



## CMAT 2021 Slot-1

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# Quantitative Techniques and Data Interpretation

## Instructions

For the following questions answer them individually

### Question 1

Two pipes A and B can fill a tank in 5 hours and 20 hours respectively. Both pipes together can fill the same tank in:

- A 4 hours
- B 6 hours
- C 10 hours
- D 2 hours

Answer: A

### Question 2

In June-2020, the ratio of boys to girls in a college was 3 : 2. In September-2020, there were 80 fewer boys and 20 fewer girls in the college and the ratio of boys to girls was 7 : 5. What was the total number of students in the college in June-2020?

- A 1000
- B 1100
- C 1200
- D 1300

Answer: D

### Question 3

M is a 4-digit number. If the left most digit is removed, then the resulting three digit number is  $\frac{1}{9}$  of M. How many such M's are possible?

- A 10
- B 9
- C 8
- D 7

Answer: D

### Question 4

L and M together can complete a piece of work in 72 days, M and N together can complete it in 120 days, and L and N together in 90 days. In what time can L alone complete the work?

- A 150 days
- B 80 days
- C 100 days
- D 120 days

Answer: D

**Question 5**

Given below are two statements

**Statement I :** The set of numbers (5, 6, 7,  $p$ , 6, 7, 8,  $q$ ) has an arithmetic mean of 6 and mode (most frequently occurring number) of 7. Then  $p \times q = 16$ .

**Statement II:** Let  $p$  and  $q$  be two positive integers such that  $p + q + p \times q = 94$ . Then  $p + q = 20$ .

In 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

**Answer: B**

**Question 6**

A milkman adds 10 litres of water to 90 litres of milk. After selling  $\frac{1}{5}$  of the total quantity, he adds water equal to the quantity he sold. The proportion of water to milk he sells now would be:

- A 72 : 28
- B 28 : 72
- C 20 : 80
- D 30 : 70

**Answer: B**

**Question 7**

In a  $\triangle ABC$ ,  $D$ ,  $E$  and  $F$  are the mid-points of the sides  $AB$ ,  $BC$  and  $CA$  respectively. Then the ratio of the area of a  $\triangle DEF$  and the area of a  $\triangle ABC$  is:

- A 1:4
- B 1:2
- C 2:3
- D 4:5

**Answer: A**

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**Question 8**

A 100-meter long train crosses a 200-meter long and 20-meter wide bridge in 20 seconds. What is the speed of the train in Km/hour?

- A 45
- B 36
- C 54

D 57.6

Answer: C

Question 9

Given below are two statements:

Statement I:  $\frac{\sqrt{7}+\sqrt{5}}{\sqrt{7}-\sqrt{5}} + \frac{\sqrt{7}-\sqrt{5}}{\sqrt{7}+\sqrt{5}} = 2$

Statement II: If  $a + b + c = 0$ , then  $(a^3 + b^3 + c^3) \div abc = 3$

In 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

Answer: A

Question 10

Given below are two statements:

Statement I : A coin is tossed three times. The probability of getting exactly two heads is  $\frac{1}{4}$

Statement II: In tossing of 10 coins, the probability of getting exactly 5 heads is  $\frac{1}{256}$

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

Answer: A

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Question 11

If  $x^2 - 3x + 2$  is a factor of  $x^4 - px^2 + q$ , then  $(p,q) =$

- A (5,2)
- B (5,4)
- C (-5,-4)
- D (-5,4)

Answer: B

Question 12

In a 100 meter race, A beats B by 10 meters and B beats C by 5 meters. By how many meters does A beat C?

- A 15.0 meters
- B 15.5 meters

C 10.5 meters

D 14.5 meters

Answer: A

Question 13

Mohan bought a trouser at 10% discount and sold it to Sohan at a loss of 10%. If Sohan paid Rs. 729 for the trouser to Mohan, then what was the undiscounted price of the trouser?

