

Entrance Sample Questions

1. $f(x)$ is a continuous function that takes only rational values. If $f(0)=3$ then $f(2)$ is equal to:

A) 5
B) 1
C) 0
D) None of these

2.

Which of the following is a possible value of

$$\sin^{-1}\left(\cos\left(\frac{43\pi}{5}\right)\right) \text{ is}$$

A) $\frac{3\pi}{5}$ B) $-\frac{7\pi}{5}$ C) $\frac{\pi}{10}$ D) $-\frac{\pi}{10}$

3.

What is $\int_0^{\frac{\pi}{2}} \frac{\sin^3 x}{\sin^3 x + \cos^3 x} dx$?

A) π B) $\frac{\pi}{2}$ C) $\frac{\pi}{4}$ D) 0

4.

$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1+x & 1 \\ 1 & 1 & 1+y \end{vmatrix} \text{ equals}$$

A) $x + y$ B) xy C) $x - y$ D) $1 + x + y$

5. Solution of differential equation $x.dy - y.dx = Q$ represents:

- A. a rectangular hyperbola
- B. parabola whose vertex is at the origin
- C. straight line passing through the origin
- D. a circle whose center is at the origin

6.

What unit vector is parallel to the vector $-6\hat{i} + 8\hat{j}$?

- A) $-\frac{3}{2}\hat{i} + \frac{4}{3}\hat{j}$ B) $-\frac{3}{5}\hat{i} + \frac{4}{5}\hat{j}$ C) $\frac{3}{2}\hat{i} + \frac{8}{3}\hat{j}$ D) $\frac{3}{10}\hat{i} + \frac{8}{5}\hat{j}$

7. SCD, TEF, UGH, ____, WKL

- A) CMN
- B) UJI
- C) VIJ
- D) IJT

8. BINDING : BOOK

- A) criminal : gang
- B) Display : Museum
- C) Artist : carpenter
- D) Frame : picture

Q. At a small company, parking spaces are reserved for the top executives: CEO, president, vice president, secretary, and treasurer with the spaces lined up in that order. The parking lot guard can tell at a glance if the cars are parked correctly by looking at the color of the cars. The cars are yellow, green, purple, red, and blue, and the executives' names are Alice, Bert, Cheryl, David, and Enid.

- * The car in the first space is red.
- * A blue car is parked between the red car and the green car.
- * The car in the last space is purple.
- * The secretary drives a yellow car.
- * Alice's car is parked next to David's.
- * Enid drives a green car.
- * Bert's car is parked between Cheryl's and Enid's.
- * David's car is parked in the last space.

9. Who is the secretary?

- A) Enid
- B) David
- C) Cheryl
- D) Bert
- E) Alice

10. Who is the CEO ?

- A) Alice
- B) Bert
- C) Cheryl
- D) David
- E) Enid

11. Pointing to a photograph of a boy Suresh said, "He is the only son of my mother." How is Suresh related to that boy?

- A) Brother
- B) Uncle
- C) Cousin
- D) Father

12. For 5 pairs of values of x and y , the values of $x + y$ are 24, 28, 30, 33, 35, and variances of x and y are 6 and 2 respectively. Calculate the correlation coefficient between x and y .

- A) 0.97
- B) 0.98
- C) 0.99
- D) 1.00

13. If the two regression lines are perpendicular, then r is equal to .

- A) 1
- B) -1
- C) +1
- D) 0

14. In the method of least squares, the principle is to minimize the.

- A) Sum of errors
- B) Square of errors
- C) Sum of square for errors
- D) None of the above

15. Procedural biases arise in .

- A) Only complete census
- B) Only sample survey
- C) Both complete census and sample survey
- D) None of the above

16. Total number of possible samples of size 2 each drawn by SRSWR from a population of 6 members is.

- A) 64
- B) 15
- C) 30
- D) 36

17. In SRSWOR the probability that a particular member is included in the selected sample is.

- A) n/N
- B) $1/N$
- C) $1/n$
- D) N/n

18. Which of the following is a control chart for attribute.

- A) $\bar{X}$ chart
- B) R chart
- C) np chart
- D) None of these

19. LCL and UCL are generally at equal distance from the central line , the common distance being.

- A) 2σ
- B) 3σ
- C) σ
- D) None of the above

20. 12 men can complete a work in 8 days. 16 women can complete the same work in 12 days. 8 men and 8 women started working and worked for 6 days. How many more men are to be added to complete the remaining work in 1 day?

