

# CMAT 2024

## Actual Question Paper with Solutions | Slot 1



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**Section: Quantitative Techniques and Data Interpretation**

1. QUESTION

Following 3 questions are based on the information given below.

There are 240 students in an engineering college. Each student opted for exactly one of three specialisations among Computer Science, Mechanical and Electronics. The total number of students who opted for Computer Science and Electronics is equal to the number of students who opted for Mechanical. 42-5% students who opted for Mechanical are girls. The number of girls who opted for Computer Science is one-third the number of boys who opted for Mechanical. The difference between the number of boys who opted for Electronics and the number of girls who opted for Computer Science is equal to the difference between the number of boys who opted for Computer Science and the number of girls who opted for Electronics. The number of girls who opted for Electronics is 28.

By what percent is the number of boys who opted for mechanical is more than the total number of students who opted for electronics ?

- A)15%
- B)12%
- C)13.5%
- D)17.5%

2. QUESTION

There are 240 students in an engineering college. Each student opted for exactly one of three specialisations among Computer Science, Mechanical and Electronics. The total number of students who opted for Computer Science and Electronics is equal to the number of students who opted for Mechanical. 42-5% students who opted for Mechanical are girls. The number of girls who opted for Computer Science is one-third the number of boys who opted for Mechanical. The difference between the number of boys who opted for Electronics and the number of girls who

opted for Computer Science is equal to the difference between the number of boys who opted for Computer Science and the number of girls who opted for Electronics. The number of girls who opted for Electronics is 28.

The number of girls who opted Mechanical is how much percent of number of students who opted Electronics?

- A)75%
- B)80%
- C)85%
- D)90%

3. QUESTION

There are 240 students in an engineering college. Each student opted for exactly one of three specialisations among Computer Science, Mechanical and Electronics. The total number of students who opted for Computer Science and Electronics is equal to the number of students who opted for Mechanical. 42-5% students who opted for Mechanical are girls. The number of girls who opted for Computer Science is one-third the number of boys who opted for Mechanical. The difference between the number of boys who opted for Electronics and the number of girls who opted for Computer Science is equal to the difference between the number of boys who opted for Computer Science and the number of girls who opted for Electronics. The number of girls who opted for Electronics is 28.

By what percent is the number of boys who opted for Mechanical is more than the total number of students who opted for Electronics?

- A)15%
- B)12%
- C)16.5%
- D)14.5%

4. QUESTION

Arrange the following in increasing order:

1.  $4\sqrt{3}$
2.  $3\sqrt{2}$
3.  $6\sqrt{5}$
4.  $6\sqrt{7}$

Choose the correct answer from the options given below:

- A)  $A < D < B < C$
- B)  $B < C < A < D$
- C)  $A < C < B < D$
- D)  $B < A < C < D$

5. QUESTION

If the digit in the unit's place of a two-digit number is halved and the digit in ten's place is doubled, the number thus obtained is equal to the number obtained by interchanging the digits. Which of the following is definitely true?

- A) Digits in the units place and the tens place are equal.
- B) Sum of digits is a two-digit number
- C) Digit in the units place is half of the digit in the tens place
- D) Digit in the unit's place is twice the digit in the tens place

6. QUESTION

Given below are two statements:

Statement I:

In order to get a mixture worth 16-5/kg, a grocer needs to mix two varieties of pulses costing 15 and 20 per kg respectively in the ratio 7:3.

Statement II:

A merchant has 1000 kg rice, part of which he sells at 8% profit and the rest at 16% profit. He gains 14% on the whole. The quantity of rice sold at 16% profit is 750 kg. In the light of the above statements,

choose the correct answer from the option given below:

- A) Both Statement I and Statement II are true

- B) Both Statement I and Statement II are false
- C) Statement I is true but Statement II is false
- D) Statement I is false but Statement II is true

7. QUESTION

- (A) If  $1/X : 1/Y : 1/Z = 2 : 3 : 5$ , then  $(x / y) / z = 15:10:6$
- (B) If  $4p = 6q = 9r$  then  $(p / q) / r = :9:6:4$
- (C) If  $2A = 3B = 4C$  then  $(A / B) / C = 3:4:6$
- (D)  $P:Q :R = 2:3:4$  then  $P/Q:Q/R:R/P=9:8:24$

Choose the correct answer from the options given below:

- A) (C) only
- B) (D) only
- C) (A) and (B) only
- D) (C) and (D) only

8. QUESTION

A glass jar contains 1 red, 3 green, 2 blue and 4 yellow marbles. If a single marble is chosen at random from the jar

- (A) Probability of getting a yellow marble is  $1/5$
- (B) Probability of getting a green marble is  $3/10$
- (C) Probability of getting either a yellow or a green marble is  $7/10$
- (D) Probability of getting either a red or a yellow marble is  $3/10$

Choose the correct answer from the options given below:

- A) (A) and (D) only
- B) (B) and (C) only
- C) (A) and (C) only
- D) (B) and (D) only

9. QUESTION

Match List-I with List-II

List-I	List-II
(A) Duplicate of ratio 2: 7	25:30
(B) Compound ratio of 2: 7, 5:3 and 4:7	4:49

(C) Ratio of 2: 7 is same as	40: 147
(D) List-II Ratio of 5: 6 is same as	4: 14

Choose the correct answer from the options given below:

- A) (A) - (III), (B) - (I), (C) - (IV), (D) - (II)  
 B) (A) - (II), (B) - (III), (C) - (IV), (D) - (I)  
 C) (A) - (IV), (B) - (I), (C) - (II), (D) - (III)  
 D) (A) - (I), (B) - (III), (C) - (IV), (D) - (II)

#### 10. QUESTION

A train travelling at 48 km/h completely crosses another train having half the length of first train and travelling in opposite direction at 42 km/h in 12 seconds. The train having speed 48 km/h also passes a railway platform in 45 seconds. What is the length of the platform?

- A) 600M  
 B) 200M  
 C) 400M  
 D) 200M

#### 11. QUESTION

A dishonest dealer sells his goods at 10% loss on cost price and uses 30% less weight. What is his profit or loss percentage?

- A) 28  $\frac{4}{7}$  % loss  
 B) 28  $\frac{3}{7}$  % profit  
 C) 28  $\frac{3}{7}$  % loss  
 D) 28  $\frac{4}{7}$  % profit

#### 12. QUESTION

Match List-I with List-II

List-I	List-II
$1 - \sqrt{(0 * 81 * 0 * 484) / (0 * 64 * 6 * 25)}$	(I) - 0.024
$2 - \sqrt{(0.204 * 42) / (0 * 7 * 3 * 4)}$	(II) - 0.99

$3 - \sqrt{(0 * 81 * 0 * 324 * 4 * 624) / (1 * 5625 * 0 * 289 * 72 * 9 * 64)}$	(III) - 50
$4 - \sqrt{(9 * 5 * 0 * 85) / (0 * 17 * 0 * 19)}$	(IV) - 6

Choose the correct answer from the options given below:

- A) (A) (I), (B) - (IV), (C) - (III), (D) - (II)  
 B) (A) (I), (B) - (III), (C) - (IV), (D) - (II)  
 C) (A) (II), (B) - (IV), (C) - (I), (D) - (III)  
 D) (A) (II), (B) (I), (C) - (IV), (D) - (III)

#### 13. QUESTION

Find the number of permutations that can be made from the letters of the word OMEGA, if the vowels occupy odd places.

- A) 12 WAYS  
 B) 6 WAYS  
 C) 13 WAYS  
 D) 17 WAYS

#### 14. QUESTION

If  $abc > 0$ , such that a, b, c are integers then which of the following must be true?

- A)  $a/b < 0$   
 B)  $(ab)/c > 0$   
 C)  $bc < 0$   
 D)  $a > bc$

#### 15. QUESTION

A cylindrical vessel of radius 4 cm contains water. A solid sphere of 3 cm radius is lowered into the water until it is completely immersed. The water level in the vessel will rise by:

- A)  $\frac{2}{9}$  \* cm  
 B)  $\frac{4}{9}$  \* cm

- C)  $9/4 \times \text{cm}$   
D)  $9/2 \times \text{cm}$

16. QUESTION

A certain amount of money at compound interest grows to 66,550 in 3 years and 73,205 in 4 years. The rate percent per annum is:

- A) 10%  
B) 9%  
C) 5%  
D) 11%

17. QUESTION

Ramesh invests 1,200 at 5% simple interest. How much additional money must he invest at 8% simple interest so that his total annual income will be equal to 6% of his total investment during this year?

- A) 500  
B) 600  
C) 1,200  
D) 1,500

18. QUESTION

Given below are two statements:

Statement 1:

Ram and Shyam can finish a task by working together in 6 days. If Shyam can finish the task by working alone in 8 days, then Ram alone will take 24 days to finish it.

Statement II:

If 6 persons working 8 hours a day earn 8,400 per week, then 9 person working 6 hours a day will earn 9,450 per week.

