

1) $36 \div 3$ of $4 + 19 = ?$

- A) 67 B) 20
C) 22 D) 27

2) $120 \div 4$ of $6 + 15 \times 3 - 2^3 = ?$

- A) 42 B) 50
C) 10 D) 45

3) 20% of 40 % of 625 + $7\frac{1}{6}$ of 12 =?

- A) 130 B) 136
C) 142 D) 148

4) $3\frac{1}{3} \div \frac{5}{3} - \frac{1}{10}$ of $2\frac{1}{2} + \frac{7}{4}$

- a) $4\frac{1}{2}$ b) $3\frac{1}{2}$
c) $2\frac{1}{2}$ d) $6\frac{1}{2}$

5) $\frac{\frac{2}{3} \div \frac{5}{6} \text{ of } \frac{3}{4}}{\frac{3}{2} \div \frac{3}{4} \times \frac{5}{8}} \div \frac{3\frac{1}{5}}{3\frac{1}{3}}$ of $\frac{375}{1000}$

- a) $5\frac{3}{9}$ b) $6\frac{4}{5}$
c) $6\frac{1}{3}$ d) $3\frac{6}{8}$

6) $\frac{9}{26} = \frac{1}{a+\frac{1}{b+\frac{1}{c}}}$, find the sum of abc?

- a) 11 b) 0 c) $-\frac{5}{2}$ d) $-\frac{1}{2}$

7) Square root of $\frac{4\frac{1}{7} - 2\frac{1}{4}}{3\frac{1}{2} + 1\frac{1}{7}} \div \frac{1}{2 + \frac{1}{2 + \frac{1}{5 - \frac{1}{5}}}}$

- a) 1 b) 3 c) 4 d) 2

8) What is the value of $\sqrt{7 + 4\sqrt{3}}$?

- a) $2 - \sqrt{3}$ b) $2 + \sqrt{3}$
c) $3 + \sqrt{3}$ d) $3 - \sqrt{3}$

9) If sum of square root of two integers is $\sqrt{14 + 8\sqrt{3}}$, then sum of square of these integers is

- a) 100 b) 288
c) 162 d) 144

10) While solving a problem, Samidha squared a number and then subtracted 25 from it rather than the required i.e., first subtracting 25 from the

number and then squaring it. But she got the right answer. What was the given number?

- a) 13 b) 38
c) 48 d) Cannot be determined

11) $\frac{(4.53-3.07)^2}{(3.07-2.15)(2.15-4.53)} + \frac{(3.07-2.15)^2}{(2.15-4.53)(4.53-3.07)} + \frac{(2.15-4.53)^2}{(4.53-3.07)(3.07-2.15)} +$ is simplified to :

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

12) $3\frac{4}{7} \div [(62 \% \text{ of } 620 \times 7) \div 2401] = ?^2$

- a) $\frac{25}{61}$ b) $(\frac{35}{62}) \times \sqrt{10}$
c) $(\frac{32}{75}) \times \sqrt{10}$ d) $\frac{52}{83}$

13) If $\sqrt{4096} = 64$, then the value of

$\sqrt{40.96} + \sqrt{0.4096} + \sqrt{0.004096} + \sqrt{0.00004096}$

- a) 7.09 c) 7.1014
b) 7.1104 d) 7.12

14) $\frac{1}{3} + \frac{1}{15} + \frac{1}{35} + \frac{1}{63} + \frac{1}{99} = ?$

- a) $\frac{10}{11}$ b) $\frac{5}{11}$
c) $\frac{9}{11}$ d) $\frac{7}{11}$

15) Tapas, Avi and Rishi shared a cake. Tapas has $\frac{1}{2}$ of it. Rishi had $\frac{1}{3}$ of it and Avi had the rest. What was Avi's share of the cake?

- a) $\frac{3}{5}$ b) $\frac{2}{6}$
c) $\frac{3}{6}$ d) $\frac{1}{6}$

Directions: Read the following information carefully and answer the questions given beside.

'Can be more less' coded as "gti hsi pqi mni"----- (1)
'Every can more than' coded as "hsi pqi aci zsi"-- (2)
'See more than less' coded as "aci bti pqi mni"--- (3)
'Be every right on' coded as "zsi hti rni gti" ----- (4)

1. What is the code for "Than"?

- A. aci B. pqi C. his D. mni
E. Either aci or pqi.

2. Code "mni" stands for which of the following?

- A. More B. Can C. Less D. Be
E. Either option A or C.

3. If the "left right" coded as "hti opi" than what is the code for "On"?

- A. Rni B. Hti C. Opi D. Either option A or B.
E. Cannot be determined

4. Code "zsi gti" stands for which of the following?

- A. Every than B. See than C. Every be
D. Be than E. Every more

5. What is the code for "Can"?

- A. His B. Pqi C. Gti D. Either hsi or gti.
E. Either gti or pqi.

Directions: Study the following information carefully and answer the questions given beside.

In a room there are three concentric tables placed such that the outermost table is rectangle shaped, the innermost table is square shaped and the table in the middle of these two tables is circle shaped. In the rectangular and square tables, persons can be seated at each of the four corners. The corners are numbered from 1 to 4 in clockwise direction in both the tables. Corner 1 is in North-West direction, corner 2 is in North-East direction, corner 3 is in South-East direction and corner 4 is in South-West direction from the centre respectively. 8 persons from A to H are seated equidistant around the circular table facing towards the centre. All of them are of different ages. Ages are to be considered in absolute numbers only.

B is third to the left of D, who is 24 years old. G is 11 years older than F, who is on the immediate left of B. C is second to the right of the one who is 48 years old. E is the oldest person and is seated adjacent to B. A is 3 years younger than E but more than 45 years in age. No one is older than 55 years. E's age is a prime number. B's age is 3 times the age of C. A is fourth to the right of E. H sits third to the left of F, who is 4 years older than C. H's age is the average of the ages of his immediate neighbours.

Another person J came and rolled dice 6 times and every time a different number appeared on the top of dice. Each number has some own conditions according to which the persons are to change their seating arrangement.

1. First time 5 appeared on dice, according to which the person with least prime numbered age (among

the given ages) will shift to seat number 3 of the rectangular table and face centre.

2. Second time 3 appeared on dice, which means the youngest person has to move to seat 4 of the square table and face away from the centre.

3. Third time 2 appeared on dice, which shows that the person with the highest even numbered age will shift towards his right and face outside.

4. Fourth time 4 came on dice and it signifies that the oldest person has to sit second to the left of C and face towards centre.

5. Fifth time 1 appeared on dice, according to which the person with the lowest even numbered age has to sit on seat 2 of rectangular table and facing towards the centre.

6. Sixth and the last time 6 appeared on dice, which means the person with highest odd numbered age has to sit at seat 4 of the rectangular table facing towards centre.