A Rs. 900/-

B Rs. 800/-

C Rs. 1000/-

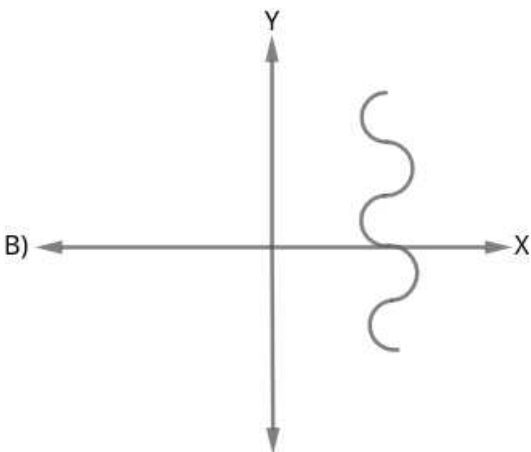
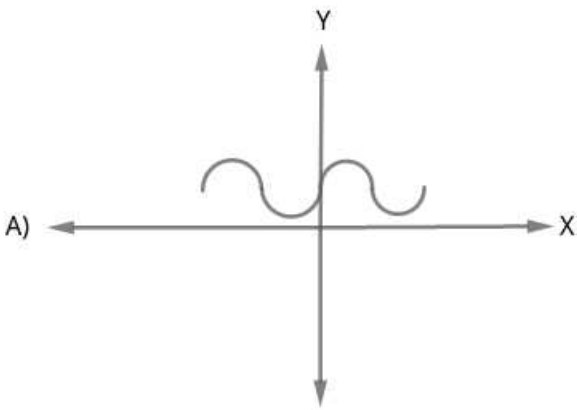
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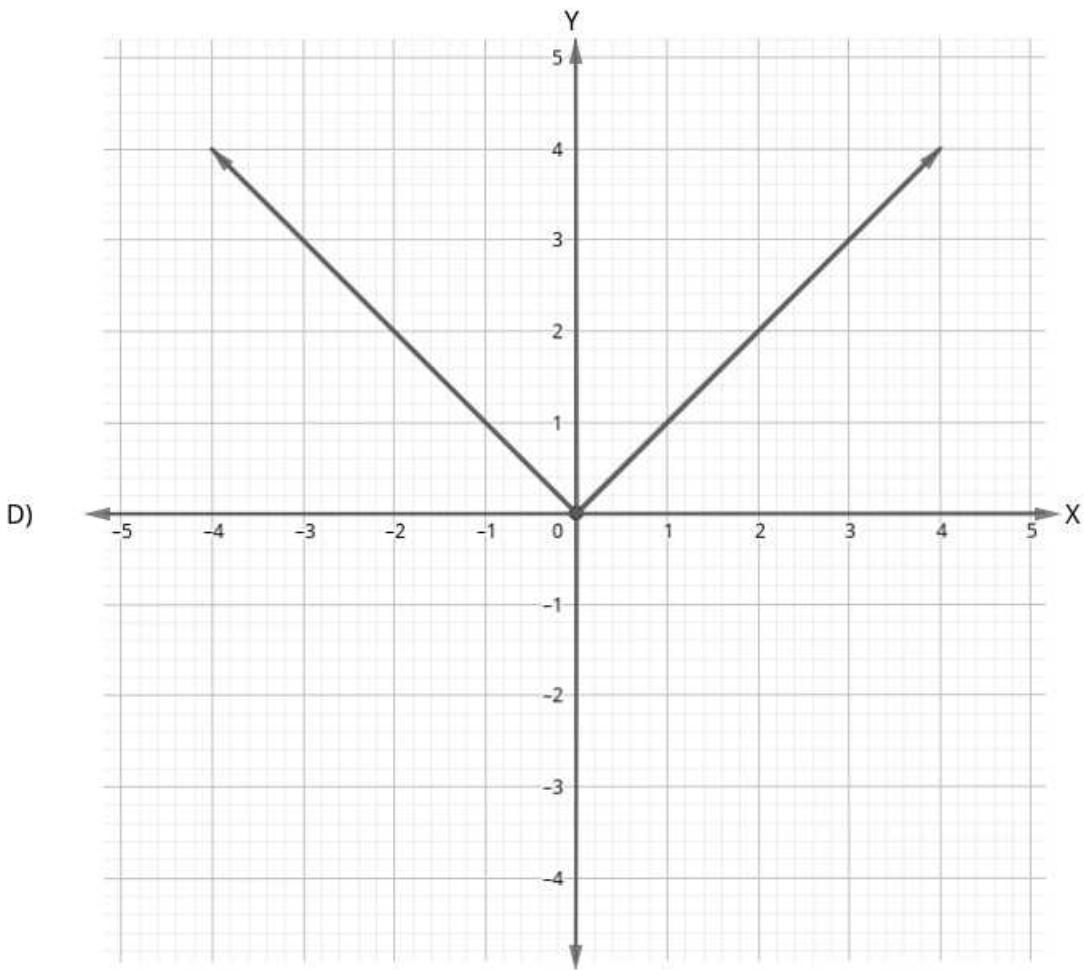
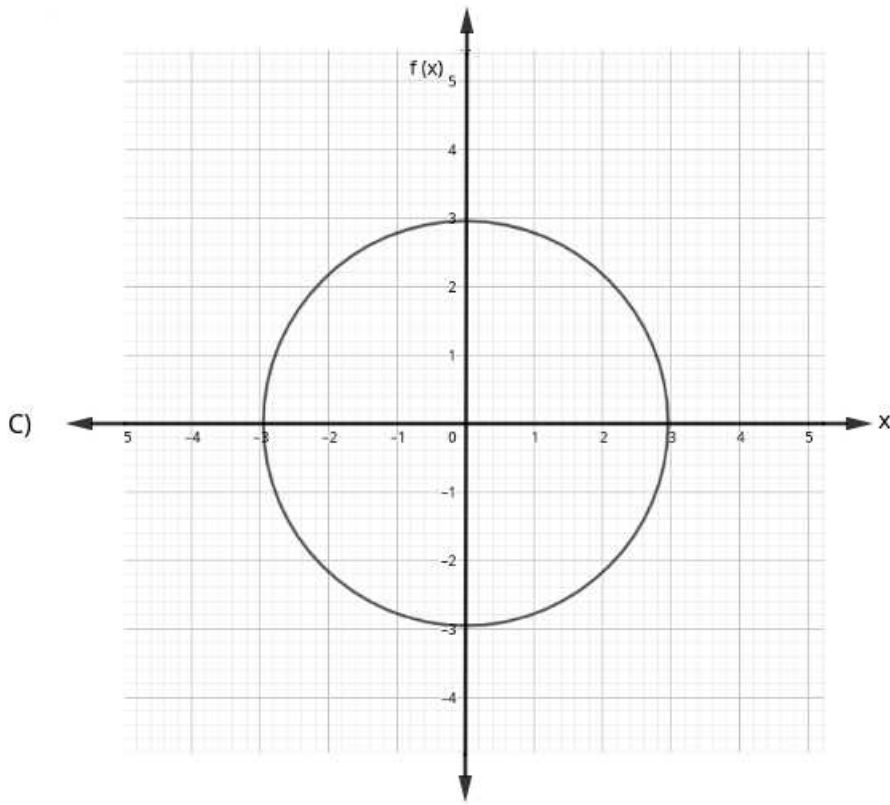
Answer: A

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Question 14

Which of the following graphs represent the function of  $x$ ?





Choose the correct answer from the options given below :

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

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

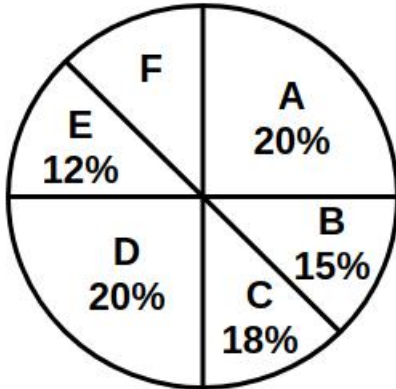
C (A) and (D) only

D (A) and (C) only

Answer: C

Question 15

The following pie-chart indicates the monthly domestic budget of a family:



where A = Food; B = Conveyance; C = Clothing; D = House Rent; E = Miscellaneous Expenses;  
F = Saving.

If the monthly saving of the family is Rs. 4500, then the monthly income of the family is:

A Rs. 45000

B Rs. 30000

C Rs. 25000

D Rs. 20000

Answer: B

Question 16

Two sisters Neha and Monica walk to school from the house. Neha takes 40 minutes while Monica takes 30 minutes. One day Neha started 5 minutes earlier than Monica. In how many minutes would Monica overtake Neha?

A 5

B 15

C 20

D 25

Answer: B

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Question 17

Given below are two statements

Statement I : A committee of 4 can be made out of 5 men and 3 women containing at least one woman in 65 ways.

Statement II : The number of words which can be formed using letters of the word 'ARRANGE' so that vowels always occupy even place is 36.

In 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

Answer: A

Question 18

If  $A : B = C : D$ , then the value of  $\frac{A^2+B^2}{C^2+D^2}$  is

- A  $\frac{1}{2}$
- B  $\frac{A+B}{C+D}$
- C  $\frac{A-B}{C-D}$
- D  $\frac{A \times B}{C \times D}$

Answer: D

Question 19

The dimensions of a floor are  $18 \times 24$ . What is the smallest number of identical square tiles that pave the entire floor without the need to break any tile?

- A 6
- B 24
- C 8
- D 12

Answer: D

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Question 20

Which of the following statements regarding quadratic equations are true?

- (A) Solution set for the equation  $6x^2 - 5x = 4$  is  $\left\{-\frac{1}{2}, \frac{4}{3}\right\}$
- (B) The nature of the roots of the equation  $9x^2 + 6x + 1 = 0$  is equal, real and rational.
- (C) If one root of  $4x^2 - 3x + K = 0$  is 3 times the other, then  $K = \frac{27}{256}$

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



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

Answer: B

**Question 21**

Arrange the following rational numbers in ascending order:

- (A)  $\frac{-4}{5}$
- (B)  $\frac{-5}{12}$
- (C)  $\frac{-7}{18}$
- (D)  $\frac{-2}{3}$

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

Answer: C

**Question 22**

Match List I with List II.