In the light of the above statements, choose the correct answer from the options given below:

- A) Both Statement i and Statement II are true  
B) Both Statement I and Statement II are false  
C) Statement I is true but Statement II is false  
D) Statement I is false but Statement II is true

19. QUESTION

Arrange the following in increasing order:

- (A)  $16 \frac{2}{3}\%$   
(B)  $2/15$   
(C) 0.17  
(D) 0.25% of 64

Choose the correct answer from the options given below:

- A)  $B < D < A < C$   
B)  $A < D < B < C$   
C)  $C < D < B < A$   
D)  $A < C < D < B$

20. QUESTION

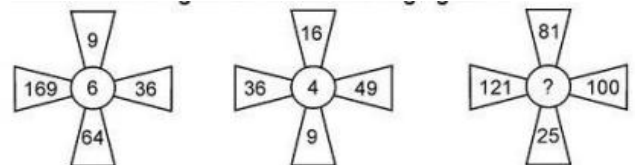
If the roots of the equation  $p \cdot x^2 + x + r = 0$  are reciprocal to each other, then which one of the following is correct?

- A)  $p = 2r$   
B)  $p = r$   
C)  $2p = r$   
D)  $p = 4r$

## Logical Reasoning

21. QUESTION

Find the missing term in the following figure ?



- A) 5  
B) 6  
C) 11  
D) 7

22. QUESTION

Bald is related to Blond in the same way as Barren is related to ?

- A) Vegetation
- B) Farm
- C) Fertile
- D) Inhabited

23. QUESTION

Choose the correct word from the given alternatives which bears the same relationship to the third word as the first two.  
Vigilant: Alert:: Viable: ?

- A) Active
- B) Hopeless
- C) Feasible
- D) Useful

24. QUESTION

Consider the statement given below and the following assumptions and decide which of the assumptions is/are implicit in the statement.  
Statement:

You know that your shirt is excellent when people ask about your tailor who tailored the shirt.

Assumptions:

- I. People do not ask about your tailor if your shirt is not good.
- II. People want to know the criteria of an excellent shirt.

- A) Only Assumption I is implicit
- B) Only Assumption II is implicit
- C) Neither Assumption I nor II is implicit
- D) Both Assumptions I and II are implicit

25. QUESTION

Mr. X starts walking from his house towards west. After walking a distance of 30 metres, he turned towards right and walked 20 metres. He then turned left and moving a distance of 10 metres, turned to his left again and walked 40 metres. He now turns to the left and walks 5 metres. Finally

he turns to his left. In which direction is he walking now ?

- A) North
- B) South
- C) South-East
- D) East]

26. QUESTION

The following question consists of a statement and arguments I and II. Choose the best option:

Statement:

Should there be a compulsory medical examination of both the man and the woman before they marry each other?

Argument I:

No, this is an intrusion to the privacy of an individual and hence cannot be tolerated.

Argument II:

Yes, this will substantially reduce the risk of giving birth to children with serious ailments.

- A) Only Argument i is strong
- B) Only Argument II is strong
- C) Neither Argument I nor Argument II is strong
- D) Both Argument I and Argument II are strong

27. QUESTION

Find the odd one out among the following:

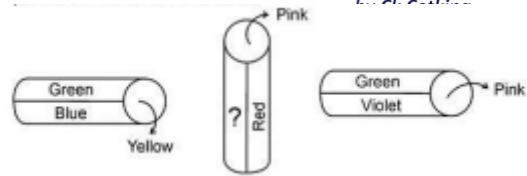
- A) Bajra
- B) Barley
- C) Mustard
- D) Rice

28. QUESTION

Miss Lilly' started her journey from her house and goes 2 km straight. Then, she turns towards her right and goes 1 km. She again turns towards her right and goes 1 km again. If finally she is in the north-west direction from her house, then in which direction did she go in the beginning ?



- A) North
- B) South
- C) East
- D) West



What is the colour in the empty space?

- A) Blue
- B) Green
- C) Violet
- D) Yellow

### 29. QUESTION

If 'blue means green', 'green means white', 'white means yellow', 'yellow means black', 'black means red' and 'red means brown', then what is the colour of milk?

- A) Black
- B) Brown
- C) Yellow
- D) Green

### 30. QUESTION

Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A):

A person with blood group O is supposed to be an universal donor.

Reason (R):

Group O does not contain any antigens.

In the light of the above statements, choose the correct answer from the options given below:

- A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
- B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A)
- C) Assertion (A) is true, but Reason (R) is false.
- D) Assertion (A) is false, but Reason (R) is true

### 31. QUESTION

A cylinder is painted in 6 colours - Green, Blue, Yellow, Violet, Red and Pink. Three positions are shown below

### 32. QUESTION

Arrange the following words in a meaningful sequence and choose the most appropriate sequence from the given alternatives.

- (A) Rain
- (B) Monsoon
- (C) Rescue
- (D) Flood
- (E) Shelter
- (F) Relief

- A) (A), (B), (C), (D), (E), (F)
- B) (A), (B), (D), (E), (C), (F)
- C) (B), (A), (D), (C), (E), (F)
- D) (D), (A), (B), (C), (F), (E)

### 33. QUESTION

In a certain code language, if HAND is written as SZMW, then what will be the code of MILK?

- A) ORNP
- B) PNRO
- C) NROP
- D) RNOP

### 34. QUESTION

Consider the statement given below followed by two conclusions. Decide which of the conclusions follows from the information given in the statement. Statement:

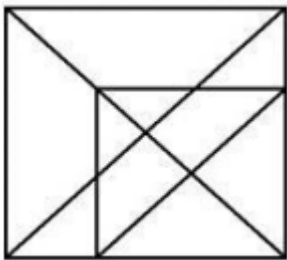
Domestic demand has been increasing faster than production of indigenous crude oil. Conclusions:

- I. Crude oil must be imported.  
II. Domestic demand should be reduced.

- A) Only Conclusion I follows  
B) Only Conclusion II follows  
C) Either Conclusion I or II follow  
D) Neither Conclusion I nor II follow

35. QUESTION

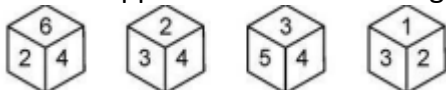
Find the number of triangles in the following figure:



- A)16  
B)17  
C)19  
D)21

36. QUESTION

A dice is thrown four times and its four different positions are shown below. Find the number on the face opposite the face showing 2



- A)3  
B)4  
C)5  
D)6

37. QUESTION

A monkey climbs 20 feet at the beginning of each hour and rests for a while when he slips back 5 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent

at 8:00 AM, at what time will he first touch a flag at 110 feet from the ground?

- A) 2:00 PM  
B) 3:00 PM  
C) 4:00 PM  
D) 2:30 PM

38. QUESTION

A watch which gains uniformly is 2 minutes slow at 10:00 AM on Monday and is

$$2\frac{1}{2}$$

minutes fast at 1:00 PM the following day.

When did it show the correct time ? 2

- A) 10:30 PM Tuesday  
B) 10:30 PM Monday  
C) 10:45 PM Monday  
D) 10:00 PM Monday

39. QUESTION

Take the given statements to be true even if they seem to be at variance from commonly known facts. Which conclusion would follow on the basis of given statements. Statement:

'Some bags are purses', 'All purses are containers' and 'All containers are suitcases'.

Conclusions:

- (A) Some suitcases are bags  
(B) All purses are bags  
(C) All purses are suitcases  
(D) Some containers are purses

Choose the correct answer from the options given below:

- A) (A), (B) and (C) only  
B) (B) and (D) only  
C) (A) and (C) only  
D) (A), (C) and (D) only

40. QUESTION



In a row of boys facing the north, A is 16" from the left and C is 16" from the right end. B who is 4th to the right of A, is 5th to the left of C in the row. How many boys are there in the row?

- A)41
- B)40
- C)43
- D)42

: Language Comprehension

41. QUESTION

Pick the odd one out from the following options:

- A) hold back
- B) hold high
- C) hold on
- D) hold up

42. QUESTION

"Speech without any preparation" is known as\_\_\_\_\_.

- A) Ready-made
- B) Natural
- C) Present minded
- D) Extempore

43. QUESTION

Identify the usages of the word "PRINCIPAL" in the following sentence. "In the meeting the principal stated the principal reasons for the suggested changes in the statute.

- A) As a noun and as an adverb
- B) As a noun and as a verb
- C) As a noun and as an adjective
- D) As a noun and as a noun

44. QUESTION

Pick the word opposite in meaning to the word "OBLIGATORY"

- A) Compulsory
- B) Exclusionary
- C) Voluntary
- D) Exemplary

45. QUESTION

Pick the correct option to complete the following sentence:

"He often \_\_\_\_\_ cold in winter."

- A) catch
- B) is catching
- C) catches
- D) have caught

46. QUESTION

Pick the correct answer from the options given below to replace the underlined words/phrase in the following sentence to make it grammatically correct:

"He keeps getting for me and I really don't know what wrong have I done."