7. The above conditions are applicable in the order of the dice being rolled.

8. Position of one person is changed only once.

9. Only the persons sitting around the circular table comes under the purview of the above stated conditions.

Questions : 1. Who among the following still seated around the circular arrangement after re-arrangement?

- I. F
II. D
III. B
A. Only II B. Only I and II C. Only II and III
D. Only I and III E. None of these

2. What is the position of the oldest person with respect to A after the dice being rolled for third time?

- A. Fourth to the left B. Third to the left
C. Both are on different tables
D. Immediate right E. None of these

3. What is the sum of the ages of the persons that are seated at seat 2 of rectangular and square table after re-arrangement?

- A. 68 B. 42 C. 53 D. 73 E. None of these

4. Find the odd one out?

- A. E B. G C. H
D. F E. C

5. What is the position of H with respect to the youngest person in the initial arrangement?

- A. Second to the right B. Third to the right
C. Fourth to the left D. Immediate right
E. None of these

Directions: Study the following set of questions carefully and answer the questions given below.

A family of 10 members over three generation goes to a picnic. Kapil is the father of Bobby and has only one son. Ratna is the son-in-law of Atma and the father of Jetha. Sonu is the uncle of Champa. Charu is the aunt of Babita, who is the daughter of Daya. Daya is the daughter in law of Kapil. Atma is the mother of Charu who has two children. Each child has both of its parents alive.

1. Four of the following five are alike in the certain way and so form a group. Which is the one that does not belong to the group?

- A. Bobby B. Daya C. Sonu
D. Charu E. Ratna

2. How many male members are there in the family?

- A. 2 B. 3 C. 4 D. 5
E. Can't be determined

3. How is Jetha related to Atma?

- A. Mother B. Grandmother C. Grandson
D. Granddaughter E. Either C or D

4. How many married couples are there in the family?

- A. 1 B. 2 C. 3 D. 4
E. Can't be determined

5. How is Kapil related to Champa?

- A. Father in law B. Father
C. Grandfather D. Brother
E. None of these

Directions: Read the instructions carefully and answer the following questions. On a certain day Ram travelled from his home to playground. When he started walking from his house he was facing north direction and walked 10 m to north. Then he took right turn and walked 15 m. After walking 15 m he again turned right and walked 5 m. He again walked 30 m after turning right. Then he turned to his left and walked 10 m. Then he reached playground.

1. What is the distance between Ram's house and playground in straight line?

- A. $\sqrt{225}$ B. $\sqrt{250}$ C. $\sqrt{275}$

D. $\sqrt{215}$ E. None of These

2. When Ram started walking from his house in north direction and walked 10 m. Then he took right turn and walked 15 m and reached point L. Then what is the direction of point L with respect to Ram's house? A. South B. North East C. West D. South East E. South West

3. If point from where he took last turn to reach ground is point M. Then in which direction is Ram's house with respect to point M?

- A. South B. North East C. West
D. South West E. South East

4. Mohan who is Ram's friend is staying 15 m to east of playground. Then what is distance between Mohan and Ram's house?

- A. 5 m B. 15 m C. 10 m D. 20 m
E. None of these

5. Ram's office is 20 m to north of Ram's house. What direction of playground with respect to Ram's office?

- A. South East B. North East C. South
D. West E. South West

Directions : In each of the questions given below two statements are followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read the entire conclusion and then decided which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer.

Statements: 10% wind is not Door, 100% Door is not Plane

Conclusions:

- I. All wind is Door
II. Some Doors are Wind
A. Only conclusion I follows.
B. Only conclusion II follows.
C. Both I and II follow.
D. Either I or II follows.
E. Neither I nor II follows.

2. **Statements:** Only Plane are Doors 100 % planes are not wind

Conclusions:

- I. All Planes are Door
II. Some Planes being Wind is a possibility.
A. Only conclusion I follows.
B. Only conclusion II follows.
C. Both I and II follow.
D. Either I or II follows.
E. Neither I nor II follows.

3. Statements: All Sticks are Switches All Switches are Stairs

Conclusions:

- I. Some Sticks are Stairs
II. Some Stairs are Switches
A. Only conclusion I follows.
B. Only conclusion II follows.
C. Both I and II follow.
D. Either I or II follows.
E. Neither I nor II follows.

4. Statements: Some Stairs are Switches Some Switch are Sticks

Conclusions:

- I. All stairs can be Sticks
II. All Stairs are Sticks
A. Only conclusion I follows.
B. Only conclusion II follows.
C. Both I and II follow.
D. Either I or II follows.
E. Neither I nor II follows.

5. Statements: 70% Pen are 5G 64% Phones are 5G

Conclusions:

- I. Some pens are 5G
II. All phones are 5G
A. Only conclusion I follows.
B. Only conclusion II follows.
C. Both I and II follow.
D. Either I or II follows.
E. Neither I nor II follows

Directions: In these questions, relationship between different elements is shown in the statements. Some statements are followed by some conclusions. Choose the correct answer on the basis of information given below.

1. Statements: $B > A \geq T > F = Y \leq S < D$

Conclusions: $F < D, A > S$

- A. Only conclusion I follows
C. Only conclusion II follows
B. Either conclusion I or conclusion II follows
D. Both conclusions follow
E. Neither conclusion I nor conclusion II follows

2. Statements: $Y < O \leq G \leq K = U > L > P$

Conclusions: $O = U, U > O$

- A. Only conclusion I follows
C. Only conclusion II follows
B. Either conclusion I or conclusion II follows
D. Both conclusions follow

E. Neither conclusion I nor conclusion II follows

3. Statements: $M < T < G \leq J = U > Y > R$

Conclusions: $G < U, J > R$

- A. Only conclusion I follows
C. Only conclusion II follows
E. Neither conclusion I nor conclusion II follows
B. Either conclusion I or conclusion II follows
D. Both conclusions follow

4. Statement: $3 \geq 9 < 7 \leq 10 = 2 \leq 6$

Conclusions: I. $6 > 9$ II. $9 \leq 2$

- A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or conclusion II follows
D. Both conclusions follow
E. Neither conclusion I nor conclusion II follows

5. Statement: $P \leq R \leq C = S > Q > T$

Conclusions: I. $P < Q$ II. $S \geq P$

- A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or conclusion II follows
D. Both conclusions follow
E. Neither conclusion I or conclusion II follows.

