



PAPER – 3: QUANTITATIVE APTITUDE



QUESTIONS

1. Find missing term of the series 7,26, 63,124,215, 342, ?
 - (a) 391
 - (b) 421
 - (c) 481
 - (d) 511
2. In a certain code, KAVERI is written as VAKIRE. How is MYSORE written in that code?
 - (a) EROSYM
 - (b) SYMROE
 - (c) SYMERO
 - (d) SMYERP
3. In a certain code DECEMBER is written as ERMBCEDE. which word will written as ERMBVENO in that code?
 - (a) AUGUST
 - (b) SEPTEMBER
 - (c) OCTOBER
 - (d) NOVEMBER
4. Ravi faces towards North. Turning to his right, he walks 25 meters. He turns to his left and walks 30 meters. Next, he moves 25 meters to his right. He then turns to his right again and walks 55 meters. Finally, he

turns to the right and moves 40 meters. In which direction is he now from his starting point?

- (a) South-West
 - (b) South
 - (c) North-West
 - (d) South-East
5. Ponying to a gentleman, Deepak said, "His only brother is the father of my daughters father." How is gentleman related to Deepak?
- (a) Grandfather
 - (b) Father
 - (c) Uncle
 - (d) Brother-in-law
6. Find the value of p from $(\sqrt{4})^{-6} \times (\sqrt{2})^{-4} = 2^p$
- (a) 16
 - (b) 8
 - (c) -8
 - (d) 4
7. If $(7p + 3q) : (3p - 2q) = 43:2$, then p:q is _____
- (a) 5:4
 - (b) 4:5
 - (c) 7: 2
 - (d) 2:7
8. The sum of the digits of a two digit number is 10. If 18 be subtracted from it, the digits in the resulting number will be equal. The number is
- (a) 37
 - (b) 73

- (c) 64
 - (d) None of these
9. The difference between Compound Interest and Simple Interest on a certain sum for 2 years at 6% p.a. is Rs. 13.50. Find the sum
- (a) 3750
 - (b) 2750
 - (c) 4750
 - (d) none of these
10. A machine for which the useful life is estimated to be 5 years, Cost Rs. 5000 and Rate of depreciation is 10% p.a. The scrap value at the end of its life is
- (a) 2952.45
 - (b) 2500
 - (c) 3000
 - (d) 2559.50
11. Every two person shakes hands with each other in a party and the total number of hand shakes is 66. The number of guests in the party is
- (a) 11
 - (b) 12
 - (c) 13
 - (d) 14
12. The ways of selecting 4 letters from the word EXAMINATION is
- (a) 136
 - (b) 130
 - (c) 125
 - (d) none of these

13. If the A.M. and G.M. for two numbers are 6.50 and 6 respectively then the two numbers are
- 6 and 7
 - 9 and 4
 - 10 and 3
 - 8 and 5
14. The sixth term of a G.P. with common ratio as 2 and first term being 5 is_____.
- 160
 - 32
 - 800
 - 64
15. If $g(x) = x - 1/x$, $g(-1/2)$ is
- 1
 - 2
 - $1/2$
 - 3
16. $\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3}$ is equal to
- 0
 - 6
 - 6
 - Does not exist
17. Evaluate $\int_0^1 (2x^2 - x^3) dx$ and the value is
- $4/3$
 - $5/12$

- (c) $-4/3$
 (d) none of these
18. Find $\frac{dy}{dx}$ when $y = 4x^3 + 8x^7$ at $x^2 = 2$
 (a) 424
 (b) 470
 (c) 472
 (d) none of these
19. The best method to collect data in case of natural calamity is
 (a) Personal interview.
 (b) Telephone interview.
 (c) Mailed questionnaire method.
 (d) Indirect interview.
20. The entire upper part of a table is known as
 (a) Caption.
 (b) Stub.
 (c) Box head
 (d) Boady
21. Standard error can be described as
 (a) The error committed in sampling.
 (b) The error committed in sample survey.
 (c) The error committed in estimating a parameter.
 (d) Standard deviation of a statistic.
22. The standard deviation of 25, 32, 43, 53, 62, 59, 48, 31, 24, 33 is
 (a) 13.23
 (b) 12.23

- (c) 11.23
(d) none of these
23. What is the value of the first quartile for observations 15, 18, 10, 20, 23, 28, 12, 16?
- (a) 17
(b) 16
(c) 15.75
(d) 12
24. If the quartile deviation of a normal curve is 4.05, then its mean deviation is
- (a) 5.26
(b) 6.24
(c) 4.24
(d) 4.80
25. If there are two groups containing 30 and 20 observations and having 50 and 60 as arithmetic means, then the combined arithmetic mean is
- (a) 55
(b) 56
(c) 54
(d) 52
26. Two variables x and y are related by $5x + 2y + 5 = 0$ and $\bar{x} = 5$, then $\bar{y}$ is
- (a) 10
(b) -10
(c) 15
(d) -15

27. If Arithmetic Mean and coefficient of variation of x are 5 and 20 respectively. What is the variance of $(15-2x)$?
- (a) 16
(b) 4
(c) 64
(d) 32
28. The coefficient of correlation between two variables is 0.5, and then the coefficient of determination is
- (a) 0.5
(b) 0.25
(c) -0.5
(d) 0.05
29. If $r = 0.5$, $\sum xy = 120$, $\sigma_y = 8$, $\sum x^2 = 90$, then value of n is equal to _____
- (a) 5
(b) 10
(c) 15
(d) 20
30. What is the chance of picking a heart or a queen not of heart from a pack of 52 cards?
- (a) $17/52$
(b) $4/13$
(c) $1/3$
(d) $3/13$


SUGGESTED ANSWERS/HINTS

1.	(d)	2.	(c)	3.	(d)	4.	(d)	5.	(c)
6.	(c)	7.	(b)	8.	(b)	9.	(a)	10.	(a)
11.	(b)	12.	(a)	13.	(b)	14.	(a)	15.	(c)
16.	(b)	17.	(b)	18.	(c)	19.	(a)	20.	(c)
21.	(d)	22.	(a)	23.	(c)	24.	(d)	25.	(c)
26.	(d)	27.	(b)	28.	(b)	29.	(b)	30.	(c)