996 Question Type : MCQ Option Shuffling : No Display Question
Is the positive integer $n$ divisible by 462?

(ⅰ) 715 divides $n$.

(ⅱ) 210 is a factor of $n$.

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
What is height of the cylinder?

డాని ఎత్తు?

(I) Volume of the cylinder is 48 cm³.

పిండి పెక్క పరిమితి 48 సెమీ³.

(II) The lateral surface area of the cylinder is 28 cm².

పిండి పరామర్శా పరిమితి 28 సెమీ².

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

If \(x\) and \(y\) are integers then is \(z\) an even integer?

\(x, y\) సమాధానపుట్టి అంటే, \(z\) ఎందుకు సమాధానాన్ని ఎంత ప్రత్యేకం?

(I) \(z = (x + y)^2\).

(II) \(z = 2x + 4y\).

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
If $a, b, c$ are integers, is $a < b$?

$\quad a, b, c \quad \text{belongs to integers}, \quad a < b \quad \text{belongs to integers}$?

(l) $a^2 + b^2 + c^2 = 0$.

(ll) $b < a + c$.

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
What is the cost of erecting a fence around a rectangular field?

(1) The area of the field is 24000 square meters.

(2) The cost of fencing Rs.150 per meter.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

If $m, n$ are positive integers greater than 4, then what is the value of $m + n$?

$m, n$ ఒక ధ్రువవాయనతో వేరు 4 కంటే పెద్దమైన సాధారణం, $m + n$ ఎంత?

(1) $mn = 48$.

(2) $m > n$. 

Options:
Question Number : 9 Question Id : 6326865002 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 common ratio of the Geometric Progression?

What is the common ratio of the Geometric Progression?

(I) The sum of the first four terms is 80.

II The first and fourth terms are 2 and 54 respectively.

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 10 Question Id : 6326865003 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 positive integral value of $x$?

$x$ వాటినా మాండి విలువు 10 యున్నది?

(i) $57 < 7x + 1 < 71$.

(ii) $25 < x^2 < 81$.

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

What is the selling price of the sofa?

చిప్పు విదీరి ఆధృతం లేదా ఈ భాంతి?

(i) The marked price of the sofa is Rs.7500.

(ii) The profit the merchant gets by selling the sofa is Rs.900.
3. ☒ 3
4. ☒ 4

Question Number : 12  Question Id : 6326865005  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 person A?

వింతెన్నో A తృదగం (ప్రస్తుతం ఆయామం) ఎన్ని?

(I) Today is A’s birthday.
    ఆ త్రింది A తృతి ఉన్ని నాడు.

(II) After one year he will be twice as old as he was ten years ago.
    ఒక సంవత్సరం ప్రస్తుతం ఆయామం అటవి అయితే
    ఆయామం ప్రస్తుతం పనించి ఎన్ని?

Options:
1. ✗ 1
2. ☒ 2
3. ✗ 3
4. ✗ 4

Question Number : 13  Question Id : 6326865006  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 area of the circle?

ప్రిమిషన్ ప్రశ్నాంశం?

(I) The circle circumscribes a square of area 49 cm$^2$.
   అంధ్రాభేదం 49 చె.మీ.$^2$ లోపల సరూరానికి కంటే ప్రిమిషన్ ప్రశ్నాంశం.

(II) The circle is inscribed in a triangle of area 48 cm$^2$.
   అంధ్రాభేదం 48 చె.మీ.$^2$ లూపల సరూరానికి కంటే ప్రిమిషన్ ప్రశ్నాంశం.

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
How many marks did he get in Mathematics?

అది ఎలా మార్క్సు లేసినా?

(I) The average of his marks in Mathematics, Physics and Chemistry is 79.

అనేక మార్క్సుల మధ్యంతరం 79 అనే రెండుముడు మార్క్సు నిలుతుంది.

(II) The average of his marks in Mathematics and Chemistry is 72.

అనేక మార్క్సుల మధ్యంతరం 72 అనే రెండుముడు మార్క్సు నిలుతుంది.

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

Correct Marks: 1 Wrong Marks: 0
Is $f(x)$ an even function?

$f(x)$ ఎందుకంటే (దక్షిణం) ఎంచినది?

1. $f(x) = g(x) + g(-x), x \in \mathbb{R}$

2. $g(x) = \cos x, x \in \mathbb{R}$

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Correct Marks: 1 Wrong Marks: 0
How many people are there in the queue between two persons A and B?

అందుకే ఎంతో వ్యక్తులు A మరియు B మిత్ర రెండు రెగిస్తానికి ఉండాం?

(I) A is the 15th from the end of the line.

ఐ A దాని మొత్తం నకు 15వ స్థానంలో ఉంది.

(II) B is in the centre of the line and there are 10 more ahead of him.

ఐ B కార్యక్రమంలో మధ్యదిశలో ఉండే వ్యక్తి పైకి 10దిశలో కొద్ది ఉంది.

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 17 Question Id : 6326865010 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 a Carrom Board game of doubles played by four players A, B, C and D, who is sitting opposite to A?

(1) B is sitting opposite to D.

D సాంస్కృతికంగా B సాహిత్యం

(II) C is sitting facing North.

సాంస్కృతికంగా C సాహిత్యం.

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 18 Question Id: 6326865011 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 a queue of 20 people waiting at the counter what is the position of A from the end of the line?

వర్గంలో 20 లోని కంటే కుటుంబాన్ని వెళ్ళిన A ఉత్తరం ఎంత?

(i) B is the fifth person in front of A from A.
A లో అతి 5వ స్థానంలో B ఉండరు. A నుండి B ఎన్ని స్థానాలు?

(ii) B is eighteenth person from the end of the line.
సంఖ్యబడిలో 18వ స్థానంలో B ఉండరు.

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

అనేక ఉండాలి?

(I) Day before yesterday is Tuesday.

వానం ప్రాతిపాదించేది.

(II) Sunday is a holiday.

అస్తిత్వ దినీ సాధ్యం.

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 20 Question Id : 6326865013 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
Four boys A, B, C, D sit around a round table side by side facing the centre of the table. Then who sits to the left of B?

నేను మనారిలో A, B, C, D ట్రవర్సల్ వ్యూలు వచ్చిన అడుగు నుండి ఎందరో మైనిచిన మనస్తాబాది. అప్పుడా B కండి ఎందరో చేస్తుంది?

(I) B and C face each other and A sits between B and C.
B మద్దతము C ఏ ఎంచుకున్నను స్థానికంగా B, C ఏ మద్దతము A ఉంచుకున్నను.

(II) D sits to the right of C and sits opposite to A.
A రెండు వేదికల ఉంటే చేపోవు ద ఉంది వేదికలు C రెండు వేదికల ఉంటే చేపోవు ద్వారా, A ఉంచుకున్న ద్వారా.

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 2
Sub-Section Id : 632686554
Question Shuffling Allowed : Yes
Question Number : 21 Question Id : 6326865014 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 పత్రిక క్రమానికే పత్రిక వర్గానికే రాయం దాని (వేరేముంది వేరేదినానికి) గాని వేరేదినానికి రాయం. వేరేదినానికి వేరేదినానికి రాయం చేయే తాము వేరేదినానికి రాయం చేపటం. తాము వేరేదినానికి రాయం చేయవచ్చు ప్రతి వేరేదినానికి రాయం చేయవచ్చు.

CAM : USE :: SAT : ___

(1) KSL
(2) MOJ
(3) LTR
(4) JRM

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 సమాచారాలు గానీ రిటీరాలు గానీ కొనసాగించేందుకం (అంటే రెండు సంఖ్యలు మరియు కోవడానికి సహజం) ఏమా అన్నమేది. ఎంటే రెండు సంఖ్యలు అండు రెండు సంఖ్యలు ఇస్తుంటాయి. చాలా ప్రతి రెండు సంఖ్యలు సమాధానం చేయించాలి. అంటే రెండు సంఖ్యలు సమాధానం చేయించాలి.

FIG : KNL :: SET : ____

(1) XKY
(2) XJZ
(3) XJY
(4) XJA

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 23 Question Id : 6326865016 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.

DBCE : QOPR :: JLIK : ____

(1) YWXU
(2) WYXV
(3) WXYV
(4) WYVK
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 ຫීම සහ විශේෂයෙන් කිරීමෙන් ලබා ගනී (ඉදිරිය දෙසේහි විශේෂයෙන් විශේෂයෙන් වැසීමෙන්) නැවත යාවම්. මෙම ප්‍රදේශ රාශියේ උදාහරණ වෙනත් කිරීමෙන් බිත්තී යාවම්. කෙසේ ලක් විශේෂයක් විශේෂයෙන් නැවත යාවම් නැවත කිරීමෙන් නැවත කිරීමෙන්.

SOME : ___ :: WHAT : CRYF

(1) GLMU
(2) GKMV
(3) GKNU
(4) GKMU

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 25 Question Id : 6326865018 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 సంఖ్యల కంటే సంఖ్యలు జరిగిన సమాఖ్యాతి (అంగీకార చివర జరిగిన సమాఖ్యాతి) నీటిగా కొనిపట్టి. అంగీకార చివర జరిగిన సంఖ్యల మేల్లో సుమారు నీటిగా కొనిపట్టి. అంగీకార చివర గానా కొనిపట్టి నీటిగా కొనిపట్టి.

PCD : SGI :: BKS : _____

(1) EJT
(2) CLU
(3) EPX
(4) EOX

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 ల ఒక స్థానంలో భిన్నమైన రెండు సంఖ్యలు (వివిధ తరుణాల మధ్య బెంధలు) ఉంటాయి అని చెప్పండి. దీని ప్రపంచంలో అన్ని సంఖ్యల కూలించడానికి ఎలా చేయవచ్చు. ఆ రెండు సంఖ్యలు ఎంతగా కనిపించినవి అందుకే ప్రఖ్యాతంగా వచ్చాయి.

LEG7 : IBD4 :: SIX24 : ____

1. QFU21
2. PFV22
3. PFU22
4. PFU21

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 విస్తృతంగా పంచాయతీలో ఉన్న కోర్సు (అనువాదం చేసి)
ఎలా చేసినా 80 లక్షలు లాభాన్ని పొందాడు. ప్రతి రింగ్ యుగంలో
ఎలా ఆడిలో సమాధానం చేయించిన కొంతమంది కోసం కలుగీలేదా. ఆ వ్యక్తి ధరించగల
కానంతో ఆధారంగా నిర్ణయించాడు ఈ సమాధానం ప్రకటన చేయడాం.