Directions: Study the following information carefully and answer the questions given beside:

Eight persons namely Pravin, Qasim, Ranbir, Santhosh, Tushar, Umesh, Vinoth and Wafiq are sitting around the circular table but not necessarily in the same order. Some of them are facing inside the circle and some of them are facing outside the circle. Each of them likes different mobiles Infix, Lenovo, Asus, Vivo, Nokia, Redmi, Samsung and Sony but not necessarily in the same order. Ranbir is facing outside the circle and sits second to the right of the one who likes Nokia. Two persons sit between Vinoth and Tushar. Vinoth sits second to the right of Santhosh. Santhosh sits to the immediate left of the one who likes Nokia. The one who likes Asus sits opposite to the one who likes Samsung. Santhosh neither likes Asus nor Samsung. Qasim sits third to the right of Pravin, who sits to the immediate right of the one who likes Vivo. Ranbir likes Lenovo and is sitting exactly between the one who likes Redmi and the one who likes Asus. Qasim does not sit adjacent to Tushar. Pravin faces inside the circle. Qasim likes Redmi. Pravin does not like Nokia. Immediate neighbor of Tushar face same direction (if one faces inside the circle then the other also face inside the circle or vice versa). The one who likes Sony and the

one who likes Samsung are adjacent to each other. The one who likes Infix sit opposite to the one who likes Nokia. Umesh sits second to the right of Pravin. Wafiq sits third to the right of Umesh. Qasim and Vinoth face the same direction as Ranbir.

1. Who sits second to the right of Qasim?

- A. The one who sits second to the left of Ranbir.
B. The one who sits opposite to Vinoth.
C. The one who sits second to the right of Santhosh.
D. The one who sits immediate left of Pravin.
E. None of these

2. If Tushar is related to Infix and Wafiq is related to Samsung, in same way Qasim is related to?

- A. Nokia B. Asus C. Redmi
D. Vivo E. Samsung

3. Who among the following like Sony?

- A. The one who sits second to the left of Umesh.
B. The one who sits third to the left of Ranbir.
C. The one who sits third to the right of Tushar.
D. The one who sits fourth to the right of Santhosh.
E. None of these

4. How many persons sit between the one who like Vivo and Umesh, if counted from left of Umesh?

- A. One B. Two C. Three D. Four
E. None of the above

5. Which of the following statement is definitely true? A. Number of persons facing outside the circle is more than the number of persons facing inside the circle.

- B. The one who like Vivo and the one likes Infix are facing away from the centre.
C. Number of persons sits between Pravin and Ranbir is same as Umesh and Santhosh.
D. Wafiq and Vinoth sits opposite to each other and both of them faces same direction.
E. None is true

Mock Test: Quantitative Aptitude

1) Find the least number which when divided by 20, 25, 35 and 40 leaves remainders 14, 19, 29 and 34 respectively.

- A. 1256 B. 1394
C. 1056 D. 956

2) A total of 15,300 spectators visit a stadium to watch a match. The ratio of males to females in the spectators is 19 : 15 and the price of the ticket for each female is 25% less than that for each male. If the cost of all the tickets sold is Rs. 1,11,62,250, what is the price of the ticket for each male?

- A. Rs. 820 B. Rs. 615 C. Rs. 840

- D. Rs. 640 E. None of these

3) The ratio of the number of members in club A and B is $x : y$. In club A and B, 60% and 50% of the members respectively are male and the difference between the number of females is 9.09% of the total number of members in A and B together. What is the value of $5x + 3y$? (Females in B > Females in A)

- A. 43 B. 24 C. 32 D. 16 E. 54

4) In the income statement of Asha and Ravenna, the ratio of their income in the year 2017 was 5 : 4. The ratio of Asha's income in the year 2018 to that in 2017 is 3 : 5 and the ratio of Ravenna's income in the year 2018 to that in 2017 is 3 : 2. If Rs. 10242 is the sum of the income of Asha and Ravenna in the year 2018, then find the income of Ravenna in the year 2017?

- A. Rs. 1024 B. Rs. 1138 C. Rs. 2776
D. Rs. 2420 E. Rs. 4552

5) Three friends Aravind, Bharat and Chandu are about to have their breakfast. Aravind has 7 apples, Bharat has 5 apples and Chandu has no apples but has 12 coins. He offers to pay for some apples. They agree to share the 12 apples equally among themselves and agree that Chandu would pay 12 coins for his share. Bharat suggests that he be paid 5 coins and Aravind be paid 7 coins. Aravind says that he should get more than 7 coins. How much should Aravind get?

- A. 11 coins B. 10 coins C. 12 coins
D. 8 coins E. 9 coins

6) The average score in an examination taken by 52 students of a class is 85. If the scores of the best 5 performers are not considered, the average score of the remaining students falls by 2. If, none of the first five highest scorers is not below 80 and if each of the 5 top scorers had distinct integral scores, find the maximum possible score of the topper.

- A. 108 B. 109 C. 177 D. 193 E. 183

7) A Sculptor sells his two articles at 40% and 60% profit respectively. Total profit earned by him is Rs. 500. Cost price of first article is Rs. 100 less than the cost price of second article. Find cost price of second article.

- A. Rs. 450 B. Rs. 560 C. Rs. 480
D. Rs. 420 E. Rs. 540

8) Radha purchased a dress and sold it to Seema at a profit of 40%. Seema further sold it to Gyatri at a loss of 5%. If Gyatri bought that dress at Rs. 2660

then, find the cost at which Radha would have purchased it?

- A. Rs. 2400 B. Rs. 2000 C. Rs. 1800
D. Rs. 2100 E. Rs. 2200

9) Dhanush invested Rs. 800 in a scheme which is offering $5\frac{3}{4}\%$ per annum simple interest. After 2 years he withdrew the money from the scheme and invested the total amount in another scheme which gives an interest rate of $R\%$ per annum simple interest. After 3 more years, he received a total of Rs. 1214.40 then what is the difference between the rates of interest?

- A. 71 13 B. 83 7 C. 79 12
D. 86 3 E. None of these

11) Arjun distributed 65% of the money he had between A and B in the ratio 6 : 7 respectively. B and A deposited the amount received in a scheme offering 8% and 7% simple interest respectively for five years. Find the amount left with Arjun if the difference in the interests earned by A and B after five years is Rs. 1890. A. Rs. 17800 B. Rs. 18300
C. Rs. 18900

- D. Rs. 19500 E. None of these

12) After four years, the simple interest obtained on Rs. 8250 at the rate of $(x + 4)\%$ is Rs. 1320 more than the simple interest obtained at the rate of 8% per annum. Find the value of 'x'.

- A. 12% B. 10% C. 8%
D. 15% E. None of these

13) A person has Rs. 80000, 30% of which he invests at 15% p.a. CI for three years and rest he at 20% p.a. CI for two years. What is the difference (in Rs.) between the interest obtained from the two investments?

- A. 12124 B. 11884 C. 12424
D. 11346 E. 12139

14) Kiran invested a certain amount of money in a scheme offering 30% p.a. compound interest for two years. Vikash invested Rs. 2000 more amount than amount invested by Kiran in another scheme offering 35% p.a. simple interest for two years. Find the amount invested by Kiran if the difference in the interest earned by Kiran and Vikash is Rs. 1645.