- A) gets at me
- B) get off at me
- C) getting at me
- D) getting by me

47. QUESTION

Pick the correct passive form of the following sentence:

"One sees this sort of advertisement everywhere."

- A) This sort of advertisement is seen everywhere
- B) This sort of advertisement sees everywhere.
- C) The advertisement are seen everywhere by one.
- D) This sort of advertisement is shown everywhere.

48. QUESTION

Comprehension

Read the following passage and answer the next three questions:

To what extent reasoning can \_\_\_\_ (I) \_\_\_\_ a reliable basis for a theory of justice is, of course, itself an issue that has been subject to controversy. \_\_\_\_ (II) \_\_\_\_, first chapter of this book is (III). with the role and reach of reasoning. I argue against the plausibility of seeing emotions or psychology or instincts as independent sources of valuation, without reasoned appraisal. Impulses and mental attitudes remain important, however, since we have good reasons to take note of them in our assessment of justice and injustice in the world. There is no irreducible conflict here, I argue, between reason and emotion, and there are very good reasons for making room for the relevance of emotions. In the above passage there are blanks, each of which has been numbered. Find out the appropriate option in each case to replace the given numbers.

Pick the appropriate replacement for (I):

- A) provide
- B) provides
- C) provided
- D) be provided

49. QUESTION

Read the following passage and answer the next three questions:

To what extent reasoning can \_\_\_\_ (I) \_\_\_\_ a reliable basis for a theory of justice is, of course, itself an issue that has been subject to controversy. \_\_\_\_ (II) \_\_\_\_, first chapter of this book is (III). with the role and reach of reasoning. I argue against the plausibility of seeing emotions or psychology or instincts as independent sources of valuation, without reasoned appraisal. Impulses and mental attitudes remain important, however, since we have good reasons to take note of them in our assessment of justice and injustice in the world. There is no irreducible

conflict here, I argue, between reason and emotion, and there are very good reasons for making room for the relevance of emotions. In the above passage there are blanks, each of which has been numbered. Find out the appropriate option in each case to replace the given numbers.

Pick the appropriate replacement for (II):

- A) a
- B) an
- C) the
- D) None of the above

50. QUESTION

Read the following passage and answer the next three questions:

To what extent reasoning can \_\_\_\_ (I) \_\_\_\_ a reliable basis for a theory of justice is, of course, itself an issue that has been subject to controversy. \_\_\_\_ (II) \_\_\_\_, first chapter of this book is (III). with the role and reach of reasoning. I argue against the plausibility of seeing emotions or psychology or instincts as independent sources of valuation, without reasoned appraisal. Impulses and mental attitudes remain important, however, since we have good reasons to take note of them in our assessment of justice and injustice in the world. There is no irreducible conflict here, I argue, between reason and emotion, and there are very good reasons for making room for the relevance of emotions. In the above passage there are blanks, each of which has been numbered. Find out the appropriate option in each case to replace the given numbers.

Pick the appropriate replacement for (III):

- A) concern
- B) concerns
- C) concerned
- D) concerning

51. QUESTION

Given below are two statements:

Statement 1:

"DARE" usually forms negatives and questions like an ordinary verb and is followed by an infinitive with to.

Statement II

It can also be used like a modal verb especially in present tense negative forms and is followed by an infinitive without to.

In the light of the above statements, choose the correct answer from the options given below:

- A) Both Statement I and Statement II are true
- B) Both Statement I and Statement II are false
- C) Statement I is true but Statement II is false
- D) Statement I is false but Statement II is true

52. QUESTION

Rearrange the following sentences to get a meaningful paragraph:

- (A) All Indian water bodies within and near population centres are now grossly polluted with organic and hazardous pollutants.
- (B) India is facing a water situation that is significantly worse than any that previous generations had faced.
- (C) That's why interstate disputes over river waters are becoming intense and widespread.
- (D) Not a single Indian city can provide clean water that can be consumed from a tap on a 24 x 7 basis.

Choose the correct answer from the options given below:

- A) (C), (A), (D), (B)
- B) (C), (B), (A), (D)
- C) (C), (D), (A), (B)
- D) (B), (A), (D), (C)

53. QUESTION

Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R).

"The details of the incident was not known."

Assertion (A):

The above sentence does not adhere to the requirement of subject-verb agreement and hence it is a grammatically incorrect sentence.

Reason (R):

In "Noun+ Preposition + Noun" constructions, the verb agrees with the number and person of the noun preceding the preposition.

In the light of the above statements, choose the correct answer from the options given below:

- A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- B) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).
- C) (A) is true but (R) is false
- D) (A) is false but (R) is true.

54. QUESTION

Given below are two statements:

Statement:

Modal verbs have only one form. They have no -ing or -ed forms and do not add -s to the 3 person singular form.

Statement II:

Modal verbs are followed by past participle form of the other verbs.

In the light of the above statements, choose the correct answer from the options given below:

- A) Both Statement I and Statement II are true
- B) Both Statement I and Statement II are false
- C) Statement I is true but Statement II is false
- D) Statement I is false but Statement II is true

55. QUESTION

Rearrange the following components to get a meaningful sentence.

- (A) balanced economic growth

(B) had to plan for  
(C) the Indian Government  
(D) and development of a huge country  
Choose the correct answer from the options given below:

- A) (A), (B), (C), (D)  
B) (A), (D), (B), (C)  
C) (C), (A), (B), (D)  
D) (C), (B), (A), (D)

56. QUESTION

Match List-I with List-II

List-I	List-II
(A) Win hands down	I- To run away
(B) Learn the hard way	II- Conquer easily
(C) To feel blue	III- Learn from bad experiences
(D) Take to one's heel	IV- Miserable

Choose the correct answer from the options given below:

- A) (A)- (I), (B) - (II), (C) - (III), (D) - (IV)  
B) (A) - (II), (B) - (I), (C) - (III), (D) - (IV)  
C) (A) - (II), (B) - (III), (C) - (IV), (D) - (1)  
D) (A) - (IV), (B) - (III), (C) - (II), (D) - (1)

57. QUESTION

Match List-I with List-II

List-I	List-II
(A) Alibi	I- This for that
(B) Ex parte	II- Other
(C) Lex loci	III- The law of the place
(D) Quid pro quo	IV- From one side only

Choose the correct answer from the options given below:

- A) (A) - (I), (B) - (III), (C) - (II), (D) - (IV)  
B) (A) - (1), (B) - (II), (C) - (III), (D) - (IV)

- C) (A) - (II), (B) - (IV), (C) - (III), (D) - (1)  
D) (A) - (IV), (B) - (III), (C) (II), (D) - (1)

58. QUESTION

Which of the following are synonyms of the word "CAJOLE"?

- (A) Coax  
(B) Entice  
(C) Bully  
(D) Disenchant

Choose the correct answer from the options given below:

- A) (A) and (B) only  
B) (A) and (C) only  
C) (B) and (C) only  
D) (C) and (D) only

59. QUESTION

Comprehension

Read the following passage and answer the next two questions. Education, taken in its most extensive sense, is properly that which makes the man. One method of education, therefore, would only produce one kind of man; but the greater excellence of human nature consists in the variety of which it is capable. Instead then, of endeavouring, by uniform and fixed systems of education, to keep mankind always the same, let us give free scope to everything which may bid fair for introducing more variety among us. The varied character of the Athenians was certainly preferable to the uniform character of the Spartans, or to any uniform national character whatever. Uniformity is the characteristic of the brute creation. Among them every species of bird builds its nest with the same materials and in same form; the genius and disposition of one individual is that of all and it is only the education which men give them that raises any of them much above others. But it is the glory of human nature that the operations of reason, through variable and by no means infallible, are capable of infinite improvement. We come into the world worse provided than any of the brutes; but when their faculties are at a full stand and their

enjoyments incapable of variety or increase, our intellectual powers are growing apace; we are perpetually deriving happiness from new sources, and even before we leave this world, are capable of tasting the felicity of angels.

Which of the following is true about the given passage?

- A) It describes the state of education in our society.
- B) It narrates the story of educational development in our society.
- C) It reflects on the role and impact of education in life.
- D) All of the above

#### 60. QUESTION

Read the following passage and answer the next two questions. Education, taken in its most extensive sense, is properly that which makes the man. One method of education, therefore, would only produce one kind of man; but the greater excellence of human nature consists in the variety of which it is capable. Instead then, of endeavouring, by uniform and fixed systems of education, to keep mankind always the same, let us give free scope to everything which may bid fair for introducing more variety among us. The varied character of the Athenians was certainly preferable to the uniform character of the Spartans, or to any uniform national character whatever. Uniformity is the characteristic of the brute creation. Among them every species of bird builds its nest with the same materials and in same form; the genius and disposition of one individual is that of all and it is only the education which men give them that raises any of them much above others. But it is the glory of human nature that the operations of reason, through variable and by no means infallible, are capable of infinite improvement. We come into the world worse provided than any of the brutes; but when their faculties are at a full stand and their enjoyments incapable of variety or increase, our intellectual powers are growing apace; we are perpetually deriving happiness from new sources,

and even before we leave this world, are capable of tasting the felicity of angels.