Let A and B be events with  $P(A) = \frac{2}{3}$ ,  $P(B) = \frac{1}{2}$  and  $P(A \cap B) = \frac{1}{3}$

List	List-II
Probability of an event	Value
(A) $P(A \cap B^c)$	(I) $\frac{2}{3}$
(B) $P(A \cup B^c)$	(II) $\frac{1}{3}$
(C) $P(A^c \cap B^c)$	(III) $\frac{5}{6}$
(D) $P(A^c \cup B^c)$	(IV) $\frac{1}{6}$

(Here c stands for complement)

Choose the correct answer from the options given below:

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

Answer: A

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Question 23

In the year 2020, Production of Sugar (in Million Tonnes) by six major production units A-F of India are shown in the table given below:

Month	A	B	C	D	E	F
April	310	180	169	137	140	120
May	318	179	177	162	140	122
June	320	160	188	173	135	130
July	326	167	187	180	146	130
August	327	150	185	178	145	128

What was approximate percentage decrease in sugar production of unit B in June as compared to April?

- A 8%
- B 11%
- C 15%
- D 18%

Answer: B

Question 24

The difference between the compound interest and simple interest for the amount Rs 5000/- in 2 years is Rs. 32. Then the rate of interest per annum is:

- A 5%
- B 8%
- C 10%
- D 12%

Answer: B

Question 25

Given below are two statements

Statement I: In the sequence of numbers 30, 90, 182, 306, 462, P..... the term P is 650.

Statement II : There are 8 digits in  $9^8$  when it is expressed in decimal form.

In 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

Answer: A

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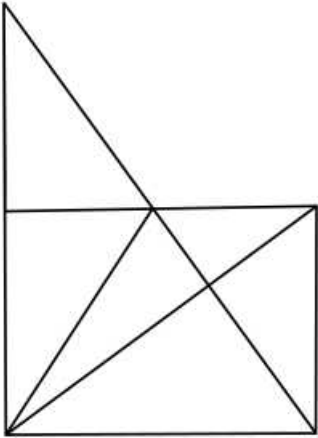
**Logical Reasoning**

**Instructions**

For the following questions answer them individually

Question 26

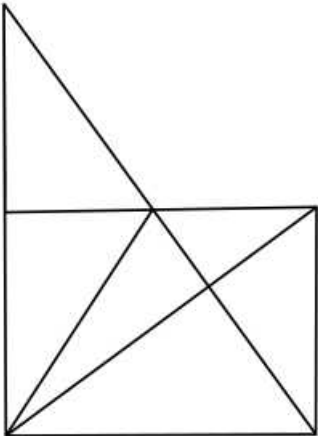
Find the number of triangles in the given figure :



- A 11
- B 13
- C 15
- D 17

Answer: B

Explanation:



On counting the total triangles comes out to be 13

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Question 27

One statement and two conclusions for the statement are given. Read the statement, think logically about the conclusions and mark the correct option which follows the statement.

Statement : Socialization has an outcome.

Conclusion:

- A. The persons being socialized acquire new skills.
- B. Socialization does not lead to change in behaviour.

- A Only conclusion A follows
- B Only conclusion B follows

- C Either A or B follows  
D Neither A nor B follows

**Answer: A**

**Explanation:**

Has an outcome can be related to skills acquired if person is socialized so I follows and  
Has an outcome does not mean change in behaviour so II do not follow

**Question 28**

**Find the missing number in the given series:**

**8, 13, 10, 15, 12, \_\_\_\_**

- A 14  
B 17  
C 18  
D 20

**Answer: B**

**Explanation:**

we have 8, 13, 10, 15, 12

Here the pattern is  $8+5=13$ ,  $13-3=10$ ,  $10+5=15$ ;  $15-3=12$  so next term will be  $12+5=17$

**Question 29**

**Complete the sequence :**

**30, 56, 90, \_\_\_\_\_, 182, 240.**

- A 145  
B 132  
C 110  
D 160

**Answer: B**

**Explanation:**

30, 56, 90, \_\_\_\_\_, 182, 240.

Here the first differences forms an A.P with a common difference of 8

so we get next term as  $90+42=132$ .

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**Question 30**

**Find out which of the given statement(s) is/are sufficient to answer the following question Who scored the highest marks in the class?**

**Statements :**

- (A) Pawan scored 98% marks in the class.  
(B) Swati scored more than 98% marks in the class.  
(C) The marks of all the students were less than that of Swati's marks.

**Choose the correct answer from the options given below:**

- A (A) only

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

Answer: D

**Explanation:**

As per C Swati will be the highest scorer

**Question 31**

The given statement is followed by two arguments-I and II. Decide which argument(s) is/are correct for the statement.

**Statement:** We should plant more trees.

**Argument I.** Trees help in reducing pollution.

**II.** Trees occupy too much of the earth's space.

- A I is true
- B II is true
- C Either I or II
- D Neither I nor II

Answer: A

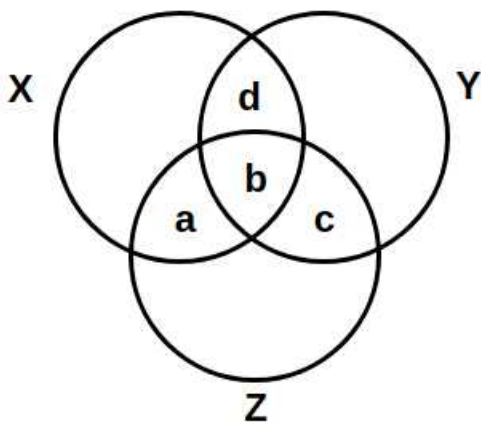
**Explanation:**

Statement We should plant more trees.

Argument should be supportive and as 1st statement says it helps in reducing pollution which is goof 1 is correct 2 highlights a negative and will not be a reason to plant more trees so II is false .

**Question 32**

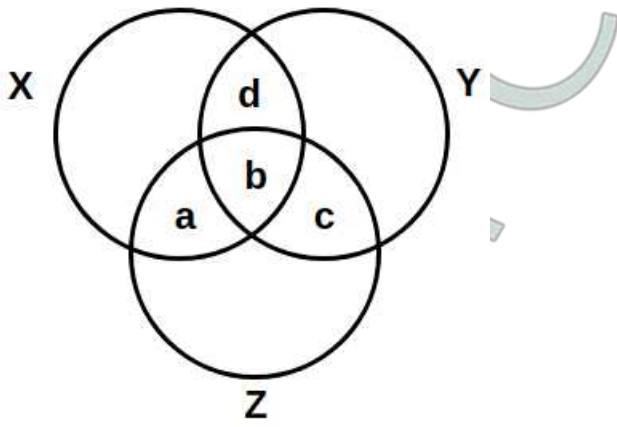
Given below is a diagram of three circles X, Y and Z which represent musicians, singers and dancers, respectively. The circles intersect with each other and form regions- a, b, c and d. Select the region that represents musicians who are singers but not dancers.



- A Only c
- B Only d
- C a and d
- D b and d

Answer: B

**Explanation:**



X - Musicians  
 Y - singers  
 Z - Dancers

so we can say b represents all three and d will represent region of Musicians and Singers but not Dancers

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**Question 33**

Find the odd one out :

- A KMOQ
- B SUWX
- C ACEG
- D IKMO

Answer: B

**Explanation:**

Except SUWX all have a uniform change from one alphabet to other.

