

D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
SEMESTER EXAMINATIONS

NOVEMBER - 201815NMA3A

NON MAJOR ELECTIVE – I: FUNCTIONAL MATHEMATICS

Time: 2 Hrs Max.Marks: 50

SECTION-A (10 x 2 =20)

Answer ALL the questions.

1. *Define ratio.*
2. *Find the mean proportional between 234 & 104.*
3. *Evaluate 28% of 450+ 45% of 280.*
4. *2 is what percent of 50% ?*
5. *When a commodity is sold for Rs. 34.80, there is a loss of 25% what is the cost price of the commodity?*
6. *Find selling price when cost price is Rs 56.25, Gain is 20%.*
7. *Find the compound interest on Rs 7500 at 4% per annum for 2 years, compound annually.*
8. *A sum of Rs 800 amounts to Rs.920 in 3 years at simple interest. If the simple interest is increased by 3% it would amount to how much?*
9. *Difference between a number & its $\frac{3}{5}$ th is 50 what is the number?*
10. *The average of 4 consecutive even numbers is 27, find the largest of these number?*

SECTION-B (3 x 10 =30)

Answer any THREE of the following questions.

11. *Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev?*
12. *If Rs 500 amounts to Rs 583.20 in 2 years compound annually. Find the rate of interest per annum.*
13. *A book was sold for Rs 27.50 with a profit of 10%. If it were sold for Rs 25.75 then what would have been the percentage of profit or loss.*
14. *The population of a town is 1,76,400.it increases at the rate of 5% per annum.what will be its population two years hence? What was it 2 years ago?*
15. *A bag contains 50p, 25p, and 10p coins in the ratio 5:9:4 amounting to Rs 206 find the number of coins of each type.*

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