LO12QT : PS2UX :: BE7FT : ____

(1) FJ23JX
(2) GI24JX
(3) FI23JX
(4) FI22JX

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 నంది కాడా రెండు పూర్వర్సిలే శోకం అందు (అన్నాడు నిరుదా
మితితో నామ్యం) నామ్యం చేయండి. ఎందుకు ప్రతి తోటకం పర్వతం మనుసుకు రవాణం చేయడానికి రవాణం చేసింది. అన్నాడు మరియు అనాడు నందిని అతి సరిపడి పంపు అందించండి.

12(22) : 14(24) :: ___ : 18(28)

(1) 16(26)
(2) 15(25)
(3) 15(25)
(4) 16(26)

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 మేమిన గా మిడిన రేషని స్టేడీ రేషని (ఆరు టూ సెట్ మాత్రమే నందించండి) మనము ముందు పెరిగింది. నా నంది మనము స్టేడీ రేషని పెరిగింది లేదా మనము స్టేడీ రేషని పెరిగింది.
MAT: 200113 :: TOE: _____

(1) 150520
(2) 201505
(3) 052015
(4) 051520

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Sub-Section Number: 3
Sub-Section Id: 632686555
Question Shuffling Allowed: Yes

Question Number: 31 Question Id: 6326865024 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.

7, 21, 43, 73, 111, 157, 213, 273

(1) 157
(2) 213
(3) 273
(4) 111

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
Note: In questions numbered 31 to 35 pick the odd thing out.

Hen, Crow, Pigeon, Eagle, Sparrow, Vulture, Parrot, Dove

(1) Pigeon
(2) Crow
(3) Hen
(4) Eagle

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Crow, Dog, Hen, Duck, Dove, Eagle, Peacock

(1)  Crow
(2)  Dog
(3)  Hen
(4)  Duck

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

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

30, 120, 180, 270, 480, 750, 1080

(1)  120
(2)  180
(3)  270
(4)  750

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Note: In questions numbered 31 to 35 pick the odd thing out.

Venus, Neptune, Uranus, Mercury, Titan, Earth, Jupiter

(1) Mercury
(2) Titan
(3) Earth
(4) Jupiter

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.
5, 10, 17, 26, ___, 50, 65

(1) 35
(2) 36
(3) 37
(4) 40

Options :
1. X 1
2. X 2
3. ✓ 3
4. X 4

Question Number : 37 Question Id : 6326865030 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.

ప్రశ్నాలు : 36 నుంచి 45 వరకు ఒక ప్రత్యేకమైన రిట్లు ఉంటాయి. అంటే ఎంచుకోదానికి సాధ్యమైన నియంత్రణ విధానాలను దానిలో ప్రత్యేకమైన సమస్యలను డైగ్రామ్ చేయాలి.

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

(1) 27
(2) 29
(3) 30
(4) 39

Options :
1. X 1
2. X 2
3. ✓ 3
4. X 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.

(1 + √2), -1, (-1 + √2), (-3 + 2√2), ____ , (-17 + 12√2), (-41 + 29√2)

1. (−7 + 5√2)
2. (−9 + 3√2)
3. (−11 + 7√2)
4. (−15 + 9√2)
\[
\frac{1}{6}, \frac{1}{2}, \frac{1}{3}, \frac{1}{2}, \frac{1}{6}, \frac{1}{2}, \frac{1}{3}, \ldots, 2 \frac{1}{6}
\]

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

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, 6, 24, 60, ____ , 210, 336

1. ✔️ 1
2. 148
3. 184
4. 196
Question Number : 41 Question Id : 6326865034 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.

1, 1, 2, 6, 24, 120, 720, ____

1.  (1) 5460
2.  (2) 4640
3.  (3) 5040
4.  (4) 6040

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 42 Question Id : 6326865035 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.

1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
10, 30, 150, ___, 11550, 150150

(1) 1050
(2) 10050
(3) 10150
(4) 11050

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.

2, 4, 1, 5, 0, 6, -1, ___
2. 2
3. 3
4. 4

Question Number : 44 Question Id : 6326865037 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.

గానం : 36 నుండి 45 వరకు ఈ మూడు చిహ్నాల పై నిర్ధారించి మాత్రమే నిలిచినం.

6, 8, 5, 9, 4, 10, 3, ___

(1) 12
(2) 11
(3) 9
(4) 8

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 45 Question Id : 6326865038 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.

1. \(\frac{2}{3}\), \(\frac{2}{11}\), \(\frac{4}{19}\), \(\frac{4}{43}\).

1. \(\frac{5}{31}\)
2. \(\frac{6}{31}\)
3. \(\frac{2}{29}\)
4. \(\frac{4}{37}\)

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 5
Sub-Section Id: 632686557
Question Shuffling Allowed: Yes

Question Numbers: (46 to 48)

(b) Data Analysis

(Marks: 10)
The table gives the data of the sales (in crores of rupees) in one year of four companies I, II, III, and IV dealing with same type of electronic items in five major cities A, B, C, D and E. Based on the data answer the questions from 46 to 48.

<table>
<thead>
<tr>
<th>City</th>
<th>Company</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td>375</td>
<td>525</td>
<td>225</td>
<td>475</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>400</td>
<td>500</td>
<td>275</td>
<td>525</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>450</td>
<td>550</td>
<td>325</td>
<td>475</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>425</td>
<td>575</td>
<td>350</td>
<td>550</td>
</tr>
<tr>
<td>E</td>
<td></td>
<td>450</td>
<td>550</td>
<td>375</td>
<td>625</td>
</tr>
</tbody>
</table>

Sub questions

Question Number : 46 Question Id : 6326865040 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)
Taking into consideration the total sales of all the companies in all the cities what is the percentage of sales of Company-I?

(1) $23 \frac{1}{3}$
(2) $27 \frac{2}{3}$
(3) 29.0
(4) $31 \frac{1}{3}$

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 47 Question Id : 6326865041 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)

(_marks : 10)
In all the cities put together which company recorded the maximum sales in that year?

(1) IV
(2) II
(3) III
(4) I

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

(b) Data Analysis (Marks: 10)
Of all the companies put together what is percentage increase of sales of the products in the city E compared to the City A?

ప్రతి కంపెన్సీ యొక్క గామిలు, కంపెన్సీ మండలంలో నగరం E గామిలు నిలువు వ్యాపారానికి మరొక కంపెన్సీ నగరం A నిలువు వ్యాపారానికి ప్రతిభా విస్తృతి ఎంతమాత్రం?

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

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Sub-Section Number : 6
Sub-Section Id : 632686558
Question Shuffling Allowed : Yes

Question Id : 6326865043 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 : (49 to 51)

(b) Data Analysis (Marks : 10)
The following pie-chart shows the expenditure of a family. Based on this information answer the questions from 49 to 51.

<table>
<thead>
<tr>
<th>Category</th>
<th>的角度 (度)</th>
</tr>
</thead>
<tbody>
<tr>
<td>食物</td>
<td>120°</td>
</tr>
<tr>
<td>租金</td>
<td>60°</td>
</tr>
<tr>
<td>教育</td>
<td>70°</td>
</tr>
<tr>
<td>零星支出</td>
<td>30°</td>
</tr>
<tr>
<td>储蓄</td>
<td>60°</td>
</tr>
<tr>
<td>衣物</td>
<td>20°</td>
</tr>
</tbody>
</table>

Sub questions

Question Number : 49 Question Id : 6326865044 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)
How much (in rupees) the family can save if the total income is 72000 rupees?

మిగిలి అతడం తిరగుతుంది, తరం వారు నేను కీలక మిగిలి (రూ.సమీకృతి) లేదు?

(1) 12000
(2) 11000
(3) 12500
(4) 11500

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

(b) Data Analysis
సాధన విశ్లేషణ

(Marks : 10)
The percentage of expenditure on food is

(1) 35 \frac{1}{3} \% 
(2) 34 \% 
(3) 33 \frac{1}{3} \% 
(4) 35 \%

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 51 Question Id : 6326865046 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)
If the total income of the family is Rs.144000, then the amount (in rupees) spent by family on Rent and Education is

(1) 56000
(2) 51000
(3) 54000
(4) 52000

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number : 7
Sub-Section Id : 632686559
Question Shuffling Allowed : Yes

Question Id : 6326865047 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)

(b) Data Analysis

(Marks : 10)
In a group of 100 persons, each reads at least one among three newspapers T, E and H, 8 read all the three, 20 read both T and E, 18 read both E and H and 14 read both T and H, 60 read E and 46 read T. Based on this data, answer the questions 52-55.

100 మంది కళాదారులు రెండు నవలాలు తెలుగు పత్రికలు T, E, H పై రచించారు రెండు కవితలు కావాలి. 8 మంది మాత్రం రెండు; 20 మంది T, E రెండు; 18 మంది E మిలియన్ H రెండు; 14 మంది T మిలియన్ H రెండు రెండు; E రెండు మిలియన్ T రెండు 46 మంది

ఈ అధ్యాపక 52 మంది 55 విషయాలను ప్రశ్నాంశాలు ప్రశ్నాంశాలు.
How many persons read only H?

H మాంసానీ ఎన్నికైన పనిచేస్తారు?

(1) 16
(2) 14
(3) 17
(4) 18

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 53 Question Id : 6326865049 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

పరిమాణ విశ్లేషణ

(Marks : 10)
How many persons read exactly two among the three E, T and H?

మూడు పంటి మిగిలినా వంటినా పంటి ఎత్తు ఎలా హారిసినా దృశ్యం మంచి
పంటిపైనినా?

(1) 28
(2) 26
(3) 32
(4) 34

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 54 Question Id : 6326865050 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)

డాటా అనాలిసిస్ (మార్క్స్ : 10)
The ratio between the number of persons who read E and T is

E యొక్క ప్రతి ఎక్కడ సంఖ్యలను T యొక్క ప్రతి ఎక్కడ సంఖ్యలను

(1) 30 : 29
(2) 5 : 4
(3) 30 : 23
(4) 24 : 23

Options :
1. ☒ 1
2. ☒ 2
3. ☑ 3
4. ☒ 4

Question Number : 55 Question Id : 6326865051 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 of persons who read T is

T అ ప్రతిభ చదుర్గా అందించారు?