- A) 8
- B) 12
- C) 16
- D) 24

21. If the letters of the word SACHIN are arranged in all possible ways and these words are written out as in dictionary, then the word 'SACHIN' appears at serial number :

- A) 601
- B) 600
- C) 603
- D) 602

22. Let U be the universal set, A and B be the subsets of U . If $n(U) = 450$, $n(A) = 200$, $n(B) = 205$ and $n(A \cap B) = 15$, then $n(A' \cap B')$ is equal to:

(A' and B' are the complements of A and B , respectively)

- A) 55
- B) 60
- C) 65
- D) 70

23.

Correct Marks : 1 Wrong Marks : 0

A question is given, followed by two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

Four girls, A, B, C and D, and four boys, E, F, G and H, are sitting around a circular table facing the centre such that no two boys are adjacent to each other. The distances between two neighbors are equal for all the persons. Who is sitting between C and D?

Statements:

I. D is facing B, who is third to the right of E. A is facing C, and F is facing E.

II. C is facing A, who is between E and H. D is second to the left of A, and G is second to the right of H.

- A) Statement I alone is sufficient
- B) Statement II alone is sufficient
- C) Either statement I alone is sufficient or Statement II alone is sufficient
- D) Both statements I and II are needed

24. Statements: All the trucks are flies. Some scooters are flies.

Conclusions: 1) All the trucks are scooters. 2) Some scooters are trucks.

- A) Only (1) conclusion follows
- B) Only (2) conclusion follows
- C) Either (1) or (2) follows
- D) Neither (1) nor (2) follows
- E) Both (1) and (2) follow

25.

Consider the given statement and decide which of the given assumptions is/are implicit in the statement.

Statements:

Farmers are warned not to use chemical fertilisers just for the sake of increasing their crop yield.

Assumptions:

I. Crop yield would decrease as a result of using organic fertilisers.

II. Chemical fertilisers carry harmful effects.

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

Answer:

1. D
2. D
3. C
4. B
5. C
6. B
7. C
8. D
9. E
10. C
11. D
12. B
13. D
14. C
15. B
16. D
17. B
18. C
19. B
20. B
21. A
22. B
23. B
24. B
25. B

Maths

1.

The probability of guessing correctly at least 8 out of 10 answers on a true-false type examination is

- (a) $7/64$
- (b) $7/128$
- (c) $45/1024$
- (d) $7/41$

2.

Maximize $Z = 4x + 6y$, subject to $3x + 2y \leq 12$, $x + y \geq 4$, $x, y \geq 0$.

- (a) 16 at (4, 0)
- (b) 24 at (0, 4)
- (c) 24 at (6, 0)
- (d) 36 at (0, 6)

3.

The shortest distance between the lines

$$\frac{(x-3)}{3} = \frac{(y-8)}{-1} = \frac{(z-3)}{1} \text{ and}$$

$$\frac{(x+3)}{-3} = \frac{(y+7)}{2} = \frac{(z-6)}{4} \text{ is equal}$$

- (a) $3\sqrt{30}$
- (b) $\sqrt{30}$
- (c) $2\sqrt{30}$
- (d) None of these

4.

The vectors

$$\lambda \mathbf{i}^\wedge + \mathbf{j}^\wedge + 2\mathbf{k}^\wedge,$$

$$\mathbf{i}^\wedge + \lambda \mathbf{j}^\wedge - \mathbf{k}^\wedge \text{ and}$$

$$2\mathbf{i}^\wedge - \mathbf{j}^\wedge + \lambda \mathbf{k}^\wedge \text{ are coplanar if}$$

- (a) $\lambda = -2$
- (b) $\lambda = 0$
- (c) $\lambda = 1$
- (d) $\lambda = -1$

5.