Which of the following statements are true about the given passage?

- (A) The author creates a binary between uniformity and diversity in matters of education.
- (B) It upholds a uniform and stable system of education.
- (C) It holds uniformity rather brutish, but necessary for the society.
- (D) It holds diversity in education a key to human excellence and progress.

Choose the correct answer from the options given below:

- A) (A) and (B) only
- B) (A) and (C) only
- C) (A) and (D) only
- D) (B) and (D) only

### General Awareness

#### 61. QUESTION

Given below are two statements:

Statement: Anthology is the branch of Science that deals with the study of flowers.

Statement II: Pedology is the branch of Science that deals with the study of fruits. In the light of the above statements,

choose the correct answer from the options given below:

- A) Both Statement I and Statement II are true
- B) Both Statement I and Statement II are false
- C) Statement I is true but Statement II is false
- D) Statement I is false but Statement II is true

#### 62. QUESTION

Which of the following statements are correct?

- (A) Indus Valley Civilization is one of the oldest civilizations of the world.

- (B) People of this civilization were familiar with Wheat, Rice and Barley.  
(C) They were the first people to produce cotton.  
(D) They were living in villages with homes made with mud and soil.  
(E) They were not familiar with metals like copper.

Choose the correct answer from the options given below:

- A) (A), (B) and (C) only  
B) (B), (C) and (D) only  
C) (C), (D) and (E) only  
D) (A), (D) and (E) only

63. QUESTION

The world record of the First Space Tourist is of:

- A) Anousheh Ansari  
B) Adolf Von  
C) Dennis Tito  
D) Robert Edwin

64. QUESTION

We celebrate National Constitution Day on:

- A) 26th December  
B) 9th December  
C) 15th August  
D) 26th November

65. QUESTION

Given below are two statements:

Statement I: The founder of Buddhism, Gautam Buddha was born in 540 BC at Lumbini.

Statement II: Buddhism followed the middle path for attainment of salvation and believed in the concept of non-violence.

In the light of the above statements, choose the correct answer from the options given below:

- A) Both Statement I and Statement II are true  
B) Both Statement I and Statement II are false  
C) Statement I is true but Statement II is false  
D) Statement I is false but Statement II is true

66. QUESTION

The Panchayat system first started in India from:

- A) West Bengal  
B) Tamil Nadu  
C) Rajasthan  
D) Bihar

67. QUESTION

The 20th Asian Games - 2026 is scheduled to be held in which country?

- A) China  
B) Japan  
C) India  
D) Thailand

68. QUESTION

The Author of the famous Book "My Life" is:

- A) Barack Obama  
B) Benazir Bhutto  
C) Pervez Musharraf  
D) Bill Clinton

69. QUESTION

Match List-I with List-II

List-I (Activities)	List-II (Year)
(A) Partition of Bengal	I-1906
(B) Muslim League	II-1916
(C) Home Rule Movement	III-1922
(D) Chauri Chaura	IV-1905

Choose the correct answer from the options given below:

- A) (A) - (1), (B) - (IV), (C) - (III), (D) - (II)



- B) (A) - (IV), (B) - (I), (C) - (II), (D) - (III)  
C) (A) - (IV), (B) - (II), (C) - (III), (D) - (1)  
D) (A) - (IV), (B) - (I), (C) - (III), (D) - (II)

70. QUESTION

The first foreigner honoured with the Bharat Ratna Award was:

- A) Muhammad Ali Jinnah  
B) Benazir Bhutto  
C) Sirimavo Bandarnaike  
D) Khan Abdul Ghaffar Khan

71. QUESTION

Match List-I with List-II

List-I	List-II
(A) Biggest planet	1-Earth
(B) Blue planet	2-Neptune
(C) Coldest planet	3-Jupiter
(D) Hottest planet	4-Venus

Choose the correct answer from the options given below:

- A) (A) - (I), (B) - (III), (C) - (IV), (D) - (II)  
B) (A) - (III), (B) - (I), (C) - (II), (D) - (IV)  
C) (A) - (II), (B) - (I), (C) - (III), (D) - (IV)  
D) (A) - (IV), (B) - (III), (C) - (II), (D) - (1)

72. QUESTION

Arrange the following important National Days of India in chronological sequence.

- (A) National Science Day  
(B) National Teacher's Day  
(C) National Youth Day  
(D) National Hindi Day  
(E) National Children's Day

Choose the correct answer from the options given below:

- A) (A), (C), (B), (E), (D)  
B) (B), (A), (D), (C), (E)  
C) (C), (A), (B), (D), (E)  
D) (C), (B), (A), (E), (D)

73. QUESTION

Kathakali is the famous dance of which state?

- A) Tamil Nadu  
B) Kerala  
C) Andhra Pradesh  
D) Odisha

74. QUESTION

Which of the following statements are correct?

- (A) Men in Paleolithic age, survived on hunting animals and birds, fishing, fruits and nuts.  
(B) Men in Mesolithic age, domesticated some animals and started to stay in one place.  
(C) Men in Mesolithic age invented the wheel for transportation.  
(D) Men in Chalcolithic age started the practice of agriculture.

Choose the correct answer from the options given below:

- A) (A), (B) and (C) only  
B) (B) and (C) only  
C) (A), (B) and (D) only  
D) (B), (C) and (D) only

75. QUESTION

Given below are two statements:

Statement I: Ajatashatru was the founder of Haryanka Dynasty.

Statement II: The earliest capital of Magadha was Rajgir.

In the light of the above statements, choose the correct answer from the options given below

- A) Both Statement I and Statement II are true  
B) Both Statement I and Statement II are false  
C) Statement I is true but Statement II is false  
D) Statement I is false but Statement II is true

76. QUESTION

The famous football player Lionel Messi belongs to which country?

- A) Jamaica
- B) Portugal
- C) Argentina
- D) Spain

77. QUESTION

Who is known as "The Father of Green Revolution in the world" ?

- A) M.S. Swaminathan
- B) Dr. Verghese Kurien
- C) Norman E. Borlaug
- D) P.C. Mahalanobis

78. QUESTION

Which Article of the Indian Constitution is related to free and compulsory education for children of age 6 years to 14 years?

- A) Article-17
- B) Article-21A
- C) Article-46
- D) Article – 356

79. QUESTION

Given below are two statements:

Statement I: Graphite is a good conductor of electricity.

Statement II: Diamond is highly transparent and the hardest known material.

In the light of the above statements, choose the correct answer from the options given below:

- A) Both Statement I and Statement II are true
- B) Both Statement I and Statement II are false
- C) Statement I is true but Statement II is false
- D) Statement I is false but Statement II is true

80. QUESTION

Which of the following statement is NOT correct?

- A) Chitranjan Das was not member of Swaraj Party
- B) N. C. Kelkar was among the founding members of Swaraj Party.
- C) The foundation of Swaraj Party was laid on January 1, 1923
- D) In the election held in 1923, the Swaraj Party captured 45 out of 145 seats

## Innovation & Entrepreneurship

81. QUESTION

The primary function of a new age entrepreneur is innovation. This statement was/is proposed and propagated by:

- A) Henri Fayol
- B) Steve Jobs
- C) Schumpeter
- D) Elon Musk

82. QUESTION

The entrepreneur:

- A) is an aggressive catalyst for change in world of business.
- B) is an independent thinker who dares to be different amid a background of common events.
- C) is a mere creator of business
- D) Both (1) and (2)

83. QUESTION

Which of the following is an example of speculative business risk?

- A) A customer is injured while using the product and sues the company
- B) A supplier's shipment is lost in transit
- C) A special promotion fails to increase the sales
- D) A cashier gives unauthorized discounts to friends

84. QUESTION

Which of the following statements are correct?

- (A) MUDRA loans under PMMY include Shishu Category
- (B) MUDRA loans under PMMY include Kishore Category
- (C) MUDRA loans under PMMY include Shaishav Category
- (D) MUDRA loans under PMMY include Tarun Category
- (E) MUDRA loans under PMMY include Vyask Category

Choose the correct answer from the options given below:

- A) (C), (B) and (E) only
- B) (C), (B) and (D) only
- C) (A), (B) and (E) only
- D) (A), (B) and (D) only

85. QUESTION

A corporate manager who starts a new initiative for their company/organisation which entails setting up a new distinct business unit can be regarded as:

- A) Ecopreneur
- B) Technopreneur
- C) Intrapreneur
- D) Businessman/Businesswoman

86. QUESTION

Given below are two statements:  
Statement:

An entrepreneur can get a lot of quality information about competitors from company reports and its website.

Statement II:

First step to avail finance for a new project is Promoter's Biodata.

In the light of the above statement, choose the correct answer from the options given below:

- A) Both Statement I and Statement II are true
- B) Both Statement I and Statement II are false
- C) Statement I is true but Statement II is false
- D) Statement I is false but Statement II is true

87. QUESTION

Design thinking involves which of the following stages?

