

Roll.No.

25UPAGT1001

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Com. PA - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - I

25UPAGT1001 - Quantitative Aptitude for Professional Accounting

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **TWENTY** questions ($20 \times 2 = 40$ Marks)

- Two numbers are in the ratio 5 : 6. If 5 is subtracted from each number, the ratio becomes 4 : 5. The numbers are:
a) 15, 20 b) 5, 10 c) 10, 15 d) 25, 30
- $21\frac{1}{2} \times 43\frac{3}{4}$ is equal to
(a) A fraction (b) A positive integer
(c) A negative integer (d) none of these
- If $\log(a/b) + \log(b/a) = \log(a+b)$, then which of the following is true?
a) $a + b = 1$ b) $a + b = 0$
c) $a = b$ d) $a - b = 1$
- The value of $4/(32)^{1/5}$ is
a) 8 (b) 2 (c) 4 (d) none of these
- If $x/2 = y/3 = z/7$, then find the value of $(2x - 5y + 4z) / 2y$.
a) $6/23$ b) $23/6$ c) $3/2$ d) $17/6$
- The n th element of sequence 5, 7, 9, 11 . . . is
(a) $3n + 2$ (b) $n + 4$ (c) $2n + 3$ (d) none of these
- Third term of an AP is 8 and the 17^{th} term is $51/2$. The 23^{rd} term is
(a) 37 (b) 33 (c) 41 (d) 31
- If a, b, c are in GP, $ap = bq = cr$ then $1/p, 1/q, 1/r$ are in
(a) AP (b) GP (c) HP (d) none of these
- $A \cup B$ has how many elements?
a) 8 b) 7 c) 9 d) 11
- Let $A: \{ O, R, A, N, G, E \}$ and $B = \{ 0, 1, 2, 3, 4, 5 \}$. The above two sets are:
a) Equal b) Equivalent
c) Disjoint d) Both (b) and (c) above
- 7, 12, 19, 28, 39,?
a) 52 b) 50 c) 51 d) 48

Contd...

12. Fish, Starfish, Crocodile, Hen
a) Fish b) Hen c) Starfish d) Crocodile
13. ACE, BDF, CEG, ?
a) DFE b) DEF c) DFH d) DEH
14. A1, C3, F6, J10, O15, ?
a) U21 b) V21 c) T20 d) U20
15. HONEY is coded as JQPGA, which word is code as VCTIGVU?
a) CARPETS b) TRAPETS c) TARGETS d) UMBRELU
16. The graphical representation of a cumulative frequency distribution is called
(a) histogram (b) ogive
(c) both (a) and (b) (d) none of the above
17. Ogive is a
(a) line diagram (b) bar diagram
(c) both (a) and (b) (d) None of these
18. Divided bar chart is good for:
(a) Comparing various components of a variable
(b) Relating the different components to the variable
(c) Both (a) and (b)
(d) Neither (a) nor (b)
19. A portion of the population which is examined with a view to estimating the characteristics of the population are known as:
(a) Sample (b) Universe
(c) Population (d) Statistic
20. Sampling error increases with an increase in the size of the sample.
(a) The above statement is true.
(b) The above statement is not true.
(c) Sampling error do not depends upon the sample size
(d) None of the above
21. Find the median of the following numbers: 5, 8, 6, 9, 11, 4.
(a) 6 (b) 7 (c) 8 (d) None of the above
22. The mode of the following observations is: 4, 3, 2, 5, 3, 4, 5, 3, 7, 3, 2, 6
(a) 2 (b) 3 (c) 4 (d) 6
23. _____ is equal to the value corresponding to cumulative frequency $\frac{3(N + 1)}{4}$ from simple frequency distribution.
(a) Median (b) 1st quartile
(c) 3rd quartile (d) 1st decile
24. Which measure of dispersion is most useful?
(a) Standard deviation (b) Quartile deviation
(c) Mean deviation (d) Range

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25. Find the arithmetic mean of the numbers 3, 5, 7, 9, 47.
 (a) 24 (b) 25 (c) 27 (d) 31

Section C

Answer any **FOUR** questions ($4 \times 5 = 20$ Marks)

26. A firm is engaged in breeding pigs. The pigs are fed on various products grown on the farm. In view of the need to ensure certain nutrient constituents, it is necessary to buy two additional products, say A and B. The contents of the various products (per unit) in nutrient constituent (eg., vitamins, proteins, etc.) is given in the following table:

Nutrient	Nutrient content in product		Minimum amount of Nutrient
	A	B	
M1	36	6	108
M2	3	12	36

The last column of the above table gives the minimum amounts of nutrients constituents M1, and M2 which must be given to the pigs. Express the above situation in terms of linear inequalities.

27. Determine the following terms with suitable example.
 a) Sets
 b) Relations
 c) Functions
28. (a) If GREEN is called BLACK, BLACK is called BLUE, BLUE is called RED, RED is called WHITE and WHITE is called ORANGE, then what is the colour of BLOOD?
 (b) In a certain code RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code?
 (c) A girl is going towards West, and then she turned left, then turned 90 degree in clockwise direction. In which direction is she going now?
29. Apply different types of Sampling Method.
30. Ascertain the mean deviation about mean for the following distribution.

Variable:	5	10	15	20	25	30
Frequency:	3	4	6	5	3	2

31. The sum of the present age of the three persons is 150 years. Ten years ago, their ages were in the ratio of 7:8:9. Compute their present age.