Find the area enclosed by the parabola $4y = 3x^2$ and the line $2y = 3x + 12$.

- (a) 27 sq. units
- (b) 28 sq. units
- (c) 54 sq. units
- (d) 30 sq. units

6.

The function $f(x) = \tan^{-1}(\sin x + \cos x)$ is an increasing function in

- (a) $(\pi/4, \pi/2)$
- (b) $(-\pi/2, \pi/2)$
- (c) $(0, \pi/2)$
- (d) None of these

7.

Find the minor of the element of second row and third column in the following determinant

$$\begin{bmatrix} 2 & -3 & 5 \\ 6 & 0 & 4 \\ 1 & 5 & -7 \end{bmatrix}$$

- (a) 13
- (b) 4
- (c) 5
- (d) 0

8.

If $A = \begin{bmatrix} 0 & -1 & 2 \\ 1 & 0 & 3 \\ -2 & -3 & 0 \end{bmatrix}$, then $A + 2A^T$ equals

- (a) A
- (b) $-A^T$
- (c) A^T
- (d) $2A^2$

9.

The binary operation $*$ defined on set R, given by $a * b = \frac{a+b}{2}$ for all $a, b \in R$ is

- (a) commutative
- (b) associative
- (c) Both (a) and (b)
- (d) None of these

10.

The period of $\sin^2 \theta$ is

- (a) π^2
- (b) π
- (c) 2π
- (d) $\frac{\pi}{2}$

11.

The value of $\cos^{-1}(\frac{1}{2}) + 2\sin^{-1}(\frac{1}{2})$ is equal to

- (a) $\frac{\pi}{4}$
- (b) $\frac{\pi}{6}$
- (c) $\frac{2\pi}{3}$
- (d) $\frac{5\pi}{6}$

12.

If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ then

- (a) $|A| = 0$
- (b) A^{-1} exists
- (c) A^{-1} does not exist
- (d) None of these

13.

The number of distinct real roots of $\begin{bmatrix} \sin x & \cos x & \cos x \\ \cos x & \sin x & \cos x \\ \cos x & \cos x & \sin x \end{bmatrix} = 0$ in the interval $-\frac{\pi}{4} \leq x \leq \frac{\pi}{4}$ is

- (a) 0
- (b) 2
- (c) 1
- (d) 3

14.

let $f(2) = 4$ then $f'(2) = 4$ then $\lim_{x \rightarrow 2} \frac{xf(2) - 2f(x)}{x-2}$ is given by

- (a) 2
- (b) -2
- (c) -4
- (d) 3

15.

If x is real, the minimum value of $x^2 - 8x + 17$ is

- (a) -1
- (b) 0
- (c) 1
- (d) 2

16.

What is the value of $\int_{\pi/6}^{\pi/3} \frac{dx}{\sin 2x}$?

- (a) $\frac{1}{2} \log(-1)$
- (b) $\log(-1)$
- (c) $\log 3$
- (d) $\log \sqrt{3}$

17.

Area of triangle whose two vertices formed from the x -axis and line $y = 3 - |x|$ is,

- (a) 9 sq. units
- (b) $\frac{3}{2}$ sq. units
- (c) 3 sq. units
- (d) None of these

18.

$\tan^{-1} x + \tan^{-1} y = c$ is the general solution of the differential equation

- (a) $\frac{dy}{dx} = \frac{1+y^2}{1+x^2}$
- (b) $\frac{dy}{dx} = \frac{1+x^2}{1+y^2}$
- (c) $(1+x^2)dy + (1+y^2)dx = 0$
- (d) $(1+x^2)dx + (1+y^2)dy = 0$

19.

Unit vector perpendicular to each of the vector $3\hat{i} + \hat{j} + 2\hat{k}$ and $2\hat{i} - 2\hat{j} + 4\hat{k}$ is

- (a) $\frac{\hat{i} + \hat{j} + \hat{k}}{\sqrt{3}}$
- (b) $\frac{\hat{i} - \hat{j} + \hat{k}}{\sqrt{3}}$
- (c) $\frac{\hat{i} - \hat{j} - \hat{k}}{\sqrt{3}}$
- (d) $\frac{\hat{i} + \hat{j} - \hat{k}}{\sqrt{3}}$

20.