**Question 34**

If CLAUSE is coded as ECLSLUA. then the code of UMPIRE will be

- A MRPIUE
- B UEMRIP
- C ERUMIP
- D EURMIP

Answer: D

**Explanation:**

CLAUSE is written as ECLSLUA

Noe let C be 1 L be 2 A be 3 U be 4 S be 5 and E be 6

we get code as 615243

similarly taking UMPIRE as 1,2,3,4,5,6

we will get code as 615243

which will correspond to EURMIP

**Question 35**

Find the wrong number in this sequence :

72, 70, 67, 65, 58, 52, 45

- A 58
- B 65
- C 52
- D 70

**Answer: B**

**Explanation:**

The series should be  $72-2=70$  ;  $70-3=67$  ;  $67-4=63$  ;  $63-5=58$  ;  $58-6=52$  ;  $52-7=45$   
so 65 is the wrong term

**Question 36**

In a certain language 'Roses are red' is coded as 'ko ti na'. "Roses are beautiful' is coded as 'ho ti na'. What is the code for 'red' in that language?

- A ti
- B na
- C ho
- D ko

**Answer: D**

**Explanation:**

Comparing two statements  
we have Roses are as common so we can say ti na will correspond to Roses are in any order  
Therefore red will be ko

**Question 37**

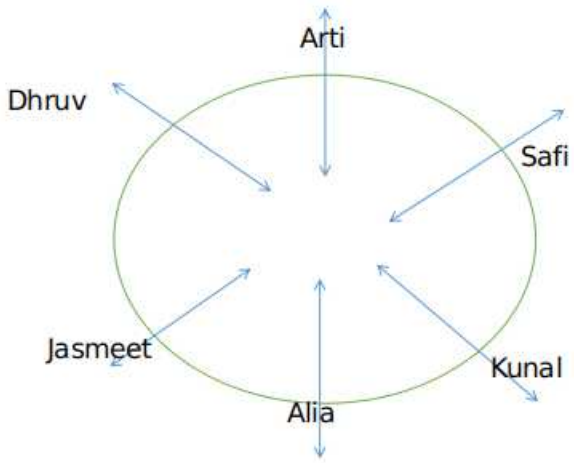
Six friends are sitting around a circular table in such a way that they are equidistant from each other. Kunal is sitting to the right of Alia and Dhruv is sitting between Arti and Jasmeet. Safi is sitting opposite to Jasmeet and to the right of Kunal. Who is sitting between Arti and Kunal?

- A Alia
- B Jasmeet
- C Safi
- D Dhruv

**Answer: C**

**Explanation:**

The arrangement will be :

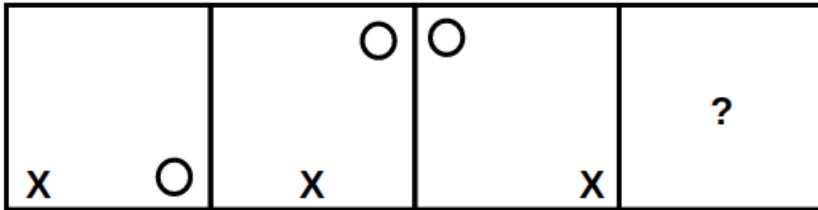


Safi is sitting between Arti and Kunal

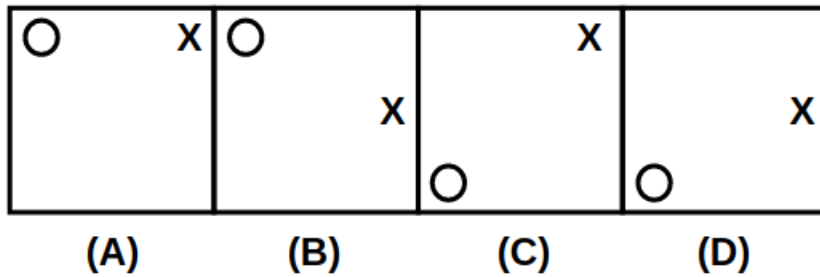
**Question 38**

Select the suitable figure from the answer figure that would replace the question mark (?)

**Problem Figure:**



**Answer Figure:**



A A

B B

C C

D D

Answer: D

**Explanation:**

Following the pattern for both cross and circle we get D as the answer

**Question 39**

In a certain code, LUCKNOW is written as MTDJONX and SURFACE as TTSEBBF. How is HAPPINESS written in that code?

A IZQJMFRT



- B IBQQHOFRR
- C GBQOHODRT
- D GZQQJMDTT

**Answer: A**

**Explanation:**

LUCKNOW is written as MTDJONX  
 $L+1 = M$ ;  $U-1 = T$ ;  $C+1 = D$ ;  $K-1 = J$ ;  $N+1 = O$ ;  $O-1 = N$ ;  $W+1 = X$   
 So following the pattern for HAPPINESS  
 we get code as IZQOJMFRT

**Question 40**

In a certain code FLOWER is written as 325716 and WRITE as 76481. How is LITTER written in that code?

- A 314682
- B 241186
- C 248816
- D 748862

**Answer: C**

**Explanation:**

FLOWER is written as 325716 and WRITE is written as 76481  
 Now L is 2, I is 4, T is 8, E is 1 and R is 6 (Corresponding letter and alphabet)  
 So we get LITTER as : 248816

**Question 41**

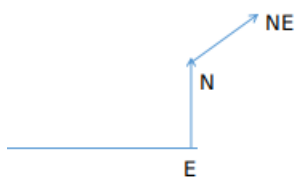
Sophia is walking in the east direction. After walking for some time, she turns left and then again turns  $45^\circ$  right. In which direction is she moving now?

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

**Answer: D**

**Explanation:**

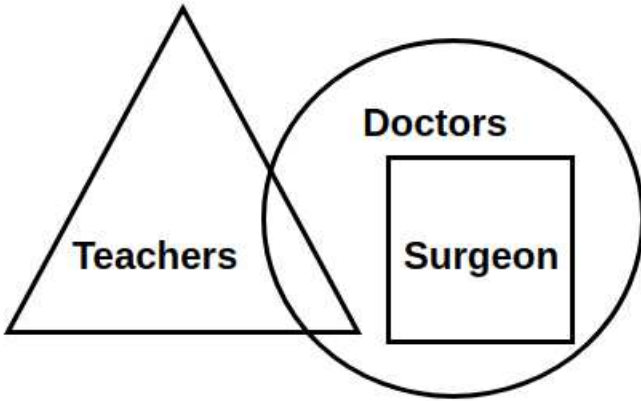
Her Path will be :



We can say she is moving in North East direction

Question 42

Observe the given figure and read the statements (I), (II) and (III).



Statements:

- (I) All teachers are doctors
- (II) Some doctors are teachers
- (III) All surgeons are doctors

Which of the following statement(s) is/are correct :

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

Answer: D

Explanation:

The only conclusions that follows from the given venn are :Some doctors are teachers and All surgeons are doctors  
Hence II and III is the answer.

Question 43

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

Assertion A : Solar energy is in abundance on the planet earth.

Reason R : Solar energy is available only in summer season.

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

- A Both A and R are true and R is the correct explanation of A
- B Both A and R are true but R is not the correct explanation of A
- C A is true but R is false
- D A is false but R is true

Answer: C

Explanation:

Assertion is correct  
Reason is wrong as solar energy is available throughout the year

Question 44

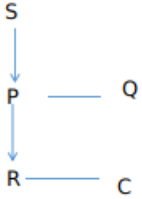
P is the father of R, Q is the sister of P, R is the brother of C and S is the mother of P. How is R related to S?