(1) 42
(2) 48
(3) 44
(4) 46

Options:
1. ☑ 1
2. ☑ 2
3. ☑ 3
4. ☑ 4

Sub-Section Number: 8
Sub-Section Id: 632686560
Question Shuffling Allowed: Yes

Question Id: 6326865052 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: (56 to 60)

Coding and Decoding Problems (Marks: 10)
చదుర్గా కాలుదును లాగా చేయండి (మార్క్స్: 10)
In a certain code each consonant is coded as \((n + 4) \mod 26\)th consonant and each vowel is coded as the next vowel cyclically. The reverse process is used for decoding.

Based on this information answer the questions from 56 to 60.

Sub questions

Question Number : 56 Question Id : 6326865053 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**

OVAL is coded as

**OVAL**

Options :

(1) SZEP
(2) UZEP
(3) UZEQ
(4) SZEQ
ICET is coded as

ICET యొక్క చరిత్ర

(1) OGIY
(2) OGIx
(3) SGMX
(4) OGUY

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Which word is coded as ORANGE?

(1) INUJCO
(2) ONUJCA
(3) INUKCA
(4) INUJCA

Coding and Decoding Problems

SECTION is coded as

(1) WIGXOUS
(2) WIGXOUR
(3) WOGXOUR
(4) XIGYOUR
Coding and Decoding Problems  
(Marks: 10)

Which word is coded as BULLET?

BULLET గా భావించండి కింద ప్రకాంచి?

(1) XOHIAP
(2) XOIIP
(3) XUHHAP
(4) XOHHAP

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number: 9
Sub-Section Id: 632686561
Question Shuffling Allowed: Yes
If INPUT is coded as LQSXW then code for COMPUTER is

INPUT లే లోస్కీం సంబంధంలో, COMPUTER లే సంబంధం

(1) FRPSXWHU
(2) FSPMXHWU
(3) FPMSHXWU
(4) FQNTIYZU

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
If PURCHASE is coded as 73429186 and ORDER is coded as 54064, the code for PROCEED is

PURCHASE మా దీనిని ORDER మా 54064 రొంది చేసి,
PROCEED మా చేసి

(1) 7452660
(2) 7354880
(3) 7483550
(4) 7694330

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 63 Question Id : 6326865060 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)
నిర్ధారించండి, నిర్ధారించండి నామానివేయం
(Marks: 10)
If PRIVATE is coded as 1234567 and RISK is coded as 2398, then which of the following is coded as 962347?

PRIVATE 之日起 RISK 之日起 2398 之日起 962347 起之 962347 起之？

(1) SIVERT
(2) RIVETS
(3) STRIVE
(4) REVERT

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Coding and Decoding Problems  (Marks: 10)
చదివి, చదివి విధానం  (మార్క్స్: 10)
If FAILURE is coded as KFNQZWJ, then the code for SUCCESS is

FAILURE మేము  KFNQZWJ కా ఉండాలి ఆయన, SUCCESS కా ఉండటం

(1) YAIKYY
(2) WBJJLWW
(3) XZHHJXX
(4) TVKKLTT

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 65 Question Id : 6326865062 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)
If NATION is coded as 467234 and GREEN is coded as 19554, then the code for INTEGRATION is

NATION ప్రాంతం, GREEN ప్రాంతం, INTEGRATION ప్రాంతం

(1) 24861957234
(2) 24961857234
(3) 24695817234
(4) 24751967234

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number : 10
Sub-Section Id : 632686562
Question Shuffling Allowed : Yes

Question Number : 66 Question Id : 6326865063 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)
సమయం, సమయానం, సమయిక్షేద సమయానం (మార్క్స్ : 10)
The calendar of the year that is identical with the calendar of the year 2005 is

2005 యాంత్రికంగా సరూరతితో చెందిన విశేషాలతో సరూరతి విధానం

(1) 2009
(2) 2010
(3) 2011
(4) 2012

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems
(Marks : 10)
At what time between 4:00 and 4:30 will the hands of a clock be at right angle?

మిగిలినంతప్పుడు 4:00 మధ్యే 4:30 సమయంలో దిశలు మిగిలినంత ఉండకండం ఉంది?

(1) 5 \frac{5}{11} \text{ min. past 5:00}  
5 \text{ మినుట్లకు} 5 \frac{5}{11} \text{ ఉపరుధ్ధం}

(2) 6 \frac{5}{11} \text{ min. past 4:00}  
4 \text{ మినుట్లకు} 6 \frac{5}{11} \text{ ఉపరుధ్ధం}

(3) 5 \frac{4}{11} \text{ min. past 4:00}  
4 \text{ మినుట్లకు} 5 \frac{4}{11} \text{ ఉపరుధ్ధం}

(4) 5 \frac{5}{11} \text{ min. past 4:00}  
4 \text{ మినుట్లకు} 5 \frac{5}{11} \text{ ఉపరుధ్ధం}

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

(d) Date, Time & Arrangement Problems     (Marks : 10)
తిరింగి, సమయదశినీ అంశికుల సంఖ్యలు     (మార్క్స్ : 10)
At what time between 9 o’clock and 10 o’clock will the hands of a clock be together?

(1) 45 minutes past 9  
(2) 50 minutes past 9  
(3) $49\frac{1}{11}$ minutes past 9  
(4) $48\frac{2}{11}$ minutes past 9

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

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

(పట్టణిభాషా : 10)
Mrs. X meets a man at a party who is the brother of the sister of her husband. How is the man related to X?

హిమాని X లో ఒక మన పార్టీలో అతను లోని సిట్‌ లో మన పుస్తకాలు. అతను ఆతి వీటి ఆరు వెంటనే ఎదురు యాజమాన్య చేసి, అమ్మ సరిచే ఎక్కడ తప్ప ఎదురు యాజమాన్య చేసి, అమ్మ ఎంత వీటి అనేక కండి నడి చేసి?

1. Brother-in-law
2. Brother
3. Cousin
4. Father

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems (Marks: 10)
అప్పటి, సమయం, ఏర్పాటు సమాధానాలు (మార్క్స్: 10)
A person A came to the bus stop at 8:10 am and found that he was 40 minutes before the arrival of the bus which was running late by 30 minutes. What was the scheduled arrival time (STA) of the bus?

A ఆర్‌ఎస్‌ఐ చేరి బస్ సట్ప్ లోకి 8:10 ఎంచుకున్నాడు. తన ఆనందం 30 మినుటల పైగా 30 మినుటుల పైగా ఉండాను. తద్వారా ఆర్‌ఎస్‌ఐ బస్ సట్ప్ లోకి 40 మినుటల పైగా ఉండాను అయితే ఎలా కి అభివృద్ధి సాధించాలా? కాను వాస్తవం చేయాలంటే బస్ సట్ప్ కి ఎలా కి ఉండాలా?

(1)  ధ. 8:20 am
(2)  ధ. 8:22 am
(3)  ధ. 8:25 am
(4)  ధ. 8:30 am

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

Question Number : 71 Question Id : 6326865068 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)
Two trains P and Q arrived at station X on same day at 14:35 hours and 15:28 hours, running late by 21 minutes and 12 minutes respectively. Then the time difference between their scheduled arrivals (in minutes) is

(1) 56
(2) 58
(3) 62
(4) 64

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems (Marks : 10)
Six persons A, B, C, D, E and F are sitting around a circular table such that C is sitting to the right of E, and F is to the right of A. If B is sitting to the left of D, and A and C are sitting adjacent to each other, then who is sitting opposite of D?

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

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

(d) Date, Time & Arrangement Problems (Marks : 10)
If the symbols $\alpha, \beta, \gamma$ and $\delta$ stand for arithmetical operations of addition, subtraction, multiplication and division respectively, then

\[
\frac{(42\delta2)\beta(5\gamma4)}{(5\beta4)\alpha(4\delta4)} = \text{ } \]

\[
\alpha, \beta, \gamma \text{ and } \delta \text{ stand for } +, -, \times, \div \text{ respectively, hence we can substitute}
\]

\[
\text{as follows: } + + - - \times \times \div \div
\]

\[
\frac{(42\delta2)\beta(5\gamma4)}{(5\beta4)\alpha(4\delta4)} = \text{ } \]

(1) 0
(2) $\frac{1}{2}$
(3) 1
(4) 2

Options:
1. ✗ 1
2. ☑ 2
3. ✗ 3
4. ✗ 4

Question Number : 74  Question Id : 6326865071  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 $a \times b$ stands for $\frac{1}{a} + \frac{1}{b}$, then $\sum_{n=1}^{10} \left(1 \times \frac{1}{n}\right) =$

$a \times b \equiv \frac{1}{a} + \frac{1}{b}$, so $\sum_{n=1}^{10} \left(1 \times \frac{1}{n}\right) =$

(1) 75  
(2) 55  
(3) 65  
(4) 60

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

Question Number : 75 Question Id : 6326865072 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 $C\Delta D = C^2 + CD + D^2 - (C + D)$, then $7\Delta 8 =$

$C\Delta D = C^2 + CD + D^2 - (C + D)$  
7\Delta 8 =

(1) 169  
(2) 154  
(3) 133  
(4) 172
Mathematical Ability

Section Id : 63268674
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 : 632686563
Question Shuffling Allowed : Yes

Question Number : 76 Question Id : 6326865073 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)
   අරිත්මේටික් ආපාරත්වය (මාක්ස්: 35)

If $3^x = 9^y = 27^z$ and $xyz = 36$, then $x + y + z =$

$3^x = 9^y = 27^z$ එකේ අතුරු $xyz = 36$ එක්, $x + y + z =$

(1) 11
(2) 13
(3) 12
(4) 15

Options : 
Question Number : 77  Question Id : 6326865074  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)
(ఇంటికి తెలుగులో : 35)

If \(2^{n-1} + 2^{n+1} = 320\), then \(n =\)

If \(2^{n-1} + 2^{n+1} = 320\) ఎంపిక పెంచండి, \(n =\)

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

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 78  Question Id : 6326865075  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)
(ఇంటికి తెలుగులో : 35)
If $A:B = 2:3; \ B:C = 6:7 \text{ and } C:D = 4:5$, then $D:A=$

$A:B = 2:3; \ B:C = 6:7 \ \text{and} \ C:D = 4:5 \ \text{訳して,} \ D:A=$

(1) 12 : 41  
(2) 16 : 35  
(3) 35 : 16  
(4) 41 : 12

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 79 Question Id : 6326865076 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 )

(Marks : 35)
An urn contains 60 litres of mixture of milk and water in the ratio 3 : 1. How many litres of water is to be added to this mixture to make the ratio of milk and water as 1 : 3?