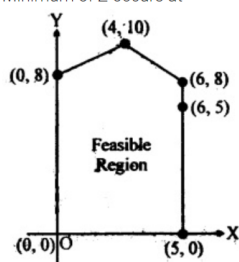
The direction ratios of a line are 1,3,5 then its direction cosines are

- (a) $\frac{1}{\sqrt{35}}, \frac{3}{\sqrt{35}}, \frac{5}{\sqrt{35}}$
- (b) $\frac{1}{9}, \frac{1}{3}, \frac{5}{9}$
- (c) $\frac{5}{\sqrt{35}}, \frac{3}{\sqrt{35}}, \frac{1}{\sqrt{35}}$
- (d) None of these

21.

The feasible region for a LPP is shown shaded in the figure. Let $Z = 3x - 4y$ be the objective function.

Minimum of Z occurs at



- (a) (0, 0)
- (b) (0, 8)
- (c) (5, 0)
- (d) (4, 10)

22.

The probability that A speaks truth is $\frac{4}{5}$ while this probability for B is $\frac{3}{4}$. The probability that they contradict each others when asked to speak a fact is

- (a) $\frac{7}{20}$
- (b) $\frac{1}{5}$
- (c) $\frac{3}{20}$
- (d) $\frac{4}{5}$

23.

A line passes through the point (3, -2). Find the locus of the middle point of the portion of the line intercepted between the axes.

1. $3y + 2x = 2xy$
2. $2y - 3x = 3xy$
3. $3y - 2x = 2xy$
4. $y - 2x = 4xy$

24.

The number of numbers between 74 and 25,556 divisible by 5 is

- (a) 5,090 (b) 5,097 (c) 5,095 (d) none of these

25.

Sum of the series $1 + 3 + 9 + 27 + \dots$ is 364. The number of terms is

- (a) 5 (b) 6 (c) 11 (d) none of these

26.

The n th term of the series $16, 8, 4, \dots$ in $1/2^{17}$. The value of n is

- (a) 20 (b) 21 (c) 22 (d) none of these

27.

Find three numbers in A.P. whose sum is 6 and the sum of their cubes is 232.

- (a) -2, 2, 6 (b) -1, 1, 3 (c) 1, 3, 5 (d) 1, 4, 7

28.

If $y = \frac{1}{\sqrt{x}}$ then $\frac{dy}{dx}$ is equal to

- a) $\frac{1}{2x\sqrt{x}}$ b) $\frac{-1}{x\sqrt{x}}$ c) $-\frac{1}{2x\sqrt{x}}$ d) none of these

29.

Evaluate $\int_0^1 (2x^2 - x^3) dx$ and the value is

- (a) $4/3 + k$ (b) $5/12$ (c) $-4/3$ (d) none of these

30.

If $y = (6x^5 - 7x^3 + 9)^{-1/3}$ then dy/dx is

- (a) $(-1/3)(6x^5 - 7x^3 + 9)^{4/3} (30x^4 - 21x^2)$ (b) $(1/3)(6x^5 - 7x^3 + 9)^{4/3} (30x^4 - 21x^2)$
(c) $(-1/3)(6x^5 - 7x^3 + 9)^{4/3} (30x^4 - 21x^2)$ (d) None

31.

Integrate w.r.t x , $x^{-3}[4x^6+3x^5+2x^4+x^3+x^2+1]$

- (a) $x^4+x^3+x^2+x+\log x-(1/2)x^{-2}+k$
 (b) $x^4+x^3+x^2+x+\log x+(1/2)x^{-2}+k$
 (c) $x^4+x^3+x^2+x+\log x+2x^{-2}+k$ (d) None

32.

Solving equation $\sqrt{x^2-9x+18}+\sqrt{x^2+2x-15}=\sqrt{x^2-4x+3}$ following roots are obtained

- (a) $3, \frac{2\pm\sqrt{91}}{3}$ (b) $\frac{2\pm\sqrt{94}}{3}$ (c) $4, -\frac{8}{3}$ (d) $3, 4-\frac{8}{3}$

33.