- (A) Prototyping
- (B) Define
- (C) Empathise
- (D) Modelling
- (E) Test

Choose the correct answer from the options given below:

- A) (A), (B), (C), (D) and (E)
- B) (A), (B), (C) and (E) only
- C) (A), (D) and (E) only
- D) (B), (C) and (D) only

88. QUESTION

Which of the following is NOT a form of organisation to initiate a business/enterprise?

- A) Partner Organisation
- B) Sole Proprietorship
- C) Private Limited Company
- D) Live and License

89. QUESTION

Given below are two statements:  
Statement I:

People's attitudes have changed over the years leading to involvement of State (Government) in businesses globally.

Statement II:

Increasing technicality is leading to State (Government) to make interventions in businesses globally.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A) Both Statement I and Statement II are correct
- B) Both Statement I and Statement II are incorrect
- C) Statement I is correct but Statement II is incorrect
- D) Statement I is incorrect but Statement II is correct

90. QUESTION

Which of the following can give an enterprise dealing in instant coffee a competitive edge ?

- A) Quality, taste and location
- B) Population increase in the city
- C) Ambience and customer relationship
- D) (1) and (3) only

91. QUESTION

Which of the following factors must you judge to estimate the market potential?

- (A) Present Market Demand
- (B) Export Market Demand
- (C) Future Market Demand
- (D) Labour Demand
- (E) Retailer's Consumption Preferences

Choose the correct answer from the options given below:

- A) (B), (C) and (D) only
- B) (A), (B) and (D) only
- C) (A), (B) and (C) only
- D) (B), (D) and (E) only

92. QUESTION

Social Enterprise Obligation includes:

- (A) Environment
- (B) Fair Business Practices
- (C) Community Involvement
- (D) Energy
- (E) Shareholder's Profit

Choose the correct answer from the options given below:

- A) (A), (B), (C) and (E) only
- B) (A), (B), (C) and (D) only
- C) (B), (C), (D) and (E) only
- D) (A), (C), (D) and (E) only

93. QUESTION

Match List-I with List-II

List-I	List-II
(A) Intrapreneur	1- Value Addition
(B) Entrepreneur	2- Risk-taking in an organisational role
(C) Distributor	3- Calculated Risk-taking
(D) Customer	4- Utility Maximisation

Choose the correct answer from the options given below:

- A) (A) (1), (B) - (II), (C) - (III), (D) - (IV)
- B) (A) (III), (B) - (II), (C) - (I), (D) - (IV)
- C) (A) (II), (B) - (III), (C) - (I), (D) - (IV)
- D) (A) - (II), (B) - (III), (C) - (IV), (D) - (I)

94. QUESTION

Arrange the following stages of Entrepreneurship Creativity in sequence.

- (A) Knowledge accumulation
- (B) Incubation
- (C) Implementation
- (D) Idea experience
- (E) Evaluation

Choose the correct answer from the options given below:

- A) (A), (B), (C), (D), (E)
- B) (A), (D), (B), (E), (C)
- C) (A), (B), (D), (E), (C)
- D) (E), (A), (B), (C), (D)

95. QUESTION

Scaling up of a business requires a firm to take care of following things:

- (A) Hiring, retaining and motivating qualified employees
- (B) Finding investors who share same goals
- (C) Time management and work assignment ability
- (D) Adequate market potential and opportune time
- (E) Business idea experiencing

Choose the correct answer from the options given below:

- A) (A), (B), (D) and (E)
- B) (B), (C) and (D) only
- C) (A), (B), (C) and (D) only
- D) (C), (D) and (E) only

96. QUESTION

The Government of India has launched the following initiative a few years ago to drive the new age ideas and enterprises:

- A) Production Linked Incentive (PLI)
- B) Special Economic Zone (SEZ)
- C) Technology Development Board
- D) Start-Up India

97. QUESTION

Given below are two statements:

Statement I:

Yoga and focus on hobbies are good ways to deal with stress for an entrepreneur.

Statement II:

Having stress for an entrepreneur is welcoming as it helps in better performance and helps him/her lead a balanced life.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A) Both Statement I and Statement II are correct
- B) Both Statement I and Statement II are incorrect
- C) Statement I is correct but Statement II is incorrect
- D) Statement I is incorrect but Statement II is correct

98. QUESTION

Match List I with List II

List I	List II
(A) Availability of Raw Material, Plant, Machinery, etc.	I- Business Plan
(B) Demand Preferences and Customer	II- Financial Feasibility
(C) Profit Projections	III- Technical Feasibility
(D) Market, Technical, Financial	IV- Market Feasibility

Choose the correct answer from the options given below:

- A) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- B) (A)-(1), (B)-(II), (C)-(III), (D)-(IV)
- C) (A)-(II), (B)-(1), (C)-(IV), (D)-(III)
- D) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

99. QUESTION

Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A):

Small businesses are considered important to economic development.

Reason (R):

Small businesses can be innovators of new products and provide specialist support to larger companies.

In the light of the above statements, choose the most appropriate answer from the options given below:

A) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A).

B) Both Assertion (A) and Reason (R) are correct and Reason (R) is not the correct explanation of Assertion (A).

C) (A) is correct but (R) is not correct.

D) (A) is not correct but (R) is correct.

100. QUESTION

Which of the following is NOT part of Entrepreneurship Development Programme ?

- A) Identification of entrepreneurs for training
- B) Selection of entrepreneurs for training
- C) Developing entrepreneurial capabilities
- D) Arranging infrastructural capabilities

Number of boys who opted for Mechanical: 120  
(total) 51 (girls)=69

Number of students who opted for Electronics:  
240-69 (Mechanical) - 79/2 (Computer Science) =  
161/2

Percent increase of boys in Mechanical compared to Electronics:

$$\begin{aligned} & (69 - 161/2)/(161/2) * 100 \% \\ & = (69 * 2 - 161)/161 * 100 \% \\ & = (138 - 161)/161 * 100 \% \\ & = - 23/(161) * 100 \% \\ & \text{approx } (- 14.29)\% \end{aligned}$$

2(C)

We already found:

- Number of boys opting for Mechanical ( $x$ ) is approximately 69.23.

- Number of girls opting for Mechanical ( $z$ ) is approximately 29.45.

- Number of boys opting for Electronics ( $y$ ) is approximately 23.08.

- Total number of students opting for Electronics is  $(y + 28)$ , which is approximately  $(23.08 + 28 = 51.08)$ .

Now, to reach approximately 85% for the percentage of girls opting for Mechanical out of the total number of students opting for Electronics, we need to adjust the number of girls opting for Mechanical.

$$[\text{Desired}], z = \frac{85}{100} \times 51.08$$

$$[\text{Desired}], z = 0.85 \times 51.08$$

$$[\text{Desired}], z \approx 43.42$$

So, we need to adjust the number of girls opting for Mechanical ( $z$ ) to approximately 43.42.

Let's recalculate the percentage using this adjusted value:

$$[\text{Percentage}] = \frac{[\text{Adjusted}], z}{\text{Total EC students}} \times 100$$

$$[\text{Percentage}] = \frac{43.42}{51.08} \times 100$$

$$[\text{Percentage}] \approx 85\%$$

3(A)

= The correct option is C 15%

Number of students in the college = 7200

Number of boys =  $5/12 \times 7200 = 4200$

CMAT 2024 SLOT 1 SOLUTIONS

1(A)

=15%



Number of girls =  $5/12 \times 7200 = 3000$   
 Number of student in B.Tech (nano technology)  
 = 22% of 7200 = 1584  
 Number of girls in B.Tech (computer science)  
 = 16% of 3000 = 480  
 Number of boys in B.Tech.(mechanical) = 18% of  
 4200 = 756  
 Number of girls in B.Tech (civil) = 30% of 480 = 144  
 Number of boys in B.Tech.(electronics) = 15% of  
 4200 = 630  
 Number of boys in B.Tech.(computer  
 science) = 50% of 480 = 240  
 Number of girls in B.Tech.(aerospace) = 15% of  
 3000 = 4500  
 Number of boys in B.Tech.(civil) =  $x \times 144 = 432$   
 Number of students in B.Tech (electronics) = 24%  
 of 7200 = 1728  
 Number of girls in B.Tech (electronics) = 1728 -  
 630 = 1098 Number of boys in B.Tech.(aerospace) =  
 $12/5 \times 450 = 1080$   
 Number of boys in B.Tech.(nano technology)  
 = Remaining  
 Number of boys =  $4200 - (756 + 630 + 240 + 432 + 1080)$   
 =  $4200 - 3138 = 1062$   
 Number of girls in B.Tech (nano technology)  
 =  $1584 - 1062 = 522$   
 Number of girls in B.Tech.(Mechanical) = Remaining  
 Number of girls =  $3000 -$   
 $(480 + 144 + 450 + 1098 + 522) = 3000 - 2694 = 306$   
 Tabular form of above information is shown  
 below

Subjects	Number of boys	Number of girls
B. Tech. (computer science)	240	480
B. Tech. (mechanical)	756	306
B. Tech. (civil)	432	144
B. Tech. (electronics)	630	1098
B. Tech. (aerospace)	1080	450
B. Tech. (naon technology)	1062	522
Total	4200	3000

Number of girls enrolled in B.Tech  
 (electronics) = 1098

. Required percentage =  $1098/7200 \times 100\%$   
 = 15.25% 15%

4(B)

=  $B < C < A < D$

1.  $4\sqrt{3} = 4.24$

2  $3\sqrt{2} = 6.93$

3  $6\sqrt{5} = 13.42$

4  $6\sqrt{7} = 16.76$

5(D)

= The correct option is D Digit in the unit's place is twice the digit in the tens place.