- A. Rs. 24200 B. Rs. 23800 C. Rs. 20600
D. Rs. 24500 E. Rs. 22400

15) Atul deposited Rs. x in bank A at 25% p.a. simple interest for 3 years and deposited Rs. y in bank B at

20% p.a. compound interest for 2 years. The interest earned by Atul from bank A is Rs. 780 less than the interest earned by Atul from bank B and ratio of amount deposited by Atul in bank A to amount deposited by him in bank B is 1 : 2. Find the difference between x and y.

- A. 6600 B. 6000 C. 4500
D. 5000 E. 5400

16) In a train, there are three coaches numbered 1 to 3. In the 1st coach the chairs are numbered 101 to 130, in the 2nd coach the chairs are numbered 201 to 220 and in the 3rd coach the chairs are numbered 301 to 330. The chair occupancy was 50% in 1st coach, 80% in the 2nd coach and 40% in the 3rd coach. The chairs charges are Rs.200, Rs.150 and Rs.300 in each of the coach respectively. Then find the average income per chair in the train?

- A. Rs. 112.5 B. Rs. 217.4 C. Rs. 128.5
D. Rs. 231.4 E. None of these

17) Shatabdi Express has a capacity of 600 seats out of which 15% is in the Special VIP class, rest being VIP class seats. During its journey the train was booked to 80% of its full capacity. If Special VIP class was booked to 70% of its capacity, how many VIP class seats were empty during that journey?

- A. 95 B. 88 C. 93 D. 82 E. 75

18) Train 'A' of length 300m cross another train 'B' of length 200m which is approaching towards 'A' with speed 56km/hr. Train 'A' crosses a car travelling in the same direction as that of the train A and speed of car is 45km/hr. Find the ratio of the time taken by Train 'A' to cross the car to the time taken by Train 'A' to cross Train 'B' if the speed of Train 'A' is 66 km/hr.

- A. 121 : 35 B. 35 : 123 C. 122 : 35
D. 125 : 33 E. 127 : 45

19) Ratio between speed of boat in still water to speed of stream is 5 : 2. If 224 km is travelled by downstream in 4 hours then find the difference between speed of boat in still water and speed of stream?

- A. 24 km/hr B. 22 km/hr C. 28 km/hr
D. 26 km/hr E. 30 km/hr

20) If the upstream speed of a boat is 50% less than the downstream speed of the boat and if a object is thrown in the river it covers 100m in 50 sec, then

how much distance boat can cover in still water in 5 hours?

- A. 900 km B. 100 km C. 120 km
D. 108 km E. 105 km

21) A steamer can go 12 km in still water in 25 minutes. One day, it went 11.25 km upstream and returned the same distance in downstream. If the difference between the time taken to travel upstream and downstream was 12.5 minutes, then what was the speed of stream in km per hour?

- A. 7.2 B. 5.4 C. 6.3 D. 4.5 E. None of these

22) Six students take an exam two times. The increase in average marks of all the students from first test to second test is 30%. The difference of the total marks of first five students in the two tests is 20% of their total marks in second test. If in the first test the marks of the sixth student were mistakenly written $\frac{1}{9}$ times more than the original, what is the actual percentage increase in his marks?

- A. 57% B. 100% C. 72.22%
D. 80 E. None of these

23) Karan calculates the average of his marks in five subjects. By mistake he writes number of two subjects as reverse of original marks thereby increasing the average by 27 marks. If the incorrect numbers are in the ratio 13:10, what is the sum of the original numbers? (The marks awarded are from 01, 02 ... to 99)

- A. 35 B. 31 C. 43
D. 26 E. None of these

24) There are four sisters Bhavna, Geeta, Simran and Sania. The age of Sania is $(x - 5)$ years. The ratio of the age of Sania 5 years hence to the age of Geeta 2 years before is 5 : 4. The ratio of the age of Bhavna 1 year before to the age of Sania 3 years hence is 1 : 4. Sania is 7 years older than Geeta, then find the age of Simran whose age is 1 year less than average age of other 3 sisters.

- A. 38 years B. 46 years C. 40 years
D. 39 years E. 44 years

25) Mayank said to his friend "If you subtract 18 from my age the two digits of my age will reverse their positions. Also my age is six less than 8 times the sum of digits of my age". Find Mayank's age.

- A. 46 years B. 37 years C. 56 years
D. 50 years E. 42 years

26) Three workers Trump, Putin and Jinping are appointed to do a job. They together started the job

but Jinping left after 3 days when 37% of the job was done. The remaining job was completed by Trump and Putin in 7 days. The ratio of efficiency of Trump and Putin is 4 : 5. Find the number of days required by the slowest worker to complete the entire job alone?

- A. 22 days B. 20 days C. 24 days
D. 18 days E. 30 days

27) A group of men decided to do a job in 4 days, but 20 men dropped out everyday. Find the number of men who initially decided to do the job, if job was completed in 7 days?

- A. 70 B. 110 C. 140
D. 120 E. None of these

28) There are three taps namely A, B, and C are connected to a tank. Tap A can fill a tank in 16 hours and tap C can empty it in 40 hours. Tap A and B is opened to fill the tank with tap C to empty it. The tap is completely filled in 20 hours. In what time tap B can fill the tank completely if opened alone?

- A. 60 hours B. 80 hours C. 48 hours
D. 72 hours E. None of these

29) The average weight of the people in a Yoga class is 65 kg and the average weight of people in another class is 70 kg. Find the ratio of number of people in first class to that in second class, if the average weight of people in both the classes is 67 kg.

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

Directions: (30) Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

1. A boat goes downstream 6 km in 30 minutes and comes back to original point in R minutes. Find R if:
Statement I : Stream speed of the river is one-sixth the downstream speed of the boat.

Statement II : Ratio of upstream and downstream speed of the boat is 2 : 3.

- A. If the data in statement I alone is sufficient to answer the question while data in statement II alone is not sufficient to answer the question
B. If the data in statement II alone is sufficient to answer the question while data in statement I alone is not sufficient to answer the question

- C. If data either in statement I alone or statement II alone are sufficient to answer the question
 D. If data in both statements I & II together are necessary to answer the question
 E. If data given in both I & II together are not sufficient to answer the question

Directions (31) Each of the questions below consists of a question and three statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the statements and give answer:

1. What will be the cost of painting the four walls and ceiling of a room with length, width and height of 10 m, 15 m, and 20 m respectively? The room has two windows and one door.

Statement I: Cost of painting is Rs. 7 per square meter. **Statement II:** Area of the ground of the room is 150 sq. meter.

Statement III: Area of one window is 15 sq. meter which is 50% of the area of the door.

- A. The data in statements I and III together are sufficient to answer the question, while the data in statement II are not sufficient to answer the question.
 B. The data in statements I and II together are sufficient to answer the question, while the data in statement III are not sufficient to answer the question.
 C. The data in statement I, II and III together are not sufficient to answer the question.
 D. The data in statement only I and II together or only statement III are sufficient.
 E. The data in all the statements I, II and III together are necessary to answer the question.