If 12 school teams are participating in a quiz contest, then the number of ways the first, second and third positions may be won is

- a) 1,230 b) 1,320 c) 3,210 d) none of these

34.

The range of the function $f(x) = (1 + \sec^{-1}x)(1 + \cos^{-1}x)$ is

- (1) $(-\infty, \infty)$ (2) $(-\infty, 0] \cup [4, \infty)$
 (3) $\{1, (1+\pi)^2\}$ (4) $\{0, (1+\pi)^2\}$

35.

The number of arrangements in which the letters of the word 'MONDAY' be arranged so that the words thus formed begin with M and do not end with N is

- (a) 720 (b) 120 (c) 96 (d) none of these

36.

If there exists exactly two points on the $2x + y = \lambda$; $\lambda \in \mathbb{R}$ from which mutually perpendicular

tangents can be drawn to the ellipse $\frac{x^2}{4} + \frac{y^2}{1} = 1$, then

- (1) $|\lambda| = 3$ (2) $|\lambda| < 5$ (3) $|\lambda| > 5$ (4) $|\lambda| < 3$

37.

8 points are marked on the circumference of a circle. The number of chords obtained by joining these in pairs is

- (a) 25 (b) 27 (c) 28 (d) none of these

38.

In any triangle ABC (with usual notation). Let $\cot A = \sqrt{ac}$, $\cot B = \sqrt{\frac{c}{a}}$, $\cot C = \sqrt{\frac{a^3}{c}}$, then which

of the following is true

- (1) $a + a^2 = 1 - c$ (2) $a + a^2 = 1 + c$
 (3) $a + a^2 = 2 - c$ (4) $1 + a + a^2 = c$

39.

The number of even numbers greater than 300 can be formed with the digits 1, 2, 3, 4, 5 without repetition is

- (a) 110 (b) 112 (c) 111 (d) none of these

40.

Consider the hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$. Area of the triangle formed by the asymptotes and the tangent drawn to it at (a,0) is

- (1) $ab/2$ (2) ab (3) $2ab$ (4) $4ab$

English

1.

8. He has taken my car.

- A. ☐ a
B. ☐ an
C. ☐ the
D. ☐ none of the above

2.

78. Umma, accompanied by her brother, at the party.

- A. ☐ is
B. ☐ are
C. ☐ was
D. ☐ were

3.

8. light comes from the sun.

- A. ☐ a
B. ☐ an
C. ☐ the
D. ☐ no article

4.

8. What is the cause the problem?

- A. ☐ of
B. ☐ on
C. ☐ about
D. ☐ in

5.

8. He said to me, I have often told you not to play with fire.

- A. ☐ He said that he has often been telling me not to play with fire.
- B. ☐ He told me that he had often told me not to play with fire.
- C. ☐ He reminded me that he often said to me not to play with fire.
- D. ☐ He said to me that he often told me not to play with fire.

6.

8. Who can count the stars in the sky?

- A. ☐ By whom can the stars in the sky be counted?
- B. ☐ By whom can be stars in the sky counted?
- C. ☐ By whom could the stars be counted in the sky?
- D. ☐ By whom could the stars in the sky by counted?

7.

8. Synonym of **INSIDIOUS**

- A. ☐ Slow
- B. ☐ Treacherous
- C. ☐ Pessimistic
- D. ☐ Unfortunate

8.

68. Synonym of **AUDACIOUS**

- A. ☐ Obvious
- B. ☐ Daring
- C. ☐ Manifest
- D. ☐ Venture

9.

Antonym

57. **RELINQUISH**

- A. ☐ Abdicate
- B. ☐ Renounce
- C. ☐ Possess
- D. ☐ Deny

10.

8. A sad song:

- A. ☐ Ditty
- B. ☐ Knell
- C. ☐ Dirge
- D. ☐ Lay

11.