(1) 60  
(2) 80  
(3) 100  
(4) 120

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 80 Question Id : 6326865077 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 the arithmetic mean of two surds is $5 + 9\sqrt{2}$ and one of them is $1 + 12\sqrt{2}$, then the square root of the second surd is

(1) $\sqrt{2} + \sqrt{6}$
(2) $\sqrt{6} - \sqrt{3}$
(3) $\sqrt{6} + \sqrt{3}$
(4) $\sqrt{3} + \sqrt{5}$
If \( \sqrt[3]{26 - 15\sqrt{3}} = x - \sqrt{y} \), then \( 3x + 2y = \)

\[ \sqrt[3]{26 - 15\sqrt{3}} = x - \sqrt{y} \quad \text{and} \quad 3x + 2y = \]

(1) 12
(2) 6
(3) 9
(4) 0

Options:
1. √️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 82 Question Id : 6326865079 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 సాంఘార్యం (మార్క్స్ : 35)
The smallest 5 digit number that leaves remainder 11 when divided by 111 is

111 కి ప్రతిభతత్వం, చేయడం 11 అట్టు వేయక పదాలు లేడు

(1) 10112
(2) 10101
(3) 10051
(4) 10001

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 83 Question Id : 6326865080 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
అనుమతన శక్తి
(Marks : 35)
When a number is divided by 13, the remainder is 11. When the same number is divided by 17, the remainder is 9. Then the number is

13 వేయికి హెప్రేమ లేదా రుచి 11, 17 వేయికి హెప్రేమ లేదా రుచి 9 అయితే, అ మూలం

(1) 339
(2) 349
(3) 369
(4) 379

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 84 Question Id : 6326865081 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)
పరిశుభిత శక్తి (మార్క్స్ : 35)
If the LCM of 3, 4, 5, 6, x is 120 and \( x < 120 \), then the largest value of \( x \) among the following is

3, 4, 5, 6, x ∈ \text{Integers} \quad 120 \quad \text{and} \quad x < 120 \quad \text{among,} \quad \text{the} \quad \text{values}

\[ x \quad \text{among,} \quad \text{the} \quad \text{values} \]

(1) 8
(2) 24
(3) 40
(4) 32
Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

(1) 4
(2) 10
(3) 15
(4) 16

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

i) Arithmetical Ability

( Marks : 35)
If \( m^n = 361 \), 'm' and 'n' being natural numbers, which of the following could be a value of \( \frac{(m-n)}{2} \) ?

'(m)' శాస్త్రాలు లేదా సమాసాలు \( m^n = 361 \) తో ఉంటే, తలా తాత్క్షణికంగా తెలిసి యుగ్మం ఉండటం నుండి

\( \frac{(m-n)}{2} \) ఏ విభాగం ఉండటం చాంచడానికి?

(1) 9.5
(2) 180
(3) -8.5
(4) 160

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 87 Question Id: 6326865084 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
అరిహ్మిటికల్ సిల్వర్ట్ పునఃరుద్ధర్త
(Marks: 35)

(MMarks: 35)
\[
\frac{0.099 \times 9.9 \times 0.99 + 0.000001}{0.099 \times 9.9 - 0.0099 + 0.0001} =
\]

(1) 0.99
(2) 0.01
(3) 1.0
(4) 0.90

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 88 Question Id : 6326865085 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) 

అర్థానుష్ఠిత శాస్త్రఓత్సుపం (మార్క్స్ : 35)
The difference between the largest and the smallest of the following numbers is

\[
\begin{array}{cccc}
2 & 2 & 3 & 1 & 5 \\
7'9'11'5'12
\end{array}
\]

(1) \(\frac{14}{63}\)
(2) \(\frac{3}{35}\)
(3) \(\frac{13}{60}\)
(4) \(\frac{1}{45}\)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 89 Question Id : 6326865086 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 \( a = \frac{4}{9}, b = \frac{7}{12}, c = \frac{3}{7}, d = \frac{12}{17} \) and \( e = \frac{1}{2} \) then their descending order is

\[ a = \frac{4}{9}, b = \frac{7}{12}, c = \frac{3}{7}, d = \frac{12}{17} \text{ and } e = \frac{1}{2} \]

(1) \( c, a, e, b, d \)
(2) \( a, b, c, d, e \)
(3) \( e, d, c, b, a \)
(4) \( d, b, e, a, c \)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 90 Question Id : 6326865087 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
(35 marks)

అరైథమిటిక సమస్యలు
(35 marks)
In an election contested by two candidates A and B, A polled 35% of the votes and is defeated by B by 15000 votes. What is the number of votes polled by B?

అనేక ఎన్నికలలో A మరియు B మధ్య సైనా నిందల పంటి 35% అంటే B ని మేల్పడి 15000 పంటి బహుతుడు A ని పంటి, B ని మిగిల్లి వచ్చడం తరువాత ఎంతపై పంటి?

(1) 31000
(2) 32000
(3) 32500
(4) 33000

Options:
1. ☒ 1
2. ☒ 2
3. ☑ 3
4. ☒ 4

Question Number : 91 Question Id : 6326865088 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
      అంశాకంపుల సాధనాలు
      (Marks : 35)

(Marks : 35)
In an examination A scored 25% of marks and failed by 30 marks whereas B scored 50% of the marks and got 20 marks more than the minimum pass marks. What is the minimum percentage of the pass marks?

మేము విద్యార్థులు మాటల్లో అయినది 25% సాగినప్పటికి 30 మార్క్స్ వేరుచేసి అయింది. B అది అయినది 50% సాగించి 20 మార్క్స్ పెరుగుతుంది. నియంత్రిత మార్క్స్ పెరిగిన 20 మార్క్స్ వేరి వాడాలాం. నియంత్రిత మార్క్స్ వేరు ఉండదంతూ కూడా ఎంత మార్క్స్ నించినది?

(1) 30%
(2) 35%
(3) 38%
(4) 40%

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ☑ 4

Question Number : 92  Question Id : 6326865089  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
అధికారిత గణితశాస్త్రం
(Marks : 35)
A man bought a horse and a carriage for Rs.3000. He sold the horse at a gain of 20% and the carriage at a loss of 10%, thereby gaining 2% on the whole. The cost of the horse is (in Rs.)

(1) 1200  
(2) 1300  
(3) 900  
(4) 1100

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 93 Question Id : 6326865090 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)  
అరిధముతలు మాధయమానికి   (ప్రత్యేకించబడిన భాగం : 35)
The profit earned by selling an article for Rs.900 is double the loss incurred when the same article is sold for Rs.450. At what price should the article be sold to make 25% profit?

Options:
1. 600
2. 750
3. 800
4. 900

Question Number : 94 Question Id : 6326865091 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
(35 marks)
(అరిధమిటియల్ ఆధారం) (35 marks)
P, Q and R together started a business. P invests three times as much as Q and Q invests two third of what R invests. What is the share of Q, if the total profit is Rs.12100 (in rupees)?

P, Q, R మూడు కార్యకర్తలు కలిగి, P కీర్తినీ మూడు గంటలు, Q యొక్క మూడు విశేషం 
R యొక్క యాంత్రికతల యొక్క విశేషం 
Q యొక్క యాంత్రికతల యొక్క విశేషం, R యొక్క యాంత్రికతల యొక్క విశేషం 12100 రూ. అమలు చేసిన, Q యొక్క యాంత్రికతల యొక్క విశేషం?

(1) 1600
(2) 2020
(3) 1800
(4) 2200

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 95 Question Id : 6326865092 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)
అక్షాతికి సిద్ధిచ్ఛా (మచిగిలి : 35)
A, B, C, D start a partnership business where A, B and C invested \(\frac{1}{3}rd\), \(\frac{1}{4}th\) and \(\frac{1}{4}th\) of the capital respectively and the rest of the capital by D. If the total profit at the end of the year is Rs.60 lakhs, what is the profit of D (in lakhs)?

A, B, C, D ద్వారా అంధకార వినాయకం ప్రారంభించారు. A, B, C దూరికి వ్యాపార శ్రామం ప్రామాణికంగా రెంటవి\(\frac{1}{2}\) ఎకాది, \(\frac{1}{4}\) ఎకాది, \(\frac{1}{4}\) ఎకాది నిద్రా బాధితం ద్వారా D ప్రామాణికం మారోగ్యం. నందికాసంస్థ నందికా 60 రూపాణీ లక్షలు చెందింది, D అంధకార వినాయకం (లక్షలు)?

(1) 15
(2) 12
(3) 10
(4) 8

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 96 Question Id : 6326865093 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 ప్రశ్నాస్థలు
   (Marks : 35)

   (తెలుగు ప్రశ్నాస్థలు : 35)
Pipe A and B can fill an empty tank in 6 hours and 9 hours respectively. If Pipe A is opened at 10 pm and B one hour thereafter then the tank will be filled at

ప్యాప్‌నియు ఎంపి బిచ్రిం నిర్మాణం రెండు కిలోయార్లు రెండు వర్గాలు. 10 పమ్పు ని ప్యాప్‌నియు చేసలేదు ఎన్నిక్పుడు బిచ్రిం రెండు కిలోయార్లు, అతి శతాబ్ది నిర్మాణం నిర్మాణం

(1) మం.1:00 pm
(2) మం.1:30 pm
(3) మం.2:00 pm
(4) మం.3:00 pm

Options :
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Question Number : 97 Question Id : 6326865094 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
అరధమతి మానవుడు
(Marks : 35)
(మాసిస్తే : 35)
A tank supplies water to a family for 50 days. Due to leak in the tank, 5 litres of water wastage every day and then the supply lasts for 10 days less. For how many days the supply last if 50 litres of water wastage every day?