Suppose the two digit number is  $10x + y$  Then,  
 $10y + x = 20x + y/2$  Or  $20y + 2x = 40x + y$  or,  $y = 2x$   
 So, we see that digit at units place is twice the digit at tens place.

6(A)

= Let's evaluate each statement:

Statement I:

The grocer needs to mix two varieties of pulses costing 15 and 20 per kg respectively in the ratio 7:3 to get a mixture worth 16.5/kg.

Let's denote the quantities of the two varieties as  $7x$  and  $3x$ , where  $x$  is a common multiplier.

According to the given conditions:

Total cost of the mixture = (Cost of 1st variety \* Quantity of 1st variety) + (Cost of 2nd variety \* Quantity of 2nd variety)

$16.5 = (15 * 7x) + (20 * 3x)$

$16.5 = (105x + 60x)$

$16.5 = 165x$

$x = 1/10$

So, the quantities of the two varieties are 7/10 kg and 3/10 kg respectively.

Statement I is true.

Statement II:

A merchant has 1000 kg rice, part of which he sells at 8% profit and the rest at 16% profit. He gains 14% on the whole. The quantity of rice sold at 16% profit is 750 kg.

Let's denote the quantity of rice sold at 8% profit as  $x$  kg. Then, the quantity sold at 16% profit would be  $(1000 - x)$  kg.

According to the given conditions:

Total profit = (Profit on 8% portion) + (Profit on 16% portion)

$$14\% \text{ of } 1000 = (8\% \text{ of } x) + (16\% \text{ of } (1000 - x))$$

$$140 = (0.08x) + (0.16(1000 - x))$$

$$140 = 0.08x + 160 - 0.16x$$

$$140 = 160 - 0.08x$$

$$-20 = -0.08x$$

$$x = 250$$

So, the quantity of rice sold at 8% profit is 250 kg and at 16% profit is  $(1000 - 250) = 750$  kg.

Statement II is true.

Therefore, the correct answer is (1) Both

Statement I and Statement II are true.

7(C)

= (A) and (B) only

8(B)

= Let's calculate the probabilities:

Total number of marbles = 1 (red) + 3 (green) + 2 (blue) + 4 (yellow) = 10.

(A) Probability of getting a yellow marble = Number of yellow marbles / Total number of marbles =  $4/10 = 2/5$ . So, option (A) is incorrect.

(B) Probability of getting a green marble = Number of green marbles / Total number of marbles =  $3/10$ . So, option (B) is correct.

(C) Probability of getting either a yellow or a green marble = Probability of yellow marble + Probability of green marble =  $(4/10) + (3/10) = 7/10$ . So, option (C) is correct.

(D) Probability of getting either a red or a yellow marble = Probability of red marble + Probability of yellow marble =  $(1/10) + (4/10) = 1/2$ . So, option (D) is incorrect.

Therefore, the correct answer is (B) and (C) only.

9(B)

= (A) - (II), (B) - (III), (C) - (IV), (D) - (1)

10(C)

$$= 400 \text{ m}$$

The correct option is B 400 m

Let the length of first train be  $x$  metres.

Then, the length of second train is  $(x/2)$  metres.

Relative speed =  $(48+42)$  kmph

$$= (90 * 5/18) * \text{m/sec} = 25 \text{ m/sec.}$$

$$/(x + x/2)/25 = 12 \text{ OR } (3x)/2 = 300$$

$$\text{or } x = 200$$

.. Length of first train = 200m Let the length of platform be  $y$  metres.

Speed of the first train

$$= (48 * 5/18) \text{ m/sec} = 40/3 \text{ M/SEC}$$

$$(200 + y) * 3/40 = 45$$

$$600 + 3y = 1800$$

$$y = 400 \text{ m}$$

11(D)

$$= 28 \frac{4}{7} \% \text{ profit}$$

12(C)

= (A) (II), (B) - (IV), (C) - (I), (D) - (III)

13(A)

= 12 WAYS

OMEGA

Here, no. Of vowels = 3 (o, e, a)

No. Of consonants = 2 (m, g)

Now vowels are to occupy odd places

There are 3 odd places of in which the 3 vowels can be arranged in  $3!$  ways =  $3 \times 2 \times 1 = 6$

In the remaining 2 even places 2 consonants can be arranged in  $2!$  ways =  $2 \times 1 = 2$  ways.

Thus required no. of words formed

$$= 6 \times 2$$

$$= 12$$

14(B)

$$= A) a/b < 0$$

If  $abc > 0$ , then either all three numbers are positive or one of them is negative while the other two are positive.

If  $a$  and  $b$  are both positive,  $c$  is also positive. So, statement A is not necessarily true

$$B) (ab)/c > 0$$

Given  $abc > 0$ , this means  $a$ ,  $b$ , and  $c$  are all either positive or negative. In either case,  $ab$  will be positive, as the product of two positive or two negative numbers divided by a positive number is positive. So, statement B is true.

$$C) bc < 0$$

Since  $abc > 0$ , this implies that  $a$ ,  $b$ , and  $c$  must have the same sign, either all positive or all negative. In either case,  $b$  will not be negative. So, statement C is not necessarily true.

D)  $a > bc$

If  $abc > 0$ , then  $a$ ,  $b$ , and  $c$  must have the same sign. If they are all positive, then  $a > bc$  is possible. However, if they are all negative, then  $a$  could be smaller than  $bc$ . So, statement D is not necessarily true.

Therefore, the only statement that must be true is  $(ab)/c > 0$

15(C)

$\frac{9}{4} \text{ cm}$

= Increase in volume of cylinder = volume of sphere

Let increase in volume of cylinder be  $= \pi r^2 h$  where  $r$  is its radius and  $h$  is its height.

So,  $\pi r^2 h = \frac{4}{3} \pi r^3$

$16, \pi h = \frac{4}{3} \pi, \pi \cdot 3^3$

where radius of the cylinder = 4cm and radius of the sphere

= 3cm

$h = \frac{4}{3} \cdot \frac{27}{16} = \frac{36}{16} = \frac{9}{4} = 2.25 \text{ cm}$

: water rises by 2.25cm in the vessel.

16(A)

= Amount will become in 4 years = 73205

Amount will become in 3 years = 66550

Interest = 73205 - 66550 = 6655

. Rate of interest =  $\frac{6655}{66550} \times 100 = 10\%$

17(B)

= Let's break down the problem:

1. Ramesh invests \$1200 at 5% simple interest.

2. He wants his total annual income to be equal to 6% of his total investment.

Let's denote the additional amount he needs to invest at 8% as  $(x)$ .

So, for the \$1200 invested at 5%, his income would be  $(1200 \times 0.05 = \$60)$ .

For the additional amount invested at 8%, his income would be  $(x \times 0.08)$ .

To meet his target of 6% annual income, the total income should be 6% of the total investment, which is  $(0.06 \times (1200 + x))$ .

Therefore, we can set up the equation:

$[60 + 0.08x = 0.06 \times (1200 + x)]$

Now, solve for  $(x)$ :

$[60 + 0.08x = 72 + 0.06x]$

$[0.08x - 0.06x = 72 - 60]$

$[0.02x = 12]$

$[x = \frac{12}{0.02}]$

$[x = 600]$

So, Ramesh must invest an additional \$600 at 8% simple interest.

18(A)

= Statement I:

Given that Ram and Shyam can finish a task by working together in 6 days, and Shyam can finish the task alone in 8 days. From this, we can calculate their individual rates of work. Let's denote the rate of work of Ram as  $R$  (in tasks per day) and the rate of work of Shyam as  $S$  (in tasks per day). Then

$\frac{1}{R + S} = 6$  Ram and Shyam together

$\frac{1}{S} = 8$  (Shyam alone)

From the first equation, we can find  $R + S = \frac{1}{6}$

and from the second equation,  $S = \frac{1}{8}$

Substituting the value of  $S$  in the first equation:

$R + \frac{1}{8} = \frac{1}{6}$

$R = \frac{1}{6} - \frac{1}{8} = \frac{4}{24} - \frac{3}{24} = \frac{1}{24}$

So, Ram alone will take 24 days to finish the task.

Statement I is true.

Statement II:

Given that 6 persons working 8 hours a day earn \$8,400 per week, and we need to find out the earnings of 9 persons working 6 hours a day per week. This is a straightforward application of the principle of proportionality. The total amount earned is directly proportional to the number of persons and the number of hours worked per day. Let's denote the earnings of 9 persons working 6 hours a day per week as  $E$ .