Directions : (32 – 33) Data regarding number of boys & girls in both the colleges is as follows: -

Average no. of Girls in St. Xavier College and Vijaya College is 210 & total number of boys in both the college is 810. Number of Girls is $\frac{2}{3}$ of boys & number of Girls is $\frac{2}{5}$ of number of Boys in St. Xavier College and in Vijaya College respectively.

Find the total number of boys in X College, if the average number of girls in St. Xavier College and 'X' college is 320. Also, the total number of students in

'X' college is 25% more than total number of students in St. Xavier college.

- A 450 B. 400
 C. 375 D. 350
 E. 300

In a match of 50 overs, team A's average runs for first thirty overs was 4.5 runs/over while for the remaining 20 overs the average was 5.5 runs/over. Team B chased the target and lost by 10 runs. Find the average runs per over scored by team B. (team B played all the 50 overs).

- A. 4.4 B. 5.2
 C. 4.7 D. 5.6
 E. 3.8

Directions:(34 -35) Read the data carefully and answer the questions.

There are 3 colleges A, B, C offering 3 courses mechanical engineering (ME), chemical engineering (CE) & electrical engineering (EE).

College A: Number of students in ME is 40 less than that of in EE and number of students in CE is 50% more than that of in ME.

College B: Number of students in EE is 20 less than that of in EE in college A. Number of students in CE is 340 which is 40 more than that of in CE in college A. Number of students in EE is $22\frac{2}{9}\%$ more than that of in ME.

College C: Number of students in ME is 40% less than that of in ME in college A. Number of students in CE is 40 less than that of in ME.

Total students in EE in all colleges together are 780.

If 10% students of ME course from college A shifted to CE course in college C, then what is the difference between total number of students in CE in college C now and average of students in ME in all colleges now?

- (a) 60 (b) 380
 (c) 260 (d) 80
 (e) 180

What is the difference between average of total number of students in EE in all colleges and average of total number of students in CE in all colleges

- (a) 30 (b) 60
 (c) 40 (d) 20

(e) 50

English Language Mock Test

Part 1: Reading Comprehension (5 Questions)

"The integration of Artificial Intelligence (AI) into the financial sector has ushered in a paradigm shift. While efficiency in processing large datasets and predictive analytics have empowered banks, it has also introduced systemic vulnerabilities. Cybersecurity threats have evolved, necessitating a more robust framework for digital resilience. RBI's emphasis on 'Cyber Hygiene' is a response to this complexity, aiming to protect consumer trust in an increasingly digitized economy."

1. What is the "paradigm shift" mentioned in the passage? A) The replacement of human staff with AI. B) The integration of AI into the financial sector. C) The increase in global cybersecurity threats. D) The decline of traditional banking methods.

2. Why is a "robust framework" required according to the author? A) Because AI is too expensive. B) To comply with international banking laws. C) Due to the evolution of cybersecurity threats. D) To increase the number of bank branches.

3. What is the primary purpose of the RBI's emphasis on 'Cyber Hygiene'? A) To reduce the operational costs of banks. B) To replace human banking interactions with AI. C) To protect consumer trust in the digital economy. D) To promote the use of advanced computing.

4. Which word best describes the impact of AI on banks? A) Empowering B) Detrimental C) Irrelevant D) Stagnant

5. What does the term "systemic vulnerabilities" refer to in the context of the passage? A) Weaknesses in individual bank employees. B) Potential risks affecting the entire financial system. C) The high cost of implementing AI software. D) The lack of customer understanding of AI.

6. Neither the manager (A) / nor the employees (B) / were aware about (C) / the new policy. (D) / No error (E)

1) A 2) B 3) C 4) D 5) E

Part 2: Error Spotting (5 Questions)

7. The RBI has been (A) / trying to balance (B) / growth and inflation (C) / since many years. (D) / No error (E)

1) A 2) B 3) C 4) D 5) E

8. Each of the students (A) / have submitted (B) / their assignments (C) / on time. (D) / No error (E)

1) A 2) B 3) C 4) D 5) E

9. If I was you, (A) / I would have (B) / accepted the offer (C) / immediately. (D) / No error (E)

1) A 2) B 3) C 4) D 5) E

10. Scarcely had I (A) / entered the bank (B) / than the manager (C) / started questioning me. (D) / No error (E)

1) A 2) B 3) C 4) D 5) E

Part 3: Cloze Test (5 Questions)

The Indian banking sector is currently (11) a phase of rapid transformation. Digital adoption has (12) the way customers interact with financial institutions. However, this shift necessitates stringent regulatory oversight to ensure (13). The central bank continues to (14) a cautious approach, focusing on long-term stability rather than short-term gains, thereby ensuring that the financial architecture remains (15) against global shocks.

11. A) undergoing | B) ignoring | C) escaping | D) refusing

12. A) complicated | B) revolutionized | C) stagnated | D) confused

13. A) chaos | B) instability | C) security | D) laziness

14. A) abandon | B) maintain | C) reject | D) overlook

15. A) vulnerable | B) fragile | C) resilient | D) weak

Part 4: Sentence Rearrangement (5 Questions)

16-20. Rearrange the following to form a meaningful paragraph:

P) Moreover, credit growth has shown signs of revival in the industrial sector.

Q) The Indian economy is demonstrating resilience amidst global headwinds.

R) This improvement is largely attributed to proactive government policy interventions.

S) Consequently, the GDP projections for the next fiscal year have been revised upwards.

16. Which should be the first sentence?

- A) P B) Q C) R D) S

17. Which should be the second sentence?

- A) P B) Q C) R D) S

18. Which should be the third sentence?

- A) P B) Q C) R D) S

19. Which should be the fourth sentence?

- A) P B) Q C) R D) S

20. What is the correct order of the sentences?

- A) QSRP B) QSPR
C) SQRP D) RQSP

MOCK TEST CURRENT AFFAIRS

1. Who represented India at the swearing-in ceremony of Tarique Rahman as the Prime Minister of Bangladesh in February 2026?

- A) S. Jaishankar
B) Om Birla
C) Rajnath Singh
D) Amit Shah

2. India's first National Cow Culture Museum is being established in which city?

- A) Gandhinagar
B) Agra
C) Mathura
D) Varanasi

3. The Union Cabinet approved India's first underwater rail-cum-road tunnel beneath which river in Assam?

- A) Ganga
B) Brahmaputra
C) Yamuna
D) Godavari

4. What is the name of the AI-driven biotechnology portal launched by the Indian government in February 2026?

- A) SUJVIKA
B) BIOTECH-AI
C) VIGYAN
D) BHARAT-BIO

5. The PM RAHAT Scheme, discussed in February 2026, provides cashless treatment up to ₹1.5 lakh for which category of victims?

