Class: VIII
Time : 1 hr 30 min .

Subject : Mathematics
M. Marks : 40

General Instructions :
Question No 1 to 3 carry 1 mark each, Q. no 4 to Q .no 6 carry 2 marks each, Q. No 7 to
Q. No 11 carry 3 marks each and Q. no 12 to 15 carry 4 marks each .

Q1. $72 \%$ of 25 students are good in science. How many percent are not good in science.
Q2. Find the time period and rate of interest, if a sum taken for a year at $8 \%$ p.a. is compounded half yearly.

Q3. Multiply: $\quad 3 \mathrm{Y}(2 \mathrm{Y}-7)$
Q4 Simplify and evaluate for $x=-2,3 x(2 x-7)-3(x-4)-63$
Q5. Find the selling price of a profit of $5 \%$ is made on a cycle of Rs. 700 with Rs. 50 as overhead charges.

Q6. Factories: $\quad 15 x y-6 x+5 y-2$
Q7. Factories: $\quad 25 x^{2}-4 y^{2}+28 y z-49 z^{2}$
Q8. Using suitable identity find the product: $95 \times 103$
Q9. If $4 x=51^{2}-49^{2}$, find the value of $x$.
Q10 An item is sold at Rs. 660 after getting a profit of $10 \%$. Find the marked price.
Q11. Find the amount on Rs. 8000 for 3 years at $5 \%$ p.a. compounded annually.
Q12. Two items were bought for Rs. 8000 each. A shopkeeper sole one at a profit of $10 \%$ and other at a loss of $8 \%$. Find loss or profit percent on whole transaction.

Q13. (a) Show that: $(3 x+7)^{2}-84 x=(3 x-7)^{2}$
(b) Simplify: $\quad(2 x+5)^{2}-(2 x-5)^{2}$

Q14. Radha borrows Rs. 12,500 at $12 \%$ p.a. for 3 years at simple interest and Sunita borrow the same amount for the same time period at $10 \%$ p.a. compounded annually. Who pay less interest ?
Q15. (a) Divide: $4 x y\left(y^{2}+6 y-16\right) / 2 x(y+8)$
(b) Find the error and correct it - $x(3 x+2)=3 x^{2}+2$