10. A person who loves everybody:

- A. ☐ Cosmopolitan
- B. ☐ Fratricide
- C. ☐ Altruistic
- D. ☐ Aristocrat

12.

8. To be above board

- A. ☐ To have a good height
- B. ☐ To be honest in any business deal
- C. ☐ They have no debts
- D. ☐ To try to be beautiful
- E. ☐ None of these

13.

8. Find the correct spelt word.

- A. ☐ Aberant
- B. ☐ Abbarant
- C. ☐ Aberrant
- D. ☐ Abberant

14.

8. Unlike his calmer, more easygoing colleagues, the senator was _____, ready to quarrel at the slightest provocation.

- A. ☐ whimsical
- B. ☐ irascible
- C. ☐ gregarious
- D. ☐ ineffectual

15.

8. If you smuggle goods into the country, they may be by the customs authority.

- A. ☐ possessed
- B. ☐ punished
- C. ☐ confiscated
- D. ☐ fined

16.

8. Although initial investigations pointed towards him

- A. ☐ the preceding events corroborated his involvement in the crime
- B. ☐ the additional information confirmed his guilt
- C. ☐ the subsequent events established that he was guilty
- D. ☐ the subsequent events proved that he was innocent
- E. ☐ he gave an open confession of his crime

17.

8. Everyone knows / that the leopard is / faster / of all animals.

- A. ☐ Everyone knows
- B. ☐ that the leopards is
- C. ☐ faster
- D. ☐ of all animals
- E. ☐ No Error

18.

8. John had told me that he hasn't done it yet.

- A. ☐ told
- B. ☐ tells
- C. ☐ was telling
- D. ☐ No improvement

19.

8. 1. seen

2. going

3. you

4. him

5. have

- A. ☐ 35214
- B. ☐ 35142
- C. ☐ 32514
- D. ☐ 35124
- E. ☐ 53124

20.

8. The grocer

P : did not listen to the protests of customer

Q : who was in the habit of weighing less

R : whom he had cheated

S : with great audacity

The Proper sequence should be:

A. ☐ PRSQ

B. ☐ QSPR

C. ☐ QPRS

D. ☐ PQSR

Logical Reasoning

1.

18. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

TAILOR : SUIT

A. ☐ scheme : agent

B. ☐ edit : manuscript

C. ☐ revise : writer

D. ☐ mention : opinion

E. ☐ implode : building

2.

18. Choose the word which is different from the rest.

A. ☐ Chameleon

B. ☐ Crocodile

C. ☐ Alligator

D. ☐ Locust

E. ☐ Salamander

3.

19. Find the odd number / letters / word from the given alternative.

A. ☐ Pigeon

B. ☐ Crow

C. ☐ Parrot

D. ☐ Kiwi

4.

18. What will come at the place of question mark ?
9, 27, 31, 155, 161, 1127, ?

- A. ☐ 316
- B. ☐ 1135
- C. ☐ 1288
- D. ☐ 2254

5.

18. 9, 27, 31, 155, 161, 1127, ?

- A. ☐ 316
- B. ☐ 1135
- C. ☐ 1288
- D. ☐ 2254

6.

18. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

ac _ cab _ baca _ aba _ acac

- A. ☐ aacb
- B. ☐ aebe
- C. ☐ babb
- D. ☐ bcbb

7.

28. Arrange the words given below in a meaningful sequence.

1. Windows
2. Walls
3. Floor
4. Foundation
5. Roof
6. Room

- A. ☐ 4, 1, 5, 6, 2, 3
- B. ☐ 4, 2, 1, 5, 3, 6
- C. ☐ 4, 3, 5, 6, 2, 1
- D. ☐ 4, 5, 3, 2, 1, 6

8.

18. If,

(a) QUO CUI HEER means BOY IS GOOD.

(b) LAI QUO MEA means SITA IS FAIR.

(c) RUO LEV MEA means ALL ARE FAIR.

(d) SI HAI CUI means DOG WAS GOOD.

then which of the following words stands for BOY ?

- A. ☐ Quo
- B. ☐ Lai
- C. ☐ Cui
- D. ☐ Heer

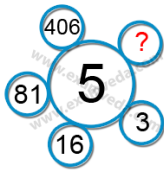
9.

