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## FORMATIVE ASSESSMENT-III (2016-17)

CLASS-VIII

SUBJECT-MATHS

Maximum Marks : 40

TIME : 1 1/2 Hours

### PART – I ( 5 X 1 = 5 )

- The value of  $3^4$  is  
a) 9                      b) 81                      c) 27                      d) 243
- The coefficient of term  $6xy$  in algebraic expression  $x^2 - 5x^2y + 6xy - 4y^3$   
a) 1                      b) -5                      c) 6                      d) -4
- The perimeter of a square of side 6.5 cm is  
a) 13 cm                      b) 26 cm                      c) 10 cm                      d) 6.5 cm
- The volume of a right circular cylinder is  
a)  $\frac{1}{3} \pi r l$                       b)  $\pi r l$                       c)  $2\pi r h$                       d)  $\pi r^2 h$
- The surface area of a cube of side M is  
a)  $M^2$                       b)  $4M^2$                       c)  $6M^2$                       d)  $5M^2$

### PART – II ( 5 X 2 = 10 )

- The diagonals of a Rhombus are 7.5 cm and 12 cm. Find the area.
- Find the value of  $81^2$  using identity.
- Find the product of  $(x + 5)$  and  $(x + 2)$
- Express in usual form  $0.0302 \times 10^5$
- Express in standard form 7354.8

### PART – III ( 5 X 3 = 15 )

- Evaluate  $(1^0 + 2^0 + 3^0 + 4^0 + 5^0)$
- Simplify  $(x + y)(2x + y) + (x + 2y)(x - y)$
- A closed cylindrical tank of radius 7 m and height 3 m is made from a sheet of metal. How many sheet of metal requires ?
- A cuboid is of dimension 60 cm x 54 cm x 30 cm. How many small cubes with side 6 cm can be placed in given cuboid ?
- Find the value of m for which  $3^2 \times 3^m = 729$

### PART – IV ( 5 X 2 = 10 )

- Simplify  $(2x + 5)^2 - (2x - 5)^2$
- A road roller takes 750 revolutions to level a road Find the area of road if the diameter is 84 cm and length 1 m