అనుమతిచే మరియు బాలికలు తొలి 50 తరువాత ప్యాట పోయింది. అంతే కంటే తొలి 5 తరువాత పోయింది తొలి 10 తరువాత పోయింది. అంతే తరువాత 50 తరువాత పోయింది అంటే, ఎంత తరువాత పోయింది?

(1) 20
(2) 25
(3) 22
(4) 24

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 98 Question Id : 6326865095 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
అంకేత సాధనాలు
(Marks : 35)
Two persons A and B start from a point P and walk at the speeds 3 kmph and 4 kmph respectively. B reaches the point Q and returns immediately to meet A at a point R in between P and Q. If P, Q, R are collinear, then the distance between Q and R (in km) is

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

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
Walking at \( \frac{3}{4} \)th of his usual speed a person reaches his office 10 minutes late. What is the time (in minutes) taken by him to reach his office if he walks at his usual speed?

(1) 30  
(2) 32  
(3) 35  
(4) 40

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

Question Number : 100  Question Id : 6326865097  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  
(35 marks)

(అరిథ్మెటికల్ ఐబిలిటీ)  
(మార్క్స్ : 35)
P works twice as fast as Q and R work together. Working together, all three can do a work in 21 days. In how many days can Q and R together do the work?

Q, R అని రేఖలు త్రిగము తాబాడ ఒక నిశాభాగ రావు చేసాం. రెండు వారు త్రిగము 21 మిల్లియన్ పరిమితి చేసాం. Q, R అని రేఖలు త్రిగము ఎంటే ఎంటే నిశాభాగంలో తాబాడని చూపండి?

(1) 48
(2) 63
(3) 54
(4) 72

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 101 Question Id : 6326865098 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)
ఐరాథెంటికల్ ఆసిటెన్సి (మార్క్స్: 35)
A, B and C individually can complete a job in 20, 15 and 25 days respectively. If only one or two persons can be assigned the job who would complete the job quickly?

A, B మే సాధ పని మో పనిమంటపాను మొదలు 20, 15 మే సాధ పనిమంటపాను 25 తేలు పనిమంటపానుయే సాధనం. ఏ సాధనం రేఖా అందించా మనిషి ఏ సాధనం నిమిశినిమంటపాను చేసుకునే పనిమంటపాను నిర్ణయించండి?

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

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 102 Question Id: 6326865099 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)
ABCD is a quadrilateral. AC=12 cm. The perpendicular distances from B and D to AC are 4 cm and 6 cm respectively. Then the area (in cm²) of the quadrilateral ABCD is

ABCD దిశాపత్రి. AC=12 సెం.మీ., B మధ్యభాగం D మధ్యభాగం AC యొక్క 4 సెం.మీ. మధ్యభాగం 6 సెం.మీ. మధ్యభాగం ABCD ద్విస్మాట విస్తరణ (సెం.మీ. జంతు)

(1) 30
(2) 45
(3) 60
(4) 90

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

Question Number : 103 Question Id : 6326865100 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)
అధికారితి శాస్త్రశాస్త్ర (మాత్రము : 35)
The circumference of circle A is $\frac{11}{7}$ times the perimeter of a square with area 784 sq. cm. The area of another circle B whose diameter is half the radius of the circle A, is (in sq. cm.)

784 చ.సమాత్మక వైవిధ్యము ప్రతీదిన వర్ణించి వాటిని $\frac{11}{7}$ స్థాయియత వాటిని చేస్తాం అంటే A. B యొక్క వేర్పరిశ్రామం, లంచి అంటే A అవసరం అంటే B అమరించండి (చ.సమాత్మక వైవిధ్యము)

1. 148
2. 154
3. 162
4. 184

Options:
1. ☒
2. ×
3. ×
4. ×

Question Number : 104 Question Id : 6326865101 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 అబిలిటీ (మార్క్స్ : 35)
A solid metallic sphere of radius 6 cm is melted and moulded into smaller spheres of diameter 4 cm. The number of smaller spheres made are

6 సమీపంలో రహించిన పరిమాణం ముద్రించండి చేయబడిన 4 సమీపంలో
రహించిన పరిమాణం గా పరిమాణం పరిమాణం చాలా, అంచనాకారు ముద్రించలేదు,

(1) 36
(2) 32
(3) 27
(4) 24

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 105 Question Id : 6326865102 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
అనిశ్చిత విశ్లేషణ
(Marks : 35)
The radii of the bases of a cylinder and a cone are in the ratio of 3 : 4, and their heights are in the ratio 2 : 3. Then the ratio of their volumes is

(1) 10 : 8
(2) 9 : 8
(3) 10 : 9
(4) 9 : 7

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 106 Question Id: 6326865103 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)  
(అర్థమేధ నిర్ధారణ) (మార్క్స్: 35)
The curved surface area of a cylinder is 1056 sq.cm. and its height is 28 cm. the volume of the cylinder (in cm$^3$) is

(1) 2168
(2) 3168
(3) 3178
(4) 2688

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 107 Question Id : 6326865104 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)
   అంధకాల్ పరమాణుసారం  (మంచిపాటు : 35)
The surface area of a cylindrical pipe, open at both the ends is 628 sq.cm. Its length is greater than its radius by 15 cm. If the pipe is closed at one end then the amount of water (in cm³) the pipe can hold (taking \( \pi = 3.14 \)) is

\[ \text{Options :} \]

1. 1570
2. 1620
3. 1680
4. 1860

Question Number : 108 Question Id : 6326865105 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
(35 marks)

i) అదృశ్యచుండి సహాయంతో
(35 మార్క్స్)
One diagonal of a rhombus is 20 cm and side of the rhombus is 26 cm. Then the area of the rhombus (in sq.cm) is

(নটী u201a u0112h u0121 নটী u201a u0112h u0121 নটী u201a u0112h u0121 20 সি.মি. নটী u201a u0112h u0121 নটী u201a u0112h u0121 26 সি.মি. নটী u201a u0112h u0121 নটী u201a u0112h u0121 নটী u201a u0112h u0121 নটী u201a u0112h u0121)

(1) 480
(2) 560
(3) 520
(4) 460

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

i) Arithmetical Ability (Marks : 35)
అరిథ్మెటికల్ ప్రాథమికత (మార్క్స్ : 35)
If $0 \leq x \leq 14$ and $11x \equiv 3 \pmod{14}$ then $x =$

$0 \leq x \leq 14 \equiv 3 \pmod{14}$  $x =$

(1) 10  
(2) 11  
(3) 12  
(4) 13

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

Question Number : 110  Question Id : 6326865107  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)

What is the time 100 hours after 7 am?

7 సంవత్సరంలో 100 సంవత్సరం ప్రారంభం మొదటి సంవత్సరం నుండి ఎంత సంవత్సరం?

(1) స. 11 am  
(2) స. 10 am  
(3) స. 11 am  
(4) స. 9 am  

Options:
ii) Algebraic and Geometrical Ability

(ii) ఆగ్రహాంగా గణితాంశానికి (Marks : 30)

If $A = \{3, 4, 5, 6, 7, 8, 9\}$, then the number of subsets of $A$ not containing 6 is

$A = \{3, 4, 5, 6, 7, 8, 9\}$ ఆలేదు, 6 పై ఉన్నిన అంశాలు $A$ నిషేధం చేయడానికి ఎక్కడం

(1) 256
(2) 128
(3) 32
(4) 64

Options:
1. ☒ 1
2. ◦ 2
3. ◦ 3
4. ☒ 4
For two sets $A$ and $B$, if

$$n(A - B) = 14, n(B - A) = 16, n(A \cup B) = 40,$$

then $n(A \cap B) =$

$$n(A - B) = 14, n(B - A) = 16, n(A \cup B) = 40$$

$\text{and}$

$$n(A \cap B) =$$

(1) 20
(2) 15
(3) 10
(4) 8

Options :
1. ☒ 1
2. ☒ 2
3. ✓ 3
4. ☒ 4

Question Number : 113 Question Id : 6326865110 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 one of the roots of the cubic equation \( x^3 + ax^2 + bx + c = 0 \) is -1, then the product of the other two roots is

\[ x^3 + ax^2 + bx + c = 0 \]

\( x = -1 \)

The product of the other two roots is

\[ (1) \quad b + a - 1 \\
(2) \quad b - a + 1 \\
(3) \quad b - a - 1 \\
(4) \quad a - b - 1 \]

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 114 Question Id : 6326865111 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)

(ప్రమాణం : 30)
Suppose $\alpha$ and $\beta$ are the zeros of the polynomial
\[ f(x) = x^2 - 6x + k. \] Then the value of $k$, such that $\alpha^2 + \beta^2 = 40$ is

\[ f(x) = x^2 - 6x + k \quad \text{అనే సమస్యలో రేఖాయింశం డీగ్రీగా అయ్యే సమాధానాలు ఉంది.} \]

\[ \alpha + \beta = 40 \quad \text{మోత్రి విడుదల మూలాలు ఉంటాయి} \]

\begin{align*}
(1) & \quad 2 \\
(2) & \quad 1 \\
(3) & \quad -2 \\
(4) & \quad -1
\end{align*}

Options :
1. ☒ 1
2. ☐ 2
3. ☒ 3
4. ☐ 4

Question Number : 115 Question Id : 6326865112 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
(b) సాంఖ్యికీయ అలాంపక నిర్మాణము నిర్మాణము
If \( x^3 - 4x^2 + ax + b \) is exactly divisible by both \( x - 2 \) and \( x + 1 \), then 
\[(a, b) = \]

\[
x - 2 \quad \text{and} \quad x + 1 \quad \text{imply} \quad x^3 - 4x^2 + ax + b \quad \text{is divisible by} \quad x - 2 \quad \text{and} \quad x + 1,
\]

\[
(a, b) = 
\]

(1) \((-1, 6)\)  
(2) \((1, 6)\)  
(3) \((1, -6)\)  
(4) \((1, 3)\)

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 116 Question Id : 6326865113 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 శాస్త్రాల విభాగం )  
(మార్క్స్ : 30)
If the integer \( n \) is divided by 3, the remainder is 2. Then, the remainder when \( 7n \) is divided by 3 is

\[ \text{వర్గాలు ఈ నంతర అంచె ఆసి ఉంటుంది, ఇది మరొక అంశం ఉంటాయి} \]

(1) 3
(2) 2
(3) 6
(4) 4
A person bought 29 postal stamps of Rs.5 and Rs.10 by paying Rs.200. The difference between the number of stamps be bought with that money is

(1) 10  
(2) 9  
(3) 8  
(4) 7

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 118  Question Id : 6326865115  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, జ్యాృథిత్త్రా నిర్ధారణ (మార్క్స్ : 30)
Six years ago, the age of a person was two years more than five times, the age of his son. Four years hence, his age will be two years less than three times the age of his son. After how many years from now will their combined age be 100 years?