- A Grandson
- B Granddaughter
- C Mother
- D Father

**Answer: A**

**Explanation:**

We get the tree as :



So R is grandson of S.

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**Question 45**

Ansh is taller than Akshita but shorter than Sharad. Akshita is shorter than Sharad but taller than Sneha. Who is the tallest one?

- A Sharad
- B Akshita
- C Sneha
- D Ansh

**Answer: A**

**Explanation:**

From 1st line we get :  
Sharad > Ansh > Akshita  
From 2nd we get  
Akshita > Sneha  
so we get  
Sharad > Ansh > Akshita > Sneha  
Hence Sharad is the tallest

**Question 46**

Choose the missing item in the series:  
CDFG, IJLM, OPRS,\_\_\_\_, ABDE

- A UWYZ
- B TUVW
- C UVXY
- D STUV

**Answer:** C

**Explanation:**

Considering the first letter of given terms  
it forms pattern

C, I, O, \_, A

I and C have 5 alphabets between them, I and O also have 5 alphabets between them so we get first term as U.

Now considering 2nd letter of given terms:

D, J, P, \_, B

Here again D and J have 5 alphabets between them

J and P have 5 alphabets between them

So next letter will be V

so we get UV

We can conclude the answer will be UVXY

**Question 47**

**In analogy, you are required to guess the relation between the two given words and fill in the blanks after finding the similar relationship by choosing any word from the options given below:**

**BEES : SWARM :: LIONS : \_\_\_\_\_**

**A** SCHOOL

**B** PACK

**C** PRIDE

**D** BAND

**Answer:** C

**Explanation:**

This is a collective noun question  
so we get PRIDE.

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**Question 48**

**A says to B, 'I am the mother of your grandfather's son.' How is A related to B?**

**A** Grandmother

**B** Sister

**C** Daughter

**D** Grandson

**Answer:** A

**Explanation:**

Grandfather's son will be B's father  
And A will be the grandmother of B.

**Question 49**

**Aman is five ranks ahead of Isha in class of 30 students. If Isha's rank is 14<sup>th</sup> from the last, then what is Aman's rank starting from Chetan at the 1<sup>st</sup> position?**

**A** 13<sup>th</sup>

- B 12<sup>th</sup>
- C 16<sup>th</sup>
- D 19<sup>th</sup>

Answer: B

**Explanation:**

Ishan is 14th from last so Ishan is  $30-14+1 = 17$ th from start  
Aman is five ahead of Ishan so we get Aman's rank as  $17-5 = 12$ th from start

**Question 50**

A, B, C and D play tennis. B and C play football also. D does not play chess but plays badminton. Who plays only tennis?

- A D
- B B
- C A
- D C

Answer: C

**Explanation:**

B and C plays football and Tennis  
D plays badminton and Tennis  
so A plays only Tennis

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### Language Comprehension

**Instructions**

Read the given passage and answer the questions that follow.

Few doctor have any time for the study of philosophy, for their profession is an exacting one, and it is all they can do to keep abreast of its advances. What is true of Medical Science is also true of the whole civilized world. Men at present are so engrossed in their various occupations, in manufacturing goods, in buying and selling, in accumulating wealth or in struggling merely to maintain themselves that they have no time left to wonder what living is all about.

**Question 51**

The expression "it is all they can do" in the first sentence conveystheidea of all that

- A doctor can manage to do
- B philosophers say is good for man
- C doctors are expected to do
- D people today are willing to do

Answer: A

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**Question 52**

The expression that "their profession is an exacting one" is the best described by which one of the following statements?

- A Doctors have to be very precise in their work
- B Medical Science is a well-defined subject
- C Doctors have a challenging job with hardly any spare time
- D Medical Science is a more exact subject than philosophy

Answer: C

#### Question 53

The author compares medical profession with various other occupation in order to show that

- A Doctors are much more busy than people in other occupations
- B Doctor had to read a great deal online people in other occupations
- C The study of philosophy is particularly important to doctors
- D People in their occupations have no more time to study philosophy than doctors have

Answer: D

#### Instructions

Read the given passage and answer the questions that follow.

Our government has taken/ propose a number of major initiatives during the eleventh Five Year Plan. Some of the new initiative in the school and literacy sector and higher and technical education sector include : right of children to free and compulsory education, launching a Saakshar Bharat, ICT in secondary school and in open and distance learning. evolving a national curriculum framework for teacher education, examination reform in accordance with NCF- 2005, introducing a system of replacement of marks by grades at the secondary stage in school affiliated to CBSE. recommendation of Yash Pal Committee and National Knowledge Commission, establishment of 14 innovation Universities aiming at world class standards, setting up 10 new national institutes of technology. launching of new scheme of interest. subsidy on educational loan taken for professional courses by the economically weaker students, scheme for setting up of 374 model degree colleges in districts, 150 women's hostels for women of weaker sections and minorities, academic reforms like semester system, choice based credit system, regular revision of syllabi, impetus to research etc.

#### Question 54

The free and compulsory education bill of the eleventh Five Year Plan is a major initiative towards

- A Technical Education
- B Mass education
- C Replacing Grade to marks
- D Sarva Shiksha Abhiyan

Answer: C

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#### Question 55

Technical education is encouraged by our government by the introduction of

- A ICT in open and distance learning
- B Ten new National Institutes of Technology

- C Innovation Universities
- D The National Knowledge Commission

Answer: B

**Question 56**

In order to ensure all round development in the field of education our government should take steps towards

- A Educating all women and people below poverty line
- B The enhancement of the learning achievements
- C The implementation of the eleventh Five Year Plan and the eradication of caste, creed and gender bias
- D all of the above

Answer: D

**Question 57**

The overall idea behind the passage is

- A Importance to higher education
- B Importance to people below poverty line
- C Women's education
- D None of these

Answer: A

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**Instructions**

Read the given passage and answer the questions that follow.

Education is not only an instrument for enhancing efficiency but also an effective tool of augmenting and widening democratic participation and upgrading the overall quality of individual and society. India has a vast population and to capture the potential demographic dividend to remove the acute regional, social and gender imbalances. The government is committed to make concerted efforts for improving the quality of education as mere quantitative expansion will not deliver the desired results in view of the fast changing domestic and global scenario.

**Question 58**

High quality education can help the individual to balance between

- A the mark system and the grading system
- B regional, social and gender differences
- C the inequalities between the rich and the poor
- D the past, present and the future

Answer: B

**Question 59**

According to the author, education not only enhances the efficiency of the learner, it also

- A widens his / her democratic participation
- B upgrading overall quality of individual
- C improving society
- D all of the above

**Answer: D**

#### Question 60

**Mere quantitative expression of education doesn't deliver the desired results, because**

- A education is the overall growth of a person
- B the fast-changing global scenario is challenging
- C it is the duty of the government to improve the quality of education
- D people are willing to invest more on education

**Answer: B**

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#### Instructions

Read the given passage and answer the questions that follow.

Philosophy of Education is a label applied to the study of the purpose, process, nature and ideals of education. It can be considered a branch of both philosophy and education. Education can be defined as the teaching and learning of specific skills and imparting of knowledge, judgment and wisdom, is something broader than the societal institution of education we often speak of.