18. Rasik walked 20 m towards north. Then he turned right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Finally he turns left and walks 15 m. In which direction and how many metres is he from the starting position?

- A. ☐ 15 m West
- B. ☐ 30 m East
- C. ☐ 30 m West
- D. ☐ 45 m East

10.

18. Find the missing character.



- A. ☐ 1
- B. ☐ 731
- C. ☐ 1625
- D. ☐ 2031

11.

18. Find the missing character?



- A. ☐ T
- B. ☐ O
- C. ☐ K
- D. ☐ I

12.

18. M scores more run than N but less than P. Q scores more than N but less than M. Who is the lowest scorer?

- A. ☐ M
- B. ☐ N
- C. ☐ P
- D. ☐ Q

13.

18. Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer :

Statement : "This drink can be had either as it is, or after adding ice to it." - An advertisement.

Assumptions :

- I. People differ in their preferences.
- II. Some people will get attracted to the drink as it can be had as it is.

- A. ☐ Only assumption I is implicit
- B. ☐ Only assumption II is implicit
- C. ☐ Either I or II is implicit
- D. ☐ Neither I nor II is implicit
- E. ☐ Both I and II are implicit

14.

18. Question : On which day of the week was birthday of Sahil ?

Statements :

- I. Sahil celebrated his birthday the very next day on which Arun celebrated his birthday.
- II. The sister of Sahil was born on the third day of the week and two days after Sahil was born.

- A. ☐ I alone is sufficient while II alone is not sufficient
- B. ☐ II alone is sufficient while I alone is not sufficient
- C. ☐ Either I or II is sufficient
- D. ☐ Neither I nor II is sufficient
- E. ☐ Both I and II are sufficient

15.

18. Statements : Some clips are copies. Some copies are magazines. No magazines is a dictionary

Conclusions :

- I. No copies are dictionary.
- II. Some copies are dictionary.
- III. Some copies are not dictionary.
- IV. No clips are magazines.

- A. ☐ Only III follows
- B. ☐ Only either I or II or III follows
- C. ☐ Only I follows
- D. ☐ Only either I or II follows
- E. ☐ None of these

16.

18. A man wears socks of two colours - Black and brown. He has altogether 20 black socks and 20 brown socks in a drawer. Supposing he has to take out the socks in the dark, how many must he take out to be sure that he has a matching pair ?

- A. ☐ 3
- B. ☐ 20
- C. ☐ 39
- D. ☐ None of these

17.

18. Suresh's sister is the wife of Ram. Ram is Rani's brother. Ram's father is Madhur. Sheetal is Ram's grandmother. Rema is Sheetal's daughter-in-law. Rohit is Rani's brother's son. Who is Rohit to Suresh ?

- A. ☐ Brother-in-law
- B. ☐ Son
- C. ☐ Brother
- D. ☐ Nephew

18.

18. Here are some words translated from an artificial language.

- I. *plekapaki* means fruitcake
- II. *pakishillen* means cakewalk
- III. *treftalan* means buttercup

Which word could mean "cupcake"?

- A. ☐ shillenalan
- B. ☐ treftpleka
- C. ☐ pakitreft
- D. ☐ alanpaki

19.

18. If the first two statements are true, the third statement is :

- I. On the day the Barton triplets are born,
 - II. Jenna weighs more than Jason.
 - III. Jason weighs less than Jasmine.
- Of the three babies, Jasmine weighs the most.

- A. ☐ true
- B. ☐ false
- C. ☐ uncertain

20.

18. The virtue of art does not allow the work to be interfered with or immediately ruled by anything other than itself. It insists that it alone shall touch the work in order to bring it into being. Art requires that nothing shall attain the work except through art itself.

This passage best supports the statement that:

- A. ☐ art is governed by external rules and conditions.
 - B. ☐ art is for the sake of art and life.
 - C. ☐ art is for the sake of art alone.
 - D. ☐ artist realises his dreams through his artistic creation.
 - E. ☐ artist should use his art for the sake of society.
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