ATOMIC ENERGY CENTRAL SCHOOL , NARORA

PERIODIC - TEST- 3

Academic year 2018 -2019

Class : VIII	Subject : Mathematics
Time : 1hr 30 min.	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 : 3Y (2Y – 7)	
Q4 Simplify and evaluate for x = - 2, $3x(2x-7) - 3(x-4) - 63$	
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 : 15xy – 6x + 5y – 2	
Q7. Factories : $25 x^2 - 4 y^2 + 28 y z - 49 z^2$	
Q8. Using suitable identity find the product : 95 X 103	
Q9. If $4x = 51^2 - 49^2$, 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	e transaction.
Q13. (a) Show that : $(3x + 7)^2 - 84 x = (3x - 7)^2$	
(b) Simplify: $(2x+5)^2 - (2x-5)^2$	
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: $4xy(y^2 + 6y - 16)/2x(y + 8)$	

(b) Find the error and correct it - x (3x + 2) = $3x^2 + 2$