(1) 48
(2) 14
(3) 19
(4) 38

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 119 Question Id : 6326865116 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 పరిశీలనత్వం, విభేద శాస్త్రం) (మాధ్యమిక గ్రామాస్థ్యం : 30)
If $2^x = 4^y = 16^z$ and $xyz = 1728$, then $5x + 3y + 2z =$

$2^x = 4^y = 16^z$ అభిప్రాయం $xyz = 1728$ అందించండి,

$5x + 3y + 2z =$

(1) 148
(2) 168
(3) 172
(4) 184

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 120 Question Id : 6326865117 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
అగ్స్ట్రియిక్ అంధరాల సాధనాలు

(Marks : 30)
The sum of the first $n$ terms of a sequence is given by $5n^2 + 2n$. Then the $10^{th}$ term of this sequence is

మేమించిన సమస్యలో $n$ డిస్కి సమస్య $5n^2 + 2n$ ఉంటుంది. అది మేమించిన $10^{th}$ సంఖ్యా మేమించిన సమస్యలో సమస్య.

(1) 87
(2) 97
(3) 107
(4) 117

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 121 Question Id : 6326865118 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)
ప్రత్యేక గణితములు సంఖ్యా శాస్త్రాలు  (మేమించిన : 30)
If 9 times the 9th term of an arithmetic progression is equal to 13 times the 13th term, then the 22nd term of the arithmetic progression is

(1) 0  
(2) 22  
(3) 22  
(4) 198  

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

Question Number : 122  Question Id : 6326865119  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)  

(_marks : 30)
\[
\frac{\cos 690^\circ + \cot 210^\circ + \cos 420^\circ}{\sin 690^\circ + \sec 210^\circ + \tan 420^\circ} = \\
\]

(1) \(11(2 - \sqrt{3})\)
(2) \(13(2 + \sqrt{3})\)
(3) \(11(2 + \sqrt{3})\)
(4) \(13(2 - \sqrt{3})\)

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 123 Question Id : 6326865120 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)

\[
\frac{1}{\sqrt{3}} \sin 300^\circ + \tan 855^\circ + \frac{3}{4} \sec 780^\circ = \\
\]

(1) \(\frac{\sqrt{3}}{2}\)
(2) 0
(3) -3
(4) 2

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
If in a \( \triangle ABC \), \( A + B = C \), then \( \tan A \cdot \tan B \cdot \tan C = \)

\[ \Delta ABC \text{ ప్రశ్నాంశం } A + B = C \text{ అయితే, } \tan A \cdot \tan B \cdot \tan C = \]

1. \( \tan A + \tan B + \tan C \)
2. \( \tan A - \tan B - \tan C \)
3. \( \tan B - \tan C - \tan A \)
4. \( \tan C - \tan B - \tan A \)

Options:
1. \( \times 1 \)
2. \( \times 2 \)
3. \( \times 3 \)
4. \( \checkmark 4 \)
\[ x + \frac{1}{x} = 2 \cos \theta \Rightarrow x^3 + \frac{1}{x^3} = \]

(1) \(2 \cos 3\theta\)

(2) \(\cos 3\theta\)

(3) \(3 \cos 3\theta\)

(4) \(3 \cos 2\theta\)

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 126 Question Id : 6326865123 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) విశుభాగం, వృత్తి విభాగం  (Marks : 30)

(ప్రయోగానికి : 30)
A man standing at 50m on the tower of a ship observes the angle of depression of 2 boats on either side of the ship to be 30° and 60° respectively. The distance (in meters) between the boats is

\[
\frac{100}{\sqrt{3}}
\]

\[
\frac{150}{\sqrt{3}}
\]

\[
\frac{200}{\sqrt{3}}
\]

\[
\frac{250}{\sqrt{3}}
\]

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 127 Question Id : 6326865124 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)
In the given figure $l_1, l_2$ are two intersecting lines at $O$ and $l_3$ is a horizontal through $O$. The value of $x$ (in degrees) is

\[ x = \begin{cases} 
45 & \text{(1)} \\
55 & \text{(2)} \\
75 & \text{(3)} \\
85 & \text{(4)} 
\end{cases} \]

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

Question Number : 128 Question Id : 6326865125 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)
(ii) ఆధునికాన్నికమైన విభిన్న వాటి (మార్క్స్ : 30)
In the given triangle if $\angle ABC = \angle BDC = 90^\circ$ and $BD = AD$, 
Then $x =$

\[ \text{వంటి వ్యాసాంగా యొక్క \( \angle ABC = \angle BDC = 90^\circ \) మాత్రమే \( BD = AD \) ద్వారా, \( x = \) } \]

(1) 15
(2) 30
(3) 45
(4) 60

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

**Question Number : 129 Question Id : 6326865126 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)
అంశాలు, ఆకాశాల సంఖ్యాయత (మాస్కింగ్ : 30)
The diagonal of a square is $16\sqrt{2} \text{ cm}$. Its area (in sq. cm) is

(1) 16
(2) 64
(3) 256
(4) 512

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 130 Question Id : 6326865127 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 area of a rhombus whose side is 50 m and one of its diagonals 80 m (in sq.m.) is

(హోము నుండి 50 మీ. మరియు ఒక ప్రత్యేక నుండి 80 మీ. కూడా నిలిచి నుండి
నాములుకోవడం పొందడం (మి.మి.చుట్టు))

(1) 1600
(2) 2000
(3) 2400
(4) 4800

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 131 Question Id : 6326865128 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
సంఖ్యాశాస్త్రాల మరియు వృత్తి శక్తి
(Marks : 30)
(మాటలు : 30)
In the following circle with center O, if \( \angle ABC \) is 115°, then \( \angle AOC = \)

\[ \text{O రేఖాభాగాన్ని చేసే దిశాయిత్రి \( \angle ABC \) అంటే 115° అంశాన్ని \( \angle AOC = \)} \]

(1) \( 57\frac{1}{2}^\circ \)
(2) 115°
(3) 130°
(4) 160°

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

**ii) Algebraic and Geometrical Ability**

(_marks : 30)
The area of the circle centred at (1, 2) and passing through the point (4, 6) is (in sq. units)

\[(1,2)\text{ రేఖెత్తు రేఖెత్తు (4, 6) విస్తృతిని కొలత బట్టి విస్తృతి ఇంచాలు (చ.సా.మి.)}\]

\[
\begin{align*}
(1) & \quad 5\pi \\
(2) & \quad 10\pi \\
(3) & \quad 25\pi \\
(4) & \quad 20\pi \\
\end{align*}
\]

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 133 Question Id : 6326865130 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(4, 2), B(6, 5), C(1, 4) are the vertices of $\Delta ABC$. If the median from A meets BC at D, then $AD^2 : BC^2 =$

$A(4, 2), B(6, 5), C(1, 4)$ గ్రాఫ్‌లో ఉన్న మిశ్రిత విభిన్న భువనస్థలం $\Delta ABC$ ను ఆంధ్రంగా వాదించాయున్న భూమించే, BC ను D విశేషాల ప్రత్యేకంగా వాదించాయున్న $AD^2 : BC^2 =$

(1) 1 : 4
(2) 5 : 14
(3) 4 : 13
(4) 3 : 10

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 134 Question Id: 6326865131 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)
విభిన్నపదాలను నిర్మాణం చేయడానికి ( Marks: 30)
The equation of the perpendicular bisector of the line obtained by joining the points $(1, 1)$ and $(3, 5)$ is

$$(1, 1) \text{ and } (3, 5)$$

$$x = \frac{1 + 3}{2} = 2$$

$$y = \frac{1 + 5}{2} = 3$$

The perpendicular bisector is given by the equation of the line passing through the midpoint of the line segment with a slope perpendicular to the line joining the two points. The slope of the line joining $(1, 1)$ and $(3, 5)$ is

$$m = \frac{5 - 1}{3 - 1} = 2$$

The slope of the perpendicular bisector is the negative reciprocal of $2$, which is $-\frac{1}{2}$. Using the point-slope form of a line, $y - y_1 = m(x - x_1)$, with the midpoint $(2, 3)$ as $(x_1, y_1)$, we get

$$y - 3 = -\frac{1}{2}(x - 2)$$

Simplifying,

$$2y - 6 = -x + 2$$

$$x + 2y - 8 = 0$$

The correct option is (3).
A point C divides the line joining the points A(1, 3) and B(2, 7) internally in the ratio 3 : 4. The equation of the line passing through C and parallel to the line $2x + 7y = 4$ is

A(1, 3) विस्तीर्ण B(2, 7) अंतर्गत विभाजित 3 : 4 गुणितीय विभाजन C करते हुए पृथक 2x + 7y = 4 के लिए लाइन का समीकरण

$2x + 7y = 4$ के लाइन के सापेक्ष लाइन का समीकरण

(1) $7x - 2y - 142 = 0$
(2) $2x + 7y - 56 = 0$
(3) $14x + 49y - 251 = 0$
(4) $2x - 7y + 56 = 0$

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 136 Question Id : 6326865133 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)
అంధకార రంగం సమాధానాలు (మార్క్స్ : 30)
The equation of line passing through the origin and is inclined at an angle of 30° to the X-axis

(1) \( y = x \)
(2) \( \sqrt{3}y = x \)
(3) \( y = \sqrt{3}x \)
(4) \( x + y = 0 \)

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

ii) Algebraic and Geometrical Ability (Marks : 30)