Then,

$6 \text{ persons} \times 8 \text{ hours/day} \times 8400 = 9 \text{ persons} \times 6 \text{ hours/day} \times E$

After canceling out common terms, we find that  $E = 9450$

So, Statement II is true.

Therefore, the correct answer is A) Both Statement I and Statement II are true.

19(A)

$$= B < D < A < C$$

(A)  $162/3\%$  is approximately 16.67%.

(B)  $2/15$  is a fraction

(C) 0.17 is a decimal

(D) 0.25% of 64 is 0.16

20(A)

= Products of the roots of quadratic equation =  $c/a$

In this case, product = 1 [ Roots are reciprocal of each other]

$$1 = r / p$$

$$p=r$$

21(D)

$$=7$$

22(C)

=Bald is related to Bland in the same way as Barren is related to Fertile.

Introduction:

To understand the relationship between the words "bald" and "bland," we need to analyze the meaning of these words and find a similar relationship between "barren" and another word.

Explanation:

1. Meaning of "bald" and "bland":

Bald: It refers to the absence or lack of hair on the head or body.

- Bland: It means lacking strong or interesting characteristics, often used to describe food that is lacking flavor.

2. Relationship between "bald" and "bland":

Both words describe a state of lacking or absence.

"Bald" describes the lack of hair, while "bland" describes the lack of flavor or interesting features.

3. Word association between "barren" and "fertile":

Barren: It means unable to produce vegetation or crops, usually due to a lack of fertility.

Fertile: It refers to the ability to produce vegetation or crops, indicating a rich and productive environment.

4. Similarity between the relationships:

- In both cases, we have a pair of words where the first word describes a state of lacking or absence, and the second word describes the opposite or contrasting state.

- "Bald" and "bland" both describe a lack of something (hair or flavor), while "barren" and "fertile" represent opposite states in terms of land productivity.

Conclusion:

Based on the analysis, we can conclude that "bald" is related to "bland" in the same way as "barren" is related to "fertile." Both pairs of words share a relationship where the first word describes a state of lacking or absence, while the second word represents the opposite or contrasting state.

23(C)

= 'Alert' is the synonym of 'Vigilant'.

Similarly, the synonym of 'Viable' is 'Feasible'. So, the answer is (C) Feasible.

24(A)

=Only Assumption I is implicit

25(A)

1. He starts by walking west.

2. After 30 meters, he turns right, which means he is now facing north.

3. He walks 20 meters north.

4. Then, he turns left, which means he is now facing west.

5. He walks 10 meters west.

6. Next, he turns left again, which means he is now facing south.

7. He walks 40 meters south.

8. Now, he turns left once more, which means he is now facing east.

9. He walks 5 meters east.

he is indeed walking towards the \*\*north\*\* direction.

26(B)

=Only Argument II is strong

27(C)

=Mustard

The logic followed here is:-

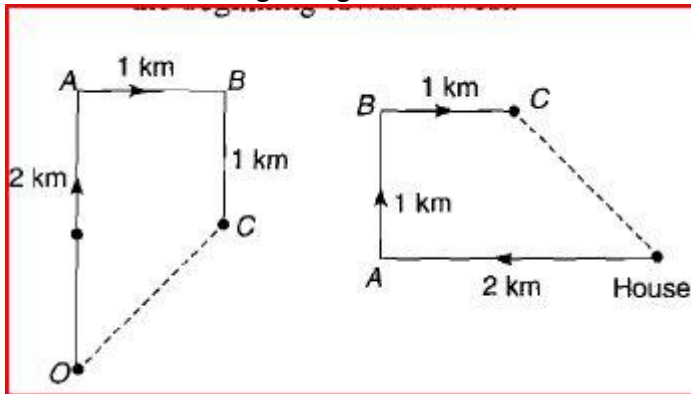
Rice, Bajra, and Maize all belong to Kharif Crops,  
Whereas,  
Mustard belongs to Rabi Crop.

28(D)

=The correct option is D West

Suppose the direction of walking in the beginning is North, the route is shown in the diagram.

Clearly I am at C finally which is North-East of my house. But actually I am North-West. So I must have walk in the beginning towards West.



29(D)

=GREEN

1. Blue means green.
2. Green means white.
3. White means yellow.
4. Yellow means black.
5. Black means red.
6. Red means brown.

So, if we start with blue (which means green), and continue the chain of transformations, the final color is indeed **green**. Therefore, according to the given transformations, the color of milk is **green**.

30(A)

= Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)

31(C)

= Violet

32(C)

= The words given are associated with rainfall.

They must be arranged in the order in which they happen.

So First there will be Monsoon season.

Then there will be Rainfall.

Then over rains may lead to Flood.

Then people will have to be Rescued.

The flood affected people will be given Shelters.

And finally there would be a conclusion of Relief operation.

33(C)

= Given, HAND is written as SZMW . Here, the code is n<sup>th</sup> letter from the beginning of the English alphabet is replaced by n<sup>th</sup> letter from the end of the English alphabet. Similarly, MILK is coded as NROP. Hence, **option (C)** is the correct answer.

34(C)

= Either Conclusion I or II follow

35(D)

=21

36(C)

=5

37(B)

=3:00 PM

38(D)

= 10:00 PM Monday

39(D)

1. **\*\*Some bags are purses\*\***: This statement indicates that there is at least one bag that is also a purse.

2. **\*\*All purses are containers\*\***: This statement implies that every purse is a container.

3. **\*\*All containers are suitcases\*\***: This statement suggests that every container is a suitcase.

Now,:

(A) Some suitcases are bags:

- This conclusion can be inferred from the given statements. If all containers are suitcases and some bags are containers, then there must be some bags that are also suitcases. So, conclusion (A) is correct.

(B) All purses are bags:

- This conclusion cannot be inferred from the given statements. While it is true that some bags are purses, it does not necessarily mean that all purses are bags. Hence, conclusion (B) is incorrect.

(C) All purses are suitcases:

- This conclusion cannot be inferred from the given statements. Although all containers are suitcases and all purses are containers, it doesn't imply that all



purses are suitcases. Hence, conclusion (C) is incorrect.

(D) Some containers are purses:

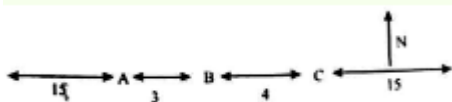
- This conclusion can be inferred from the given statements. Since all purses are containers, and some bags are purses, it follows that some containers are purses. So, conclusion (D) is correct.

Therefore, the correct answer is option:

D) (A), (C), and (D) only

40(B)

= The correct option is B 40



Clearly, according to the given conditions, there are 15 boys to the left of A, as to the right of C.

Also, B lies between A and C such that there are 3 boys between A and B and 4 boys between B and C.

So, number of boys in the row

$= (15 + 13 + 1 + 4 + 1 + 15) = 40$

41(B)

=hold high

The odd one out is "(2) hold high." The other options ("hold back," "hold on," and "hold up") are all commonly used idiomatic expressions, while "hold high" is not typically used in the same sense.

42(D)

=Extempore

43(C)

=The word "principal" is used in two different senses in the sentence:

1. **\*\*As a noun\*\***: Referring to the head or chief authority, typically in a school context. "The principal stated..."

2. **\*\*As an adjective\*\***: Meaning primary or most important. "The principal reasons..."

So, the correct answer is:

(C) As a noun and as an adjective

44(C)

=Voluntary

45(C)

=catches

46(C)

=getting at me

47(A)

=This sort of advertisement is seen everywhere.

48(A)

=provide

49(C)

= the

50(C)

= concerned

51(A)

= Both Statement I and Statement II are true

Statement I states that "DARE" typically behaves like an ordinary verb, forming negatives and questions with the addition of "do" as an auxiliary verb and followed by an infinitive with "to." This is generally true. For example:

- Negative: He doesn't dare to speak.

- Question: Do you dare to jump?

Statement II states that "DARE" can also function similarly to a modal verb, especially in present tense negative forms, where it doesn't require the auxiliary "do" and is followed by an infinitive without "to." This is also true, though it's less common and tends to be more informal. For example:

- Negative: He dare not speak. (Without "do" and "to" after "dare.")

- Question (rare, but possible): Dare he speak?

So, both statements accurately describe different ways "DARE" can be used in English.

52(D)

= (B), (A), (D), (C)

53(A)

= Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

54(C)

= Statement I is true but Statement II is false

Explanation:



Statement I correctly describes modal verbs. Modal verbs indeed have only one form, they do not change according to tense or person, and they do not add "-ing" or "-ed" forms. However, Statement II is false because modal verbs are not followed by the past participle form of other verbs; instead, they are followed by the base form (infinitive) of the main verb.

55(D)

= (C), (B), (A), (D)

56(C)

= (A) - (II), (B) - (III), (C) - (IV), (D) - (1)

57(C)

= (A) - (II), (B) - (IV), (C) - (III), (D) - (1)

58(A)

= (A) and (B) only

Explanation:

- "Coax" and "entice" are both synonyms of "cajole" as they all mean to persuade someone to do something by using flattery, gentle pressure, or promises.