Many educationalists consider it a weak and woolly field, too far removed from the practical applications of the real world to be useful. But philosophers dating back to Plato and the Ancient Greeks have given the area much thought and emphasis, and there is little doubt that their work has helped shape the practice of education over the millennia.

Plato is the earliest important educational thinker, and education is an essential element in "The Republic" (his most important work on philosophy and political theory, written around 360 B.C.). In it, he advocates some rather extreme methods: removing children from their mothers' care and raising them as wards of the state, and differentiating children suitable to the various castes, the highest receiving the most education, so that they could act as guardians of the city and care for the less able. He believed that education should be holistic, including facts, skills, physical discipline, music and art. Plato believed that talent and intelligence is not distributed genetically and thus is to be found in children born to all classes, although his proposed system of selective public education for an educated minority of the population does not really follow a democratic model.

Aristotle considered human nature, habit and reason to be equally important forces to be cultivated in education, the ultimate aim of which should be to produce good and virtuous citizens. He proposed that teachers lead their students systematically, and that repetition be used as a key tool to develop good habits, unlike Socrates' emphasis on questioning his listeners to bring out their own ideas. He emphasized the balancing of the theoretical and practical aspects of subjects taught, among which he explicitly mentions reading, writing, mathematics, music, physical education, literature, history, and a wide range of sciences, as well as play, which he also considered important.

During the Medieval period, the idea of Perennialism was first formulated by St. Thomas Aquinas in his work "De Magistro". Perennialism holds that one should teach those things deemed to be of everlasting importance to all people everywhere, namely principles and reasoning, not just facts (which are apt to change over time), and that one should teach first about people, not machines or techniques. It was originally religious in nature, and it was only much later that a theory of secular perennialism developed.

#### Question 61

**What is the difference between the approaches of Socrates and Aristotle?**

- A Aristotle felt the need for repetition to develop good habits in students: Socrates felt that students need to be constantly questioned



- B Aristotle felt the need for rote-learning; Socrates emphasized on dialogic learning
- C There was no difference
- D Aristotle emphasized on the importance of paying attention to human nature; Socrates emphasized upon science

**Answer: A**

**Question 62**

**Why do educationists consider philosophy a 'weak and woolly' field?**

- A It is not practically applicable
- B Its theoretical concepts are easily understood
- C It is irrelevant for education
- D None of the above

**Answer: A**

**Question 63**

**Were Plato's beliefs about education democratic?**

- A He believed that only the rich have the right to acquire education
- B Yes
- C He believed that only a select few are meant to attend schools
- D He believed that all pupils are not talented

**Answer: B**

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**Question 64**

**Why did Aquinas propose a model of education which did not lay much emphasis on facts?**

- A Facts are not important
- B Facts do not lead to holistic education
- C Facts change with the changing times
- D Facts are frozen in time

**Answer: C**

**Instructions**

For the following questions answer them individually

**Question 65**

**Rama told his wife, he would not mind standing and eat the dinner. Choose the appropriate option for the underlined phrase**

- A stand and eat the dinner

- B stand and eating the dinner
- C standing and eating the dinner
- D no correction

Answer: C

**Question 66**

The sentence is underlined in three separate parts and each one is labeled as (a), (b), (c). Read the sentence to find out whether there is an error in any underlined part. No sentence has more than one error. If you think there is no error in any part. You can choose option (d) :

If she will be promoted (a)/ she will get (b)/ a higher salary.(c)/ No error(d).

- A a
- B b
- C c
- D d

Answer: D

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**Question 67**

Sabotage came from the French saboter, which means "to clatter with wooden shoes (sabots)".

- A which means "to
- B which means,"to
- C that means "to
- D that means -"to

Answer: A

**Question 68**

Choose the word that is most nearly like that expressed in following statement:  
One who is extremely fond of his wife :

- A Utopia
- B Uxorious
- C Polygamist
- D Recluse

Answer: B

**Question 69**

The train is expected to arrive between 11 pm to 12 pm Replace the underlined portion with the answer choice that results in a sentence that is clear and precise

- A The train is expecting to between by 11 pm to 12 pm.
- B The train is expected to arrive between 11 pm and 12 pm.
- C The train is expected to arrive between 11 pm or 12 pm.
- D The train is expected for arrival between 11 pm to 12 pm.

**Answer: B**

**Question 70**

The payment was collected by the hardworking salesman Find the alternative statement which meets the requirements of standard written English

- A The hardworking salesman collects the payment
- B The hardworking salesman was able to collect the payment.
- C The hardworking salesman collected the payment
- D To collect the payment the salesman had to work hard.

**Answer: C**

**Question 71**

Select the alternative that is the best substitute of the phrase. 'a loud, harsh, piercing cry'.

- A howl
- B Noise
- C Scream
- D Screech

**Answer: D**

**Question 72**

Choose the correct word/words to fill in the blanks.

Mr. Mehta, a biologist, spends three seasons in the US and returned with clear perceptions of that \_\_\_\_ and uninhabitable place.

- A arid
- B deserted
- C rare
- D nomadic

**Answer: B**

**Question 73**

In light of her extraordinary creative budgeting proposal, a recent poll put Susan ahead of George in the race for governor and found her to be the best candidate of the two.

- A** In light of her extraordinarily creative budgeting proposal, a recent poll put Susan ahead of George in the race for governor, finding Susan to be the best candidate of the two.
- B** A recent poll put Susan ahead of George. in the race for governor, found Susan to be the better candidate of the two because of her extraordinarily creative budgeting proposal.
- C** In light of her extraordinarily creative budgeting proposal, a recent poll put Susan ahead of George in the race for governor and found her to be the better candidate of the two.
- D** In light of her extraordinary creative budgeting proposal, a recent poll put Susan ahead of George in the race for governor and found her to be the best candidate of the two.

**Answer: C**

**Question 74**

Jessica Mitford wrote *The American Way of Death*, a best-selling book that led eventually to an official investigation of the funeral industry.

Replace the underlined portion with the answer choice that results in a sentence that is clear, precise and meets the requirements of standard written English

- A** that led eventually
- B** that had led eventually
- C** that eventually led
- D** which eventually led

**Answer: C**

**Question 75**

Choose the preferred idiom for the blanks :

I don't know I am ready to take the test now and I will ever be ready in the future.

- A** if, if
- B** whether, whether
- C** if, whether
- D** whether, if

**Answer: D**

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### General Awareness

**Instructions**

For the following questions answer them individually

**Question 76**

Which one of the following statements best describes the term Social Cost of Carbon?

It is a measure, in monetary value, of the

- A** long-term damage done by a tonne of  $CO_2$  emissions in a given year
- B** requirement of fossil fuels for a country to provide goods and services to its citizens, based on the burning of those fuels

- C efforts put in by climate refugee to adapt to live in a new place
- D contribution of an individual person to the carbon footprint on the planet Earth

Answer: A

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### Question 77

With reference to the State Legislative Council in India, which among the following statements is / are correct?