- A) Fire accident victims
B) Road accident victims
C) Natural disaster victims
D) Covid-19 survivors

6. Which athlete shattered the world indoor 800m record with a time of 1:54.87 in February 2026?

- A) Keely Hodgkinson
B) Aanchal Thakur
C) Jolanda Ceplak
D) Mary Kom

7. Which organization pre-qualified the new nOPV2 vaccine for the global elimination of Polio in February 2026?

- A) UNICEF
B) WHO
C) GAVI
D) ICMR

8. In the Union Budget 2026-27, what is the allocated outlay for the "Biopharma SHAKTI" mission over five years?

- A) ₹5,000 crore
B) ₹10,000 crore
C) ₹15,000 crore
D) ₹20,000 crore

9. Which Indian state's name was officially approved to be altered to "Keralam" in February 2026?

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

10. Who was appointed as the Executive Chairman of the National Legal Services Authority (NALSA) in early 2026?

- A) Justice Surya Kant
B) Justice Vikram Nath
C) Justice D.Y. Chandrachud
D) Justice Sanjiv Khanna

11. The "India AI Impact Summit 2026" was held in which city?

- A) Mumbai
B) Bengaluru
C) New Delhi
D) Hyderabad

12. Which team/organization dominated the medal tally at the Khelo India Winter Games 2026 concluded in Gulmarg?

- A) Himachal Pradesh
B) Indian Army
C) Jammu & Kashmir
D) Maharashtra

13. What is the theme of World Wetlands Day, observed on February 2, 2026?

- A) Wetlands and Water
B) Wetlands and Climate Change
C) Wetlands and Traditional Knowledge: Celebrating Cultural Heritage
D) Wetlands for a Sustainable Urban Future

14. Which company received a special US license in February 2026 to purchase Venezuelan oil directly?

- A) ONGC
- B) Indian Oil
- C) Reliance Industries Ltd
- D) Bharat Petroleum

15. Under the "Modi Govt Scheme 2026" for unemployed youth, what is the monthly assistance amount for female beneficiaries?

- A) ₹1,500
- B) ₹2,000
- C) ₹2,500
- D) ₹3,000

MOCK TEST Indian Constitutions

1. Which Article of the Indian Constitution is known as the "Heart and Soul of the Constitution" according to Dr. B.R. Ambedkar? A) Article 14

- B) Article 19
- C) Article 21
- D) Article 32

2. The concept of 'Single Citizenship' in the Indian Constitution is borrowed from which country? A) USA

- B) Britain (UK)
- C) Canada
- D) Ireland

3. Which schedule of the Indian Constitution deals with the allocation of seats in the Rajya Sabha? A) Third Schedule

- B) Fourth Schedule
- C) Fifth Schedule
- D) Sixth Schedule

4. Under which Article can the President of India declare a Financial Emergency? A) Article 352

- B) Article 356
- C) Article 360
- D) Article 368

5. The "Fundamental Duties" were added to the Constitution by which Amendment Act? A) 42nd Amendment

- B) 44th Amendment
- C) 61st Amendment
- D) 73rd Amendment

6. Who is the ex-officio Chairman of the Rajya Sabha?

- A) President of India
- B) Prime Minister of India
- C) Vice-President of India
- D) Speaker of Lok Sabha

7. What is the minimum age required to become the President of India? A) 25 years

- B) 30 years

C) 35 years

D) 45 years

8. Which Article of the Constitution provides for the "Abolition of Untouchability"? A) Article 15

- B) Article 16
- C) Article 17
- D) Article 18

9. The idea of 'Directive Principles of State Policy' (DPSP) was taken from the Constitution of: A) South Africa

- B) Ireland
- C) Germany
- D) Australia

10. How many members are nominated by the President to the Rajya Sabha? A) 2

- B) 10
- C) 12
- D) 15

11. Which Fundamental Right was removed from the list of Fundamental Rights by the 44th Amendment?

- A) Right to Liberty
- B) Right against Exploitation
- C) Right to Property
- D) Right to Equality

12. The "Joint Sitting" of both Houses of Parliament is presided over by: A) The President

- B) The Vice-President
- C) The Prime Minister
- D) The Speaker of Lok Sabha

13. In the Indian Constitution, the "Residual Powers" are vested with: A) State Governments

- B) The Union Government
- C) Both Union and State
- D) Local Governments

14. Which Article empowers the Parliament to amend the Constitution? A) Article 360

- B) Article 368
- C) Article 370
- D) Article 352

15. "Panchayati Raj" was first introduced in India in which state? A) Andhra Pradesh

- B) Rajasthan
- C) Gujarat
- D) Uttar Pradesh

16. The first meeting of the Constituent Assembly was held on: A) 9th December 1946

- B) 15th August 1947
- C) 26th January 1948
- D) 26th November 1949

17. Who was the Constitutional Advisor to the Constituent Assembly? A) Dr. Rajendra Prasad

- B) B.N. Rau

- C) Sardar Patel
D) K.M. Munshi

18. Article 51A of the Indian Constitution contains:

- A) Fundamental Rights
B) Directive Principles
C) Fundamental Duties
D) Emergency Provisions

19. What is the maximum interval allowed between two sessions of Parliament? A) 3 months

- B) 4 months
C) 6 months
D) 9 months

20. Which Part of the Constitution is related to the Municipalities? A) Part IX

- B) Part IX-A
C) Part X
D) Part IV

MOCK TEST Geography

1. Which of the following rivers is known as the "Sorrow of Bihar"? A) Ganga

- B) Kosi
C) Yamuna
D) Brahmaputra

2. Where is the headquarters of the South Central Railway (SCR) zone located? A) Chennai

- B) Hubli
C) Secunderabad
D) Mumbai

3. Which layer of the Earth's atmosphere is ideal for flying jet airplanes due to the absence of weather disturbances? A) Troposphere

- B) Stratosphere
C) Mesosphere
D) Exosphere

4. The "Suez Canal" connects which two water bodies? A) Atlantic Ocean and Pacific Ocean

- B) Mediterranean Sea and Red Sea
C) Red Sea and Arabian Sea
D) Black Sea and Caspian Sea

5. Which Indian state is the largest producer of Bauxite, accounting for nearly 50% of the country's total output? A) Jharkhand

- B) Odisha
C) Chhattisgarh
D) Madhya Pradesh

6. Which pass acts as the vital road link connecting Srinagar to Leh? A) Nathu La Pass

- B) Zoji La Pass
C) Rohtang Pass
D) Banihal Pass

7. "Saddle Peak," the highest point in the Andaman and Nicobar Islands, is located in: A) Great Nicobar

- B) Little Andaman
C) North Andaman
D) Middle Andaman

8. Which planet in our solar system currently holds the record for the highest number of confirmed moons (natural satellites)? A) Jupiter

