G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.
(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.A., B.COM., B.B.A., B.Sc. AND B.C.A.

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
VI	PART - IV	OPEN ELECTIVE	U21MA6OE	QUANTITATIVE APTITUDE

Date & Session : 07.05.2025 / FN   Time : 3 hours   Maximum: 100 Marks

Q. No.	SECTION – A (10X 10= 100 Marks) Answer any Ten Questions.
1.	Solve the following questions: (a) Mansi purchased a car for Rs. 2,50,000 and sold it for Rs. 3,48,000. What is the percent profit she made on the car? (b) If C.P is Rs. 2516 and S.P is Rs. 2272. Find the percentage loss. (c) A gold bracelet is sold for Rs. 14500 at a loss of 20%. What is the cost price of the gold bracelet ? (d) Find the odd man out: 3,5,7,12,17,19.
2.	Evaluate the following: (i) 70% of 320 + 45% of 240 (ii) $16\frac{2}{3}$% of 600 gm - $33\frac{1}{3}$% of 180 gm. (iii) What percent of 7 is 84 ? (iv) Saroj invests Rs. 72318, which is 17% of her annual income, in mutual funds, what is her monthly income ?
3.	Evaluate the following: (i) 2 is what percent of 50? (ii) $\frac{1}{2}$ is what percent of $\frac{1}{3}$? (iii) What percent is 1 minute 10 seconds of $\frac{1}{2}$ an hour ? (iv) What percent of 6.5 litres is 130 ml ?
4.	Find the mean, median and mode for the following data. 6, 8, 2, 5, 9, 5, 6, 5, 2, 3.
5.	(i) Find the A.M of n natural numbers (ii) Calculate the mean for the given data <table><tr><td>x_i</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr><tr><td>f_i</td><td>2</td><td>1</td><td>3</td><td>3</td><td>1</td></tr></table>
6.	(i) The mean and standard deviation for 15 data's are respectively 10, 5 as found. From the data one is misprint as 8 instead of 23. Find the correct mean. (ii) Find the range and coefficient of range for the following data: 25,67,48,53,18,39,44.

7.	If one item belong to the class of the second and the second belongs to the class of third. Represent it in Venn Diagram as Seconds, Minutes and Hours.
8.	Suppose you are given a group of 3 items. Then if the items evidently belong to three different groups. Represent the situation in Venn diagram as Doctors, Engineers and Lawyers.
9.	If two items belong to the class of the 3rd such that some items of each of these two groups are common in relationship. Represent the situation as Males, Females and Brothers in Venn diagram.
10.	Decode the following with appropriate reasons. (i) If in a certain language, MADRAS is coded as NBESBT, how is BOMBAY coded in that code? (ii) In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code? (iii) In a certain code, TRIPPLE is written as SQHOOKD. How is DISPOSE written in that code?
11.	Decode the following questions and give reasons: (i) If DELHI is coded as Y3541 and CALCUTTA as 82589662, how can CALICUT be coded ? (ii) If ROSE is coded as 6021, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH ?
12.	Decode the following with appropriate reasons. (i) If GIVE is coded as 5137 and BAT is coded as 924, how is GATE being coded ? (ii) In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code ?

13.	Read the following information and answer the question based on it.
	In a School, there were five teachers A & B were teaching Hindi and English, C & D were teaching English and Geography, D & A were teaching Mathematics and Hindi, E & B were teaching History and French.
	1. Who among the teachers was teaching maximum number of subjects ?
	   a) A b) B c) C d) D e) E
	2. Which of the following pass was teaching both Geography and Hindi ?
	   a) A & B b) B & C c) C & A d) D & B e) None
	3. More than two teachers were teachers teaching which subjects?
	   a) History b) Hindi c) French d) Geography e)Mathematics
	4. D, B and A were teaching which of the following subjects ?
	   a) English only b) Hindi and English c) Hindi only
	   d) English and Geography e) Maths and Hindi

14.	Read the following information carefully and answer the questions based on it. (i) Five friends P, Q, R, S & T travelled to five different cities of Chennai, Calcutta, Delhi, Bangalore, Hyderabad by five different modes for transport of bus, train, aeroplane, car and boat from Mumbai. (ii) The person who travelled to Delhi did not travel by boat.

(iii) R went to Bangalore by car and Q went to Calcutta by Aeroplane

(iv) S travelled by boat where as T travelled by train.
 (v) Mumbai is not connected by bus to Delhi and Chennai.
1. Which of the following combinations of persons and mode is incorrect ?
   a) P-Bus   b) Q- Aeroplane   c) R- Car   d) S-Boat   e) T-Aeroplane
2. Which of the following combinations is true for S?
   a) Delhi – Bus   b) Chennai – Bus   c) Chennai – Boat
   d) Data inadequate   e) None of these
3. Which of the following combination of place and mode is not correct ?
   a) Delhi – Bus   b) Calcutta – Aeroplane c) Bangalore – Car
   d) Chennai – Boat   e) Hyderabad – Bus
4. The person travelling to Delhi went by which of the following modes ?
   a) Bus   b) Train   c) Aeroplane   d) Car   e) Boat
5. Who among the following travelled to Delhi?
   a) R   b) S   c) T   d) Data inadequate   e) None

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15. Read the following information carefully and answer the questions that follows:
There are six cities A, B, C, D, E and F.
   A is not a hill station.
   B and E are not historical places.
   D is not an Industrial city.
   A and D are not historical cities.
   A and B are not alike.
1. Which two cities are industrial centres?
   a) A & B   b) E & F   c) C & D   d) B & F   e) A & D
2. Which two cities are historical places?
   a) A & C   b) D & F   c) C & F   d) B & E   e) A & D
3. Which two cities are hill station?
   a) A & B   b) C & A   c) B & D   d) A & F   e) none
4. Which city is a hill station and Industrial centre but not a
   historical place ?
   a) E   b) F   c) A   d) B   e) C
5. Which two cities are neither historical places nor industrial
   centres ?
   a) A & B   b) D & E   c) F & C   d) B & D   e) None