- (A) The Legislative Council is a continuing House & two-third of the members retire in two years.
- (B) Members of local bodies elect one-third of the total number of members of the legislative council
- (C) If a state legislative council is to be created or abolished, a resolution to that effect is to be first passed by the State legislature by a two-third majority

Choose the correct option from the options given below:

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

Answer: B

### Question 78

With which theatre in London. Shakespeare was associated with :

- A The Globe
- B London Coliseum
- C West End Theatre
- D Royal Court Theatre

Answer: A

### Question 79

Which of the following personalities has been appointed as the head of Tehelka Panel after the much in news resignation of its chief K.Venkataswamy?

- A G.C. Saxena
- B S.N. Variyawa
- C S.N. Phukan
- D Kuldeep Singh

Answer: C

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Question 80

How much India needs to invest on infrastructure to become USD trillion economy by 2024-25?

- A USD 1.2 trillion
- B USD 1.4 trillion
- C USD 1.6 trillion
- D USD 1.8 trillion

Answer: B

Question 81

Which of the following eminent personalities was the ninth monarch of Thailand from the Chakri Dynasty as Rama IX?

- A Sirikit Kitiyakara
- B Vajiralongkorn
- C Ananda Mahidol
- D Bhumibol Adulyadej

Answer: D

Question 82

Which of the following is not matched?

- A Article 54 : Presidential election
- B Article 55 : Manner of Presidential Election
- C Article 60 : Procedure for impeachment of the President
- D Article 123: Power of the President to promulgate ordinance

Answer: C

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Question 83

Which of the following committee made a recommendation that election commission should be a three member body?

- A Tarkunde Committee
- B Ashok Mehta Committee
- C Jeevan Reddy Committee
- D JP Committee

Answer: A

**Question 84**

The language and ideals of the Preamble of Constitution of India is influenced / borrowed from which of the following constitution(s)?

- (A) USA
- (B) France
- (C) Australia

Choose the correct answer from the options given below:

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

**Answer: C**

**Question 85**

In which among the following organ, "Bowman's Capsule" is found?

- A Liver
- B Kidney
- C Heart
- D Small intestine

**Answer: B**

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**Question 86**

Which of the following report is not matched correctly?

- A World Employment and Social Outlook: ILO
- B Global Financial Stability Report: IMF
- C Global Competitive Index: WEF
- D Global Economic Prospects:WTO

**Answer: D**

**Question 87**

If another global financial crisis happens in the near future, which of the following actions/ policies are most likely to give some immunity to India?

- (A) Not depending on short-term foreign borrowings.
- (B) Opening up to more foreign banks.
- (C) Maintaining full capital account convertibility.

Choose the correct answer using the options given below:

- A (A) only
- B (C) only

C (A) & (B) only

D (A), (B) & (C)

**Answer: A**

**Question 88**

Which one of the following was the official mascot of Khelo India Youth Games, 2020?

A Vijaya

B Yaya

C Rongmon

D Ammu

**Answer: A**

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**Question 89**

To conquer and annex Peshawar and Punjab. Mahmud of Ghazni defeated?

A Ghurids

B Arabs

C Karkotakas

D Hindushahis

**Answer: D**

**Question 90**

Consider the following statements regarding to the Sattriya dance and choose the correct answer from the options given below :

(A) Sattriya is a fusion of dance, drama and music.

(B) It follows the old living tradition of Vaishnavites of Assam.

(C) It is based on various Ragas and Talas of devotional songs of Tulsidas, Kabir and Mirabai.

A Only (C)

B Both (A) and (B)

C Both (A) and (C)

D All the above

**Answer: B**

**Question 91**

Which one of the following mountain range lies in between Caspian Sea and Black Sea?

A Caucasus

B Carpathians

C Apennine



D Elburz

Answer: A

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Question 92

The Economic Survey 2020 suggests Employee Stock Ownership for which sector?

A Manufacturing

B Banking

C Agriculture

D Infrastructure

Answer: B

Question 93

With the range of 16000 kms. which of the following is world's longest range intercontinental ballistic missile:

A SS-18 Satan

B Topolov-M

C DongFeng 5A

D Trident D5

Answer: A

Question 94

The Paithan (Jayakwadi) Hydro-electric project, completed with the help of Japan, is on the river:

A Ganga

B Kaveri

C Godavari

D Narmada

Answer: C

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Question 95

L&T Technology Services, the engineering services arm of Larsen and Toubro Group, informed that it will acquire a 100 % stake in which Texas-based company?

A PCL Construction

B Bechtel Group Inc

C Orchestra Technology

D Turner Construction

Answer: C

**Question 96**

Which of the following is the longest Indian Novel ever published in a single volume in English language:

A Train to Pakistan

B Revolution 2020

C A Suitable Boy

D The God of Small Things

Answer: C

**Question 97**

RBI's Mega Bank Consolidation Plan of Merger of 10 banks into 4 became effective from which date?

A 1 January, 2020

B 1 March, 2020

C 31 March, 2020

D 1 April, 2020

Answer: D

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**Question 98**

Consider the following :

(A) Mahavir Jayanti.

(B) Buddha Purnima,

(C) Guru Nank Jayanti

Which among the following may fall in the same months of the Gregorian calendar?

A (B) and (C)

B (A) and (B)

C (A) and (C)

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

Answer: B

**Question 99**

If we are using the following words in a game. Which game are we playing?

Break, Cannons, Cue, In off, Jigger, Scratch

A Billiards

B Bridge

C Polo

D Baseball

Answer: A

**Question 100**

The Vijayanagara king who employed skilled archers of the Turkish clan and raised the fighting capacity of his bowmen was :

A Bukka I

B Deva raya I

C Krishnadevaraya

D Ramaraya

Answer: B

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## Innovation and Entrepreneurship

**Instructions**

For the following questions answer them individually

**Question 101**

Some one legally appointed to sell off the assets of a bankrupt firm is called

A An Auctioneer

B A Liquidator

C A Terminator

D An advocate

Answer: B

**Question 102**

Mixed Economy refers to

A Coexistence of small and large industries

B Coexistence of agriculture and industry

C Coexistence of public and private sector

D Coexistence of domestic and foreign enterprises

Answer: C

**Question 103**

The term bootstrapping is often associated with

A Start-ups

B Venture Capital Funds

- C Financial institutions
- D Non-Financial Institutions

**Answer: A**

**Question 104**

**Ru Pay has been launched by**

- A National Securities Depository Limited
- B National Payments Corporation of India
- C Central Depository Services Limited
- D Reserve Bank of India

**Answer: B**

**Question 105**

**A startup defined as an entity that is headquartered in India, which was opened less than 10 years ago, and has an annual turn over less than**

- A Rs. 10 crore
- B Rs. 100 crore
- C Rs. 50 crore
- D Rs. 1 crore

**Answer: B**

**Question 106**

**Who has launched the UPI-based payments app in the country by the name of 'Tez'?**

- A IBM
- B Google
- C Microsoft
- D TCS

**Answer: B**

**Instructions**

After reading the passage given below, choose the best answer to each question that follows.