(ప్రమాణాల రూపాలు, వస్త్రమత్తు) (మార్క్స్ : 30)
The equation of the line passing through the points \((1, \sqrt{3})\) and \((\sqrt{3}, 3)\) is

\[(1, \sqrt{3}), (\sqrt{3}, 3) పోటిసే నియంత్రణ పరిధితో నియంత్రణ తక్కువ పెట్టిన అడుగులు\]

(1) \(y = x\)
(2) \(x + y = 0\)
(3) \(y - \sqrt{3}x = 0\)
(4) \(\sqrt{3}y + x = 0\)

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 138 Question Id : 6326865135 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)
శాస్త్రీయ అధ్యయన శాస్త్ర సాంఘికత్వం  (మార్క్స్ : 30)
If \( m \) denotes the slope and \( c \) denotes the intercept of a line then \((m, c)\) for the line \(7x - 11y - 23 = 0\) is

\[ m \text{ రేఖా దిశాపు పాంచి, } c \text{ రేఖా రైతి విలుపు పాంచి } 7x - 11y - 23 = 0 \]

\[ \text{మరియు } (m, c) = \]

1. \( \left( \frac{-7}{11}, \frac{-23}{11} \right) \)
2. \( \left( \frac{-7}{11}, \frac{23}{11} \right) \)
3. \( \left( \frac{7}{11}, \frac{23}{11} \right) \)
4. \( \left( \frac{7}{11}, \frac{-23}{11} \right) \)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
The intercept made by the line joining the points (1, 11) and (-3, -5) on the Y-axis is

(1, 11), (-3, -5) వంటినాలను వేసుకోవడానికి దినిన యింద యింద రేటు మొదలు అవసరం

(1) 7
(2) -7
(3) \(-\frac{7}{4}\)
(4) 4

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 140 Question Id : 6326865137 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)
విశాలంగం, భూమిగణిత శాస్త్రాలు (మార్క్స్ : 30)
The equation of the line passing through the point of intersection of the
lines $2x + 3y - 4 = 0$; $5x - 2y + 6 = 0$ having slope $\frac{-2}{3}$ is

$$ax + by + c = 0, \text{ then } \frac{5a+6b}{c} =$$

$$2x + 3y - 4 = 0; 5x - 2y + 6 = 0 \text{ నిర్దేశానికి విభాగానను కొలుపుతుంది ఉంది}$$

$$\text{మాత్రమే సమీఖ్యించాలని నిషేధం అయితే } ax + by + c = 0$$

$$\Rightarrow \frac{5a+6b}{c} =$$

(1) 7
(2) -7
(3) $\frac{27}{4}$
(4) $\frac{-27}{4}$

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 3
Sub-Section Id : 632686565
Question Shuffling Allowed : Yes

Question Number : 141 Question Id : 6326865138 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)
The arithmetic mean of the first twenty natural numbers is

మూడ్చిది 20 నాట సంఖ్యల మధ్య సమాధానం

(1) 10
(2) 10.5
(3) 11
(4) 11.5

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 142 Question Id: 6326865139 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
మొత్తపరిసరం సమాధానం
(Marks: 10)
After calculating the arithmetic mean of 25 integers as 73, it was observed that two integers were wrongly taken 76 and -23 instead of -76 and 23 respectively. Then the correct arithmetic mean is

(1) 77.24  
(2) 70.88  
(3) 68.76  
(4) 75.12

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

Question Number : 143 Question Id : 6326865140 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)
The average height of 30 men is 158 cm and average height of another group of 40 men is 162 cm, then the average height of the combined group is

30 మాణిక్యాల మధ్య సుమారు 158 ఎంచు. మాణిక్యాల 40 మాణిక్యాల మధ్య ఆధారం సుమారు 162 ఎంచు. అయితే, 
సమాంతమైన సమూహం యొక్క లక్ష్యం ఉంటుంది (160.27 ఎంచు)

(1) 161
(2) 165.16
(3) 160.28
(4) 163

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 144 Question Id : 6326865141 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)
సంఖ్యా శాస్త్రం సమాచారం  (ప్రత్యేకం : 10)
The median of the following set of observations is
1, 3, 5, 7, ..., 97

(1) 45
(2) 47
(3) 49
(4) 51

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 145 Question Id : 6326865142 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)
సంఖ్యాశాస్త్ర సమస్యలు సమస్యలు (మాధ్యమి : 10)
The median of the following frequency distribution is

<table>
<thead>
<tr>
<th>Class Interval</th>
<th>2-6</th>
<th>6-10</th>
<th>10-14</th>
<th>14-18</th>
<th>18-22</th>
<th>22-26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>6</td>
<td>9</td>
<td>13</td>
<td>10</td>
<td>12</td>
<td>10</td>
</tr>
</tbody>
</table>

(1) 14.0
(2) 14.8
(3) 16.8
(4) 17.0

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
The mode of the following data is
1, 13, 6, 9, 11, 13, 5, 8, 13, 14, 5, 8, 13, 6, 13

(1) 12
(2) 13
(3) 14
(4) 15

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 147 Question Id : 6326865144 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

సంసార విభిన్నాల విశ్లేషణ

(Marks : 10)
The arithmetic mean and the median of a frequency distribution are 51 and 50 respectively. Then the value of the Mode is

51 and 50 are given, then the mode is

1. 56
2. 53
3. 48
4. 45

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Correct Marks : 1 Wrong Marks : 0

ii) Statistical Ability

( Marks : 10)
The probability of getting 2 heads in a toss of 5 coins is

\[ \frac{2}{5} \]

Options:
1. \( \frac{2}{5} \)
2. \( \frac{3}{9} \)
3. \( \frac{5}{9} \)
4. \( \frac{5}{16} \)

Question Number : 149 Question Id : 6326865146 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

సాంఘారిక శక్తి

(Marks : 10)
The probability that 3 boys and 3 girls can be seated in a row such that all the boys sit together side by side, is

(1) \( \frac{1}{3} 

(2) \frac{1}{5}

(3) \frac{1}{6}

(4) \frac{3}{5}

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 150 Question Id : 6326865147 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)
A bag has 4 white, 5 black and 6 red balls. The probability of drawing a ball which is white or black is

4 + 5 = 9
9

(1) $\frac{4}{45}
(2) \frac{1}{15}
(3) \frac{4}{5}
(4) \frac{3}{5}

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Communication Ability

Section Id : 63268675
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 : 632686566
Question Shuffling Allowed : Yes

Question Number : 151 Question Id : 6326865148 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
His ____ services were appreciated by his colleagues.

(1) exemplary
(2) exorbitant
(3) careless
(4) indifferent

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

The change was indiscernible.

The underlined word means

(1) That which could not be seen.
(2) That which could not be touched.
(3) That which could not be felt.
(4) That which could not be talked of.

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
I don’t know why she is always so belligerent towards me.

The underlined word means

(1) Ready to suspect.
(2) Ready to support.
(3) Ready to guide.
(4) Ready to fight.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

He turned nostalgic at the mention of school.
The underlined word means

(1) Deep rooted fear of past.
(2) Deep rooted fear of future.
(3) Wistful affection for future.
(4) Wistful affection for past.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
The mechanism of this watch is very **intricate**.
The underlined word means.

(1) limited  
(2) complex  
(3) functional  
(4) original

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

**Sub-Section Number:** 2  
**Sub-Section Id:** 632686567  
**Question Shuffling Allowed:** Yes

**Question Number:** 156  
**Question Id:** 6326865153  
**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

**Synonym of ‘incisive’**

(1) irrelevant  
(2) immodest  
(3) shallow  
(4) sharp

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

**Question Number:** 157  
**Question Id:** 6326865154  
**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
Choose appropriate synonym for 'debilitate'

(1) weaken
(2) enliven
(3) strengthen
(4) stimulate

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 158 Question Id : 6326865155 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

Choose appropriate antonym for 'alacrity'

(1) mediocrity
(2) eagerness
(3) apathy
(4) enthusiasm

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 159 Question Id : 6326865156 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
Synonym of ‘Espionage’

(1) borrowing
(2) helping the elderly
(3) practice of lying
(4) practice of spying

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Question Number : 160 Question Id : 6326865157 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

Choose appropriate synonym for deadlock.

(1) impasse
(2) break through
(3) resumption
(4) continuation

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Sub-Section Number : 3
Sub-Section Id : 632686568
Question Shuffling Allowed : Yes

Question Number : 161 Question Id : 6326865158 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)
Both the father and his son _____ at the gym yesterday.

(1) have been  
(2) are  
(3) were  
(4) was  

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

Question Number : 162 Question Id : 6326865159 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  

She _____ lunch just now.

(1) has served  
(2) served  
(3) had served  
(4) was serving  

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

Question Number : 163 Question Id : 6326865160 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
Just as I _____ into the bathroom, all lights went off.

(1) got  
(2) get  
(3) getting  
(4) have got

Options:
1. ✔  
2. ✗  
3. ✗  
4. ✗

Question Number: 164  Question Id: 6326865161  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

Insert a verb in the present tense.

The Earth _____ round the Sun.

(1) is revolving  
(2) has been revolving  
(3) had been revolving  
(4) revolves

Options:
1. ✗  
2. ✗  
3. ✗  
4. ✔

Question Number: 165  Question Id: 6326865162  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
Passive voice of ‘I will contact you tomorrow.’

(1) Tomorrow, I will contact you.
(2) Let you be contacted tomorrow.
(3) You will be contacted by me the next day
(4) Let me contact you tomorrow.

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Sub-Section Number: 4
Sub-Section Id: 632686569
Question Shuffling Allowed: Yes

Question Number: 166 Question Id: 6326865163 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.166 to Q.No.170

I had to _____ to clear the competitive exams.

(1) cook up
(2) build castles in the air
(3) call a spade a spade
(4) burn the midnight oil

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Question Number: 167 Question Id: 6326865164 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.166 to Q.No.170
Select the most appropriate meaning of the underlined phrase

A discussion was going on whether it was ethical to delve into social media posts to look for damaging details about an employee.

(1) talk about  
(2) examine in detail  
(3) prepare  
(4) decide about

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

He _____ as soon as he heard their car turn into the drive way.

