

# ATOMIC ENERGY CENTRAL SCHOOL NO 3 RAWATBHATA

## Periodic Test II (2018-19)

CLASS – VIII

MM-40

SUB- MATHEMATICS

TIME –  $1\frac{1}{2}$  Hrs

### Instructions –

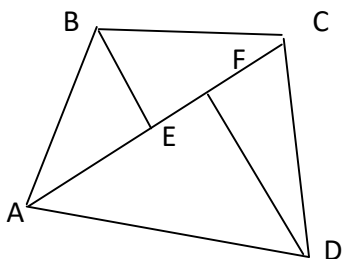
- All questions are compulsory.
- The question paper consists of 16 questions divided into 4 sections (A,B,C & D).
- Section A comprises of 4 questions of 1 mark each.
- Section B comprises of 4 questions of 2 mark each.
- Section C comprises of 4 questions of 3 mark each.
- Section D comprises of 4 questions of 4 mark each.

### SECTION A

- Q1. Convert 5:4 into percentage.  
Q2. Multiply  $x^2yz$  and  $xy$ .  
Q3. Find the Surface area of a cube. whose side is 30 cm.  
Q4. Factorise:  $-xy-x$

### SECTION B

- Q5. A table marked for Rs 15000 is available for RS.14400. Find the discount given and discount percent.  
Q6. Find the area of the quadrilateral. If  $AC = 6$  cm,  $BE = 3$  cm and  $DF = 5$  cm.



- Q7 . Can a polyhedron have 10 faces 20 edges and 15 vertices ?  
Q8USE identity to evaluate:  $78 \times 82$

### SECTION C

- Q9 I purchased a hair- dryer for Rs. 5400 including 8% VAT .Find the price before VAT was added .  
Q10 Divide :  $y^2 + 18y + 65$  by  $(y+5)$  .  
Q11 Draw1 figure each for 1-D, 2-D AND 3-D .  
Q12 A milk tank is in the form of cylinder whose radius is 1.5 m and length is 7m. Find the quantity of milk ( in litres) that can be stored in the tank .

### SECTION D

- Q13 A scooter was bought for Rs. 42000. Its value depreciated at the rate of 8% per annum . Find its value after one year and also the depreciation thereof .  
Q14 Subtract the sum of  $3a-4b+c$  and  $1-2a+b$  from the sum of  $3b+c+b$  and  $a-2b+3$  .  
Q15A flooring tile has the shape of a parallelogram whose base is 24 cm and the corresponding height is 10 cm . How many such tiles are required to cover a floor of area 1080 square metre .  
Q16. Using identities , find:  
(i) the value of  $p$  for  $21^2 - 19^2 = 10p$   
(ii)  $(3x+2y)^2 + (3x-2y)^2$