What advice would I give to new entrepreneurs who need funding? Forget about your business plan and buy a lottery ticket — your chances are better. My point is that when you need venture funding no one will give any money until you already have a marketable product. In other words, funding comes just when you do not need it. A myth is that the way to start a venture is to create a great business plan, perfect your pitch, and then present this to investors, starting with venture capitalists. If that does not work, you knock on the door of angel investors. But ask any entrepreneur who has called on venture capitalists and they will probably tell you that it is almost impossible to even get calls returned. If venture capitalists do respond and you are invited to present your idea, the process will drag on for many months while you borrow more and survive on hope. If you do hit the jackpot, you are required to let the investors make many of the business decisions in exchange for an investment. To be fair, most business plans do not deserve funding. Venture capitalists receive hundreds of plans every week, and few are worth the paper they are printed on. Everyone jumps on the same new trend, or the ideas are so far out that they have no chance of success. And great ideas are not enough: it takes experienced

management, excellent execution, and a receptive market. It is hard for even the best venture capitals to identify the potential successes. So what should an entrepreneur do? What all new entrepreneurs should understand is that, even if you have a realistic business plan for a great idea that can change the world, you need to develop it yourself until you can prove it. Focus on validating your idea and building it up. Raise money to get started by begging and borrowing from family and friends. And be prepared to dip into your savings and credit cards, obtain second mortgages, and perhaps look for consulting work or customer advances. There is no single recipe for developing your business idea yourself, but there are some essential ingredients. Here are some pointers: Consult widely. Share your ideas with those who have done it before. You can learn a lot from the experience of seasoned entrepreneurs, and they are much more approachable than you think. If you cannot find anyone who is excited about your idea, the chances are it is not worth being excited about. This may be time to reflect deeply and come up with another. Identify markets. Speak to anyone who can help you understand your target customers. If you can sell your concept, some customers may help you find it or agree to be a test site or a valuable reference. Customers do not usually know what they want, but they always know what they do not need. Make sure that there is a real need for your product. Start small. Your idea may be grand and have the potential to change the world, but you are only going to do this one step at a time. Look for simple solutions, test them and learn from the feedback. If you are starting a restaurant, work for some one else first. If you are creating a software product, learn by doing some consulting assignments or create some utilities. You do not have to start with the ultimate product. Watch every penny. Focus on revenue and profitability from the start. Find creative ways to earn cash by selling tactical products, prepaid licenses or royalties. Pay employees partially in stock. Look for access to free hardware or premises. And sweep the floors yourself. In short, use any methods to avoid costs. Prepare for the worst. It is going to take longer than you think. There will likely be product problems, unhappy customers, employee turnover, and lots of financial challenges. You may even fail a number of times before you achieve your goals. By learning from each success and failure alike, you increase the odds that you eventually make it. Keep your integrity. Never forget the importance of business ethics and your own values. Ethics need to be carefully sewn into the fabric of any start-up. And the only way to reach long-term success is by achieving outstanding customer satisfaction. With a lot of luck and hard work you may build a successful company that markets products customers really want. It is very likely that by this stage, you receive the phone calls from venture capitalists. This is the time to think of exit strategies and decide if you want to own a small piece of a big pie or a large piece of a small pie. (The passage taken from Book/News/Open source)

**Question 107**

**“a marketable product” as mentioned in the passage signifies:**

- A A product that appeals to buyers and sell at a certain price range to generate profit
- B A product that appeals to investors and help them get their money back
- C A product whose market value is increasing continuously and becoming difficult for buyers to buy the same
- D A product that is appreciated by the media houses and earn revenue from advertisements

**Answer: A**

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**Question 108**

**The phrase “and few are worth the paper they are printed on” as exists in the above passage means**

- A The ideas are good
- B Hardly any idea is good
- C Some ideas are good
- D The few ideas that are good can get others to invest in it

**Answer: B**

**Question 109**

**“Exit strategies”, as mentioned in the passage, signifies:**

- A An entrepreneur's strategic plan to sell his or her ownership in a company to investors or another company
- B An entrepreneur's strategic plan to execute the daily plan for his/her business

- C An entrepreneur's strategic plan to conduct exit interviews for employees who plan to leave
- D An entrepreneur's strategic plan to analyse market and exit from one product to another

Answer: A

**Question 110**

**According to the passage which are the essential ingredients for developing a business idea?**

- A Identify market but hide the idea from others
- B Consult widely. Share your ideas with entrepreneurs. Identify markets
- C Always share your ideas and go for joint ventures
- D Always speak to your investors first even before you develop your idea

Answer: B

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**Question 111**

**According to the given passage which of the following is NOT a correct statement?**

- A Ethics need to be carefully sewn into the fabric of any start-up
- B Share your ideas with those who have done it before
- C It also shows that the phenomenon is heterogeneous
- D In other words, funding comes just when you do not need it

Answer: C

**Question 112**

- A. It is hard for even the best venture capitals to identify the potential successes.**
- B. Focus on validating your idea and building it up.**

- A According to the above passage, both A and B are true
- B According to the above passage, both A and B are false
- C According to the above passage A is true and B is false
- D According to the above passage B is false and A is true

Answer: A

**Question 113**

**What are the two business ideas that are shared in the passage as examples?**

- A Starting a school and creating a web portal for selling grocery
- B Starting a clothing store and creating a web portal for house hold services
- C Starting a hospital and manufacturing a product
- D Starting a restaurant and creating a software product

Answer: D

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Question 114

Which of the following statements is true as per the given passage?

- A Investors always respond promptly to funding applications
- B Venture Capitalist is a sure source of funding for new businesses
- C Ethics need to be carefully sewn into the fabric of any start-up
- D The process of obtaining funding will proceed at a fast pace

Answer: C

Question 115

Which of the following advices are given by the writer in this passage?

- A Make sure that you have enough money before you start your business
- B Make sure you have secured an educational degree before you start your business
- C Make sure that there is a real need for your product. Start small
- D Make sure that you have approached an angel investor before you start your business

Answer: C

**Instructions**

For the following questions answer them individually

Question 116

The legal term for brandis :

- A Patent
- B Licence
- C Trademark
- D None of the above

Answer: C

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Question 117

Entrepreneurs are risk

- A Averse
- B Haters
- C Takers

D Lovers

**Answer: C**

**Question 118**

**Entrepreneurial intent is linked to:**

A Personality traits and the likelihood that an individual would set up a new venture

B High rewards and low risks

C Tapping opportunities and seeking recognition

D Managing resources and family context

**Answer: A**

**Question 119**

**What type of financing do "Angel investors" usually provide?**

A Debt

B Equity

C Stock sales

D None of the above

**Answer: B**

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**Question 120**

**Market segments should comprise of customers who:**

A Share similarities

B Do not share similarities

C Have bought the product or service previously

D Have not bought the product or service previously

**Answer: A**

**Question 121**

**The conclusion part of the business plan will identify the**

A Feasibility of the business.

B Market description

C Administrative aspects of the business

D Business suppliers

**Answer: A**



**Question 122**

The idea and actions that explain how an entrepreneur will make his/her venture profitable and impactful is commonly referred to as

- A Mission
- B Goal
- C Strategy
- D Objective

**Answer: C**

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**Question 123**

Among the barriers to entering an industry are:

- A Patents
- B Switching costs
- C Status symbols
- D All of the above

**Answer: A**

**Question 124**

Team members need a:

- A Similar set of competencies
- B Identical competencies
- C Diverse set of competencies
- D Unusual set of competencies

**Answer: C**

**Question 125**

A word, symbol, name, or device that a business uses to identify its goods and distinguish itself from others is called a

- A Trade Mark
- B Brand
- C Asset
- D Trade Secret

**Answer: A**

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