(1) made up  
(2) made for  
(3) made off  
(4) made out

Options:
1. ☒ 1  
2. ☒ 2  
3. ☒ 3  
4. ☒ 4
Their government imposed emergency on account of economic crisis. The equivalent of the underlined word is:

(1) clamped down
(2) brought forward
(3) intended to
(4) plagued by

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

They have ____ the decision for another month.

(1) put out
(2) put off
(3) put up
(4) put in

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

Their government imposed emergency on account of economic crisis. The equivalent of the underlined word is:

(1) clamped down
(2) brought forward
(3) intended to
(4) plagued by

They have ____ the decision for another month.

(1) put out
(2) put off
(3) put up
(4) put in
I waited for _____ hour and left.

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

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 172 Question Id: 6326865169 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

_____ Ganges flows through India.

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

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 173 Question Id: 6326865170 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
The Alps are in Switzerland.

1. an
2. up
3. the
4. with

Options:
1. ❌ 1
2. ❌ 2
3. ✓ 3
4. ❌ 4

I ran _____ him on my way back home.

1. in
2. into
3. along
4. across

Options:
1. ❌ 1
2. ✓ 2
3. ❌ 3
4. ❌ 4
Is there _____ university in your town?

(1) an
(2) a
(3) the
(4) none of the above

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

Sub-Section Number: 6
Sub-Section Id: 632686571
Question Shuffling Allowed: Yes

Question Number: 176 Question Id: 6326865173 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 tiny wafer of silicon containing miniature electric circuits that can store millions of bits of information is known as ______.

(1) chip
(2) cookie
(3) crash
(4) cyberspace

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

Question Number: 177 Question Id: 6326865174 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
India’s first super computer is called ____.

(1) MIRA  
(2) AGNI  
(3) VAYU  
(4) PARAM

Question Number : 178  Question Id : 6326865175  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 program arranged in rows and columns that manipulates numbers is known as ______.

(1) tool bar  
(2) menu  
(3) window  
(4) spreadsheet

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

Question Number : 179  Question Id : 6326865176  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
The first mechanical computer designed by Charles Babbage was called ______.

(1) Abacus  
(2) Calculator  
(3) Processor  
(4) Analytical engine

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

Question Number : 180 Question Id : 6326865177 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 device that transfers data between computer networks to provide access to the internet is known as ______.

(1) printer  
(2) router  
(3) hard drive  
(4) disk drive.

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

Sub-Section Number : 7  
Sub-Section Id : 632686572  
Question Shuffling Allowed : Yes

Question Number : 181 Question Id : 6326865178 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
Expected profitability of a company or a single product is assessed by a _____.

(1) brand equity  
(2) brand recognition  
(3) business plan  
(4) break-even analysis

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

Question Number : 182 Question Id : 6326865179 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

A type of correspondence used when a business firm has to convey a common matter to a large audience is known as _____.

(1) personalized correspondence  
(2) routine correspondence  
(3) marketing letter  
(4) circular

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

Question Number : 183 Question Id : 6326865180 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
A series of workers and machines in a factory by which a succession of identical items is progressively assembled is called ______.

(1) franchise  
(2) assembly line  
(3) production line  
(4) supply chain

Options:
1.  
2. ✓ 2
3.  
4.  

Which company / business did Elon Reeve Musk acquire in 2022?

(1) Twitter  
(2) Space X  
(3) Tesla  
(4) Neural ink

Options:
1. ✓ 1
2.  
3.  
4.  

Question Number : 184 Question Id : 6326865181 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

Question Number : 185 Question Id : 6326865182 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 financial statement that shows sales, cost of sales, gross margin, operating expenses and profits or losses is known as _____.

(1) Inventory turnover  
(2) Market Development Strategy  
(3) Income Statement  
(4) Market Sales Potential

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Sub-Section Number: 8  
Sub-Section Id: 632686573  
Question Shuffling Allowed: Yes

Question Id: 6326865183  
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: (186 to 190)

Read the Passage and answer the questions Q.No.186 to Q.No.190
Walls and wall building have played a very important role in Chinese culture. Not only towns and villages, the houses and the temples within them were somehow walled. The houses also had no windows overlooking the street, thus giving the feeling of wandering around a huge maze. Thus, a great and extremely laborious task of constructing a wall that runs the length of the country must not have seemed such an absurdity.

Various dynasties contributed to constructing and refurbishing of a wall whose foundations had been laid many centuries ago. It was during the 4th and 3rd century B.C. that each warring states like Chin, the Chao and the Yen started building walls to protect their kingdoms both against one another and against northern nomads. They also laid foundations on which Chin Shih Huang Di would build his first continuous Great Wall.

Throughout the centuries many settlements were established along the border. The garrison troops were instructed to reclaim wasteland and to plant crops in it, build roads and canals. All these undertakings greatly helped increase the country’s trade with many remote areas and also with southern central, and western parts of Asia.

Sub questions

Question Number : 186 Question Id : 6326865184 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

Read the Passage and answer the questions Q.No.186 to Q.No.190

Chinese towns resemble a maze because

(1) They are walled.
(2) The houses there have no external windows.
(3) Walls are important for them.
(4) They have temples.

Options :
1. ✗ 1
Constructing a wall that ran the length of the country

(1) was an absurd idea.
(2) was an imported idea.
(3) was an easy task.
(4) made sense in Chinese culture.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

The Great Wall of China

(1) was built by modern Chinese government.
(2) was built by a single dynasty.
(3) is a single architectural structure.
(4) was built by the Chin, the Chao and the Yen dynasties.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
Crops were planted

(1) in remote villages.
(2) in cities.
(3) on reclaimed wasteland.
(4) along the canals.

Options:
1. ☒ 1
2. ☒ 2
3. ✔ 3
4. ☒ 4

The Great Wall helped in

(1) developing trade inside China only.
(2) developing trade within China as well as with other lands.
(3) developing trade outside China only.
(4) coming in the way of trade.

Options:
1. ☒ 1
2. ✔ 2
3. ☒ 3
4. ☒ 4
Before the grass has thickened on the roadside and leaves have
started growing on the tree as is a perfect time to see, how dirty
Britain has become. The pavements are stained with chewing gum,
the gutters are full of discarded fast-food cartons. Years ago, I
remember travelling abroad and being saddened by plastic bags,
discarded bottles and soiled nappies at the edge of every road.
Nowadays, Britain seems to look at least as bad.

The problem is that the rubbish created by our increasingly mobile
lives lasts a lot longer than before. It stays in the undergrowth for
years; a reminder of what a tatty little country we have become now.

It is estimated that 10 billion plastic bags have been given to shoppers.
These will take anything from 100 to 1000 years to rot. However, it is
not as if there is no solution to this. A few years ago, the Irish
government introduced a tax on non-recyclable carrier bags and in
three months reduced their use by 90%. When he was a minister,
Michael Meacher attempted to introduce a similar arrangement in
Britain. The plastics industry protested, of course, the idea was killed
before it could draw breath.

Sub questions

Read the Passage and answer the questions Q.No.191 to Q.No.195
It is perfect time to see Britain before the trees have leaves because

1. Britain looks the prettiest.
2. one can see how dirty Britain is.
3. grass will not block the roads.
4. Britain looks tidy.

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 192 Question Id : 6326865191 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

Read the Passage and answer the questions Q.No.191 to Q.No.195

According to the writer

1. Britain was better earlier, now has worsened.
2. Britain was worse earlier, now has become better.
3. Other countries were better.
4. Other countries were worse.

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 193 Question Id : 6326865192 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

Read the Passage and answer the questions Q.No.191 to Q.No.195
Micheal Meacher

(1) Did not follow any model to tax the plastic bags.
(2) Tried to follow the Irish example on tax on plastic bags.
(3) Made no attempt to tax plastic bags.
(4) Gave incentive for production of plastic bags.

Options:

1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 194 Question Id : 6326865193 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
Read the Passage and answer the questions Q.No.191 to Q.No.195

Passage is about

(1) The uses of plastic.
(2) Plastic revolution.
(3) The menace of plastic.
(4) Air pollution.

Options:

1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 195 Question Id : 6326865194 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
Read the Passage and answer the questions Q.No.191 to Q.No.195
Choose the synonym for the word ‘tatty’.

(1) clean  
(2) smart  
(3) clever  
(4) shabby  

Options:
1. ☑  1  
2. ☐  2  
3. ☐  3  
4. ☑  4  

Sub-Section Number: 10  
Sub-Section Id: 632686575  
Question Shuffling Allowed: Yes  

Question Id: 6326865195  
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: (196 to 200)  

Read the Passage and answer the questions Q.No.196 to Q.No.200  

Presumption is our natural and original disease. The most wretched and frail of all creatures is man, and the proudest. He sees himself lodged in the dirt and filth of the world, nailed and riveted to the worst part of the universe, and yet in his imagination will be placing himself above the circle of the moon, and bringing heaven under his feet.

It is by the vanity of the same imagination that he equals himself to God; attributes to himself divine qualities, withdraws and separates himself from the crowd of other creatures, cuts out the shares of animals and distributes to them such portion of faculties and force as himself thinks fit.

All that seems strange to us and that we do not understand, we condemn. The same thing happened also in the judgment we make of beasts; they have several conditions like to ours; from those we may by comparison draw some conjecture: but those qualities which are particular to themselves, how know we what to make of them.
In this passage, ‘presumption’ means

(1) Misunderstanding
(2) Understanding
(3) Sumptuousness
(4) Consumption

Who or which is the weakest and the most arrogant among living creatures?

(1) Elephant
(2) Dog
(3) Snake
(4) Man
Correct Marks : 1 Wrong Marks : 0
Read the Passage and answer the questions Q.No.196 to Q.No.200

Man’s greatness is at its best ________.

(1) real
(2) glorious
(3) imaginary
(4) emphatic

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 199 Question Id : 6326865199 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
Read the Passage and answer the questions Q.No.196 to Q.No.200

We condemn what we cannot ________.

(1) comprehend
(2) invent
(3) concoct
(4) contradict

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 200 Question Id : 6326865200 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
Read the Passage and answer the questions Q.No.196 to Q.No.200
Our judgement of the animal is ________.

(1) practical
(2) prejudicial
(3) wonderful
(4) judicious

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4