- B) Saturn
C) Uranus
D) Neptune

9. The "Pampas" grasslands are primarily found in which continent? A) North America

- B) South America
C) Africa
D) Australia

10. Which river is famously referred to as "Dakshin Ganga" (Ganga of the South)? A) Krishna

- B) Kaveri
C) Godavari
D) Mahanadi

11. The "10 Degree Channel" separates which of the following? A) India and Sri Lanka

- B) Andaman and Nicobar Islands
C) Lakshadweep and Maldives
D) Minocoy and Amindivi

12. Which of the following is the smallest inhabited island in the Union Territory of Lakshadweep? A) Bitra

- B) Kavaratti
C) Agatti
D) Minicoy

13. In India, the "Bhabar" region is a narrow belt (8-16 km wide) characterized by pebbles and lies parallel to the: A) Himadri

- B) Himachal
C) Shiwaliks
D) Coastal Plains

14. Which city in India is located in a prominent "rain-shadow region"? A) Cochin

- B) Pune
C) Shillong
D) Mangaluru

15. The "Asthenosphere" is a highly viscous, mechanically weak region of the: A) Earth's Core

- B) Upper Mantle
C) Outer Crust
D) Inner Core

16. Which Indian state recorded the highest literacy rate according to the Census 2011? A) Mizoram

- B) Kerala
C) Goa

- D) Himachal Pradesh
17. The "Grand Canyon" in the USA is a world-famous example of a landform created by which river? A) Mississippi
B) Amazon
C) Colorado
D) Nile
18. Which of the following is a "West-flowing" peninsular river in India? A) Godavari
B) Krishna
C) Tapti
D) Mahanadi
19. What is the approximate percentage of the Earth's total land area covered by India? A) 2.0%
B) 2.4%
C) 2.8%
D) 3.2%
20. Which planet is often referred to as "Earth's Twin" because of its similar size and mass? A) Mars
B) Mercury
C) Venus
D) Saturn

Mock Test: History

1. Which was the only city of the Indus Valley Civilization without a citadel?
A) Kalibangan
B) Lothal
C) Chanhudaro
D) Mohenjo-Daro
2. The famous "Gayatri Mantra" is addressed to which Hindu deity?
A) Indra
B) Varuna
C) Savitri
D) Agni
3. Under whose reign was the Fourth Buddhist Council held in Kashmir?
A) Ashoka
B) Kanishka
C) Kalasoka
D) Ajatashatru
4. The "Prayag Prashasti" (Allahabad Pillar Inscription) provides information about the reign of:
A) Chandragupta Maurya
B) Samudragupta
C) Harshavardhana
D) Ashoka
5. Which traveler visited India during the reign of Chandragupta II (Vikramaditya)?
A) Hiuen Tsang

- B) Fa-Hien
C) Megasthenes
D) Ibn Battuta
6. Who was the first and only Muslim woman ruler of Delhi?
A) Chand Bibi
B) Nur Jahan
C) Razia Sultan
D) Mumtaz Mahal
7. The "Market Control Policy" was introduced in the Delhi Sultanate by:
A) Iltutmish
B) Balban
C) Alauddin Khalji
D) Muhammad bin Tughlaq
8. Which Mughal Emperor built the "Buland Darwaza" at Fatehpur Sikri?
A) Humayun
B) Akbar
C) Jahangir
D) Shah Jahan
9. The "Mansabdari System" was introduced by Akbar. What did the term 'Zat' signify in this system?
A) Number of horses
B) Personal status and salary
C) Administrative post
D) Military rank only
10. Who was the founder of the Brahmo Samaj (1828)?
A) Swami Vivekananda
B) Dayanand Saraswati
C) Raja Ram Mohan Roy
D) Ishwar Chandra Vidyasagar
11. The "Doctrine of Lapse" was an annexation policy followed by which Governor-General?
A) Lord Wellesley
B) Lord Dalhousie
C) Lord Canning
D) Lord Curzon
12. In which year did the "Sepoy Mutiny" (First War of Indian Independence) break out?
A) 1856
B) 1857
C) 1858
D) 1860
13. Who was the first President of the Indian National Congress (INC)?
A) A.O. Hume
B) W.C. Bonnerjee
C) Dadabhai Naoroji
D) Badruddin Tyabji

14. The "Partition of Bengal" (1905) was carried out under which Viceroy?

- A) Lord Minto
- B) Lord Chelmsford
- C) Lord Curzon
- D) Lord Irwin

15. Mahatma Gandhi started the "Dandi March" from Sabarmati Ashram in 1930 to protest against:

- A) Land Revenue
- B) Salt Tax
- C) Indigo Farming
- D) Rowlatt Act

16. Who is known as the "Grand Old Man of India"?

- A) Bal Gangadhar Tilak
- B) Dadabhai Naoroji
- C) Gopal Krishna Gokhale
- D) Lala Lajpat Rai

17. The "Swaraj Party" was formed in 1923 by Motilal Nehru and:

- A) C.R. Das
- B) Subhash Chandra Bose
- C) Jawaharlal Nehru
- D) Sardar Patel

18. Which movement was launched by the Indian National Congress after the failure of the Cripps Mission?

- A) Non-Cooperation Movement
- B) Civil Disobedience Movement
- C) Quit India Movement
- D) Swadeshi Movement

19. Who gave the slogan "Give me blood, and I shall give you freedom"?

- A) Bhagat Singh
- B) Chandra Shekhar Azad
- C) Subhash Chandra Bose
- D) V.D. Savarkar

20. Who was the Governor-General of India at the time of India's independence in 1947?

- A) Lord Wavell
- B) Lord Mountbatten
- C) C. Rajagopalachari
- D) Lord Linlithgow

Mock Test: Art & Culture (20 Questions)

1. Which classical dance form is known for its "Lasya" (feminine and graceful) style and is performed by women in honor of Lord Vishnu?

- A) Kathakali
- B) Mohiniyattam
- C) Sattriya
- D) Kuchipudi

2. The "Sangai Festival," a major cultural event, is celebrated annually in which Indian state?

- A) Nagaland
- B) Manipur
- C) Mizoram
- D) Assam

3. "Pandavani," a folk singing style involving the narration of tales from the Mahabharata, is primarily associated with which state?

- A) Madhya Pradesh
- B) Odisha
- C) Chhattisgarh
- D) Rajasthan

4. Which UNESCO World Heritage Site in India is famous for its "Whispering Gallery," where even the slightest sound can be heard clearly?