- "Bully" and "disenchant" are not synonyms of "cajole." "Bully" means to intimidate or coerce someone, while "disenchant" means to disillusion or disappoint.

59(C)

= The correct option is:

C) It reflects on the role and impact of education in life.

Explanation:

The passage reflects on the role and impact of education in life, discussing the idea of education in broad terms, its effects on human nature, and the importance of variety in education. While it doesn't explicitly narrate the story of educational development or describe the state of education in society, it does delve into the philosophy of education and its implications for human nature. Therefore, option C is the most appropriate.

60(C)

= The correct option is:

C) (A) and (D) only

Explanation:

(A) The passage indeed creates a binary between uniformity and diversity in matters of education. It discusses the drawbacks of uniform and fixed systems of education and advocates for introducing more variety.

(D) The passage upholds diversity in education as a key to human excellence and progress. It argues that the greater excellence of human nature consists in the variety of which it is capable and suggests giving free scope to everything that introduces more variety among us.

61(C)

= Statement I is indeed false because "anthology" typically refers to a collection of literary works, not the study of flowers. The correct term for the study of flowers is "anthology" or "floriculture." Statement II is false because "pedology" is actually the study of soil, not fruits. The correct term for the study of fruits is "pomology."

So, indeed, the correct answer is:

C) Statement I is true but Statement II is false

62(A)

= (A), (B) and (C) only

The correct answer is:

A) (A), (B) and (C) only

Explanation:

- Statement (A) is correct. The Indus Valley Civilization is indeed one of the oldest civilizations in the world, dating back to around 2500 BCE.

- Statement (B) is correct. Archaeological evidence suggests that the people of the Indus Valley Civilization were familiar with crops like wheat, rice, and barley.

- Statement (C) is correct. The Indus Valley Civilization was one of the earliest civilizations to produce cotton, with evidence of cotton cultivation and textile production dating back to around 2500 BCE.

Statements (D) and (E) are incorrect:

- Statement (D) is incorrect. The people of the Indus Valley Civilization did live in villages with homes made of mud bricks, but the construction material also included materials like baked brick and stone.

- Statement (E) is incorrect. The people of the Indus Valley Civilization were indeed familiar with metals like copper, as evidenced by the discovery of copper artifacts at various archaeological sites associated with the civilization.

63(C)

= The world record of the first space tourist is held by Dennis Tito.

So, the correct option is:

(3) Dennis Tito

64(D)

= Constitution Day also known as 'Samvidhan Divas', is celebrated in our country on **26th November** every year to commemorate the adoption of the Constitution of India. On 26th November 1949, the Constituent Assembly of India adopted the Constitution of India, which came into effect from 26th January 1950.

65(A)

The correct answer is:

A) Both Statement I and Statement II are true

Explanation:

- Statement I: Gautam Buddha, the founder of Buddhism, was indeed born in 563 BC at Lumbini, which is now in modern-day Nepal.

- Statement II: Buddhism does follow the middle path for the attainment of salvation and believes in the concept of non-violence (Ahimsa). This is a central tenet of Buddhist philosophy.

66(C)

= Rajasthan was the first state to implement Panchayati Raj in India on **2nd of Oct 1959** in the Nagaur district. Rajasthan was followed by Andhra Pradesh which also implemented in the year 1959. Thereafter most of the states adopted the system

67(B)

= The 2026 Asian Games will be co-hosted by the Aichi Prefecture and the city of Nagoya in **Japan**. It will mark the third time the Asian Games has been held in Japan, following Tokyo in 1958 and Hiroshima in 1994.

68(D)

= Bill Clinton

69(B)

= (A) - (IV), (B) - (I), (C) - (II), (D) - (III)

70(D)

= The first foreigner honored with the Bharat Ratna was Khan Abdul Ghaffar Khan.

So, the correct option is:

(D) Khan Abdul Ghaffar Khan

71(B)

= (A) - (III), (B) - (I), (C) - (II), (D) - (IV)

72(D)

= The correct chronological sequence for the listed National Days of India is as follows:

1. (C) National Youth Day (January 12)
2. (A) National Science Day (February 28)
3. (B) National Teacher's Day (September 5)
4. (E) National Children's Day (November 14)
5. (D) National Hindi Day (September 14)

So, the correct answer is:

D) (C), (B), (A), (E), (D)

73(B)

= Kerala

74(C)

= (A), (B) and (D) only

The correct statements are:

(A) Men in Paleolithic age survived on hunting animals and birds, fishing, fruits, and nuts. This is accurate as hunting and gathering were the primary means of subsistence during the Paleolithic period.

(B) Men in Mesolithic age domesticated some animals and started to stay in one place. This is correct as during the Mesolithic period, there was a transition towards more settled lifestyles and the domestication of certain animals.

(D) Men in Chalcolithic age started the practice of agriculture. This statement is also correct. The Chalcolithic age, also known as the Copper Age, marked the beginning of agriculture and metalworking.

75(D)

= Statement I is false but Statement II is true

76(c)

= Argentina

77(C)

= Norman E. Borlaug

**Norman Borlaug** is the father of Green Revolution in the world. He was an American agricultural scientist and humanitarian. He is considered by some to be the "father of modern agriculture". He received the Nobel Peace Prize in 1970

78(B)

= Article-21A

Right to Education The Constitution (Eighty-sixth Amendment) Act, 2002 inserted Article 21-A in the Constitution of India to **provide free and compulsory education of all children in the age group of six to fourteen years** as a Fundamental Right in such a manner as the State may, by law, determine

79(A)

= Both Statement I and Statement II are true

80(A)

= Chitranjan Das was not member of Swaraj Party.

81(C)

= The statement "The primary function of a new age entrepreneur is innovation" aligns closely with the views of Joseph Schumpeter, an Austrian economist. Schumpeter is renowned for his theories on entrepreneurship, particularly his concept of "creative destruction," which emphasizes the role of entrepreneurs in introducing innovation and disrupting existing markets. While figures like Steve Jobs and Elon Musk are notable innovators in their own right, Schumpeter's work laid much of the theoretical groundwork for understanding entrepreneurship and innovation in modern economies.

82(D)

= Both (1) and (2)

83(C)

= A special promotion fails to increase the sales

84(D)

= (A), (B) and (D) only

85(C)

= Intrapreneur

86(C)

= Statment I is true but Statement II is false

87(B)

= (A), (B), (C) and (E) only

88(D)

= Live and License

89(B)

= Both Statement I and Statement II are incorrect

90(D)

= (1) and (3) only

The option that can give an enterprise dealing in instant coffee a competitive edge is:

(D) Quality, taste, and location, along with ambience and customer relationship.

Instant coffee is often associated with convenience and speed, but to stand out in a competitive market, offering high-quality products with great taste in convenient locations can attract customers.

Additionally, providing a pleasant ambience and fostering positive customer relationships can enhance the overall experience, encouraging repeat business and word-of-mouth recommendations.

91(C)

= To estimate market potential, you would typically consider factors such as present market demand, export market demand, and future market demand. Therefore, the correct answer is:

(C) - (A), (B), and (C) only

92(B)

= Social enterprise obligation typically encompasses a commitment to environmental sustainability, fair business practices, community involvement, and sometimes energy efficiency. It's generally not primarily focused on maximizing shareholder profit but rather on achieving broader social or environmental goals. Based on this, the correct answer would be:

(B) (A), (B), (C), and (D) only

93(C)

= (A) (II), (B) - (III), (C) - (I), (D) - (IV)

94(C)

= (A), (B), (D), (E), (C)

95(C)

= (A), (B), (C) and (D) only

96(D)

= The Government of India launched the Start-up India Initiative on 16 January 2016, with the objective of supporting entrepreneurs, building a robust start-up ecosystem, and transforming India into a country of job creators instead of job seekers.

• The Government of India launched the "Start-up India" campaign in New Delhi on 16 January 2016.

97(C)

=

(C) Statement I is correct but Statement II is incorrect.

While the first statement suggests positive coping mechanisms for stress, the second statement's assertion that stress is welcoming for an entrepreneur is not necessarily accurate. While some level of stress can indeed be motivating and lead to better performance, chronic or excessive stress can have detrimental effects on health and well-being, and it's not necessarily conducive to leading a balanced life. So, it's more accurate to say

that managing stress through healthy practices like yoga and hobbies is beneficial for entrepreneurs.

98(A)

= (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

99(A)

= The most appropriate answer would be:

A) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A).

Small businesses indeed play a crucial role in economic development, and the reason provided, that they can innovate new products and provide specialized support to larger companies, helps to

explain why they are considered important contributors to economic growth.

100(D)

=The Entrepreneurship Development Programme typically involves activities related to identifying potential entrepreneurs, selecting candidates for training, and developing their entrepreneurial capabilities. Infrastructural capabilities are not typically considered a direct part of the Entrepreneurship Development Programme.

Therefore, the correct answer is:

(D) Arranging infrastructural capabilities