- A) Hampi
- B) Gol Gumbaz
- C) Konark Sun Temple
- D) Taj Mahal

5. The famous "Kalamkari" painting, which uses a pen for hand-painting on cotton textiles, originated in:

- A) West Bengal
- B) Andhra Pradesh
- C) Bihar
- D) Gujarat

6. Who among the following is widely regarded as the "Father of Indian Carnatic Music"?

- A) Tansen
- B) Purandaradasa
- C) Tyagaraja
- D) Amir Khusrau

7. "Kambala," an annual traditional buffalo race, is a popular festival celebrated in:

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

8. Which Indian city is the first to be recognized as a UNESCO World Heritage City (in 2017)?

- A) Jaipur
- B) Varanasi
- C) Ahmedabad
- D) Hampi

9. The "Ajanta Caves" in Maharashtra primarily feature paintings and sculptures depicting themes from:

- A) Hinduism
- B) Jainism
- C) Buddhism
- D) Zoroastrianism

10. "Sattriya," recognized as one of the eight classical dances of India, was introduced by which saint-reformer?

- A) Chaitanya Mahaprabhu
- B) Srimanta Sankaradeva
- C) Guru Nanak
- D) Vallabhacharya

11. Which musical instrument is Ustad Bismillah Khan famously associated with?

- A) Sitar
- B) Sarod
- C) Shehnai
- D) Flute

12. The "Madhubani" style of folk painting is traditional to which region?

- A) Malwa (Madhya Pradesh)
- B) Mithila (Bihar)
- C) Kutch (Gujarat)
- D) Mewar (Rajasthan)

13. In which state is the "Hornbill Festival" celebrated annually to protect and promote tribal culture?

- A) Meghalaya
- B) Arunachal Pradesh
- C) Nagaland
- D) Sikkim

14. Which temple is known as the "Black Pagoda" and is designed in the shape of a massive chariot?

- A) Jagannath Temple, Puri
- B) Brihadeshwara Temple, Thanjavur
- C) Sun Temple, Konark
- D) Meenakshi Temple, Madurai

15. "Cheraw" is a very old traditional bamboo dance associated with which state?

- A) Mizoram
- B) Tripura
- C) Manipur
- D) Nagaland

16. As of early 2026, which of the following is the latest entry (2025) into India's UNESCO World Heritage List?

- A) Shantiniketan
- B) Maratha Military Landscapes
- C) Moidams (Assam)
- D) Sacred Ensembles of the Hoysalas

17. The "Vamana" avatar of Lord Vishnu is celebrated in which major festival of Kerala?

- A) Vishu
- B) Onam
- C) Thrissur Pooram
- D) Makaravilakku

18. "Phulkari" is a traditional embroidery work that is a GI-tagged product of which state?

- A) Uttar Pradesh
- B) Punjab
- C) West Bengal
- D) Karnataka

19. Which classical dance form's name is derived from the word "Katha," meaning "a storyteller"?

- A) Kathakali
- B) Kathak
- C) Odissi
- D) Manipuri

20. The "Khajuraho Group of Monuments" in Madhya Pradesh was built by which dynasty?

- A) Chola Dynasty
- B) Chandela Dynasty
- C) Rashtrakuta Dynasty
- D) Pallava Dynasty

Advanced Science Mock Test

1. Which phenomenon causes the twinkling of stars and the appearance of the Sun a few minutes before actual sunrise?

- A) Dispersion
- B) Total Internal Reflection
- C) Atmospheric Refraction
- D) Diffraction

2. In a nuclear reactor, what is the function of "Heavy Water" (D₂O)?

- A) Coolant
- B) Moderator
- C) Control Rod
- D) Fuel

3. Which of the following is the correct order of the electromagnetic spectrum in terms of increasing frequency?

- A) Radio < Microwave < Infrared < Visible < UV < X-ray < Gamma
- B) Gamma < X-ray < UV < Visible < Infrared < Microwave < Radio
- C) Radio < Infrared < Visible < Microwave < UV < X-ray < Gamma
- D) Visible < Infrared < UV < Microwave < X-ray < Gamma < Radio

4. What happens to the boiling point of water when a non-volatile solute is added?

- A) Decreases
- B) Increases
- C) Remains the same
- D) Becomes zero

5. Which plant hormone is responsible for the ripening of fruits?

- A) Auxin
- B) Gibberellin
- C) Ethylene
- D) Abscisic Acid

6. The "Zeeman Effect" relates to the splitting of spectral lines in the presence of:

- A) Electric field
- B) Magnetic field
- C) Gravity
- D) Temperature

7. Which type of bond is formed by the complete transfer of electrons from one atom to another?

- A) Covalent bond
- B) Ionic bond
- C) Hydrogen bond
- D) Van der Waals force

8. The "Krebs Cycle," which produces energy for cells, takes place in which part of the mitochondria?

- A) Outer membrane
- B) Inner membrane
- C) Matrix
- D) Intermembrane space

9. Which law states that the volume of a given mass of gas is inversely proportional to its pressure at a constant temperature?

- A) Charles's Law
- B) Boyle's Law
- C) Avogadro's Law
- D) Graham's Law

10. What is the primary cause of the "Greenhouse Effect" in the atmosphere?

- A) Absorption of UV rays by Oxygen
- B) Absorption of Infrared radiation by gases like CO₂
- C) Reflection of light by clouds
- D) Depletion of the Ozone layer

11. Which acid is used in the lead-acid batteries found in vehicles?

- A) Hydrochloric acid
- B) Sulfuric acid
- C) Nitric acid
- D) Phosphoric acid

12. "Tidal Energy" is a form of energy that is derived from:

- A) Kinetic energy of waves
- B) Gravitational pull of the Moon and Sun
- C) Thermal gradients in the ocean
- D) Salinity differences

13. In the human nervous system, what is the gap between two neurons called?

- A) Axon

- B) Dendrite
- C) Synapse
- D) Node of Ranvier

14. Which isotope is used to determine the age of archaeological artifacts (Carbon dating)?

- A) Carbon-12
- B) Carbon-13
- C) Carbon-14
- D) Carbon-16

15. The "Refractive Index" of a medium is defined as:

- A) Speed of light in vacuum / Speed of light in medium
- B) Speed of light in medium / Speed of light in vacuum
- C) Speed of light in vacuum × Speed of light in medium
- D) None of the above

16. Which enzyme, found in saliva, breaks down starch into simple sugars?

- A) Pepsin
- B) Trypsin
- C) Amylase
- D) Lipase

17. What is the oxidation state of Manganese in KMnO₄?

- A) +4
- B) +6
- C) +7
- D) +2

18. Which phenomenon explains why the sky appears blue during the day?

- A) Refraction
- B) Reflection
- C) Rayleigh Scattering
- D) Dispersion

19. Which part of the human brain controls the body's balance and coordination?

- A) Cerebrum
- B) Cerebellum
- C) Medulla Oblongata
- D) Hypothalamus

20. What is the phenomenon of "Superconductivity" characterized by?

- A) High resistance at high temperature
- B) Zero electrical resistance at very low temperatures
- C) Infinite resistance at low temperature
- D) Magnetic permeability equal to zero

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