

**J.K.G. International school , Vijay Nagar**

**Practice Paper**

**Summative Assessment ( 2016 – 17)**

**Subject: Maths**

**Time : 3 Hours**

**Class - VIII**

**M.M.90**

**All questions are compulsory**

**SECTION – A**

**(1X4)**

Q.1 Express 0.000035 in standard form .

Q.2 If 31Z5 is a multiple of 3 , Where Z is a digit , What might be the value of Z .

Q.3 Solve :  $(m \times 5)^n + 6$  If  $m = 7$

Q.4 In a row of girls Kanu sits to the left of Urja at the fifteen position from the left while the position of Urja is fourth from right . There are three girls between Kanu and Urja . If Manvi sit immediately next to the left of Kanu what is the position of manvi from the right .

**SECTION – B**

**(2X6)**

Q.5 Find the side of cube whose surface area is  $600 \text{ cm}^2$  ?

Q.6 A solid shape has 10 vertices and 15 edges . Find the number of faces .

Q.7 Find the value of  $(3^0 + 4^{-1}) \times 2^2$

Q.8 Simplify :  $12 a^8 b^8 \div (-6 a^6 b^4)$

Q.9 Given  $x \propto y$  and when  $X = 15$  ,  $y = 3$  , Find y when  $X = 35$

Q.10 Find the volume of cylinder whose radius is 35m and height is 7m .

**SECTION - C**

**(3X8)**

Q.11 If  $6^{2x+1} \div 36 = 216$ , Find the value of X .

Q.12 (i) can a polyhedron have 10 faces , 20 edges and 15 vertices ?

(ii) If  $A \times B = 30$  ,  $C \times D = 32$  ,  $B \times D = 48$  and  $B \times C = 24$  < Find the value of A , B, c , D

Q.13 Find the factors of  $Z^2 - 4Z - 12$

Q.14 If 30 stamps of equal value of cost Rs. 150 . How many stamps of the same value can be bought for Rs. 200.

Q.15 the dimension of closed cuboid are in the ratio 5 : 4 : 3 . If the total surface area is  $0.94\text{m}^2$  , Find the dimensions of cuboid .

Q.16 Plot the points P ( 1, 1 ) , Q ( -1 , -1 ) , R ( 2 , 2 ) and S ( -2 , -2 ) on the graph paper .

Q.17 (i) Find the value of  $(-4)^{-3}$

(ii) Factorise :  $7a^2 + 14a$

Q.18 When a die is thrown , What is the probability of getting (i) a prime number (ii) a number not greater than 5 .

#### SECTION – D

(4x10)

Q.19 The diagonal of a quadrilateral shaped field is 24 m and the perpendiculars dropped on it from the remaining opposite vertices are 8m and 13 m . find the area of field .

Q.20 The weekly wages ( in Rs. ) of 30 w0rkers in a factory are .

830 , 835 , 890 , 810 , 835 , 836 , 869 , 845 , 898 , 890 , 820 , 860 , 832 , 833 , 855 ,  
845 , 804 , 808 , 812 , 840 , 885 , 835 , 835 , 836 , 878 , 840 , 868 , 890 , 806 , 840

Using tally marks make a frequency table with intervals as 800 – 810 , 810 – 820 and so on .

Q.21 Find the value of X :

$$x^{-4} \times x^5 = x^{3x}$$

Q.22 A closed cylindrical tank of radius 7m and height 3m is made from sheet of metal . How much sheet is required ?

Q.23 A farmer has enough food to feed 20 animals in his cattle for 6 days . How long would the food last if there were 10 more animals in his cattle ?

Q. 24 Simplify :

$$25 \times t^{-4} \quad (t = 0)$$

$$5^{-3} \times 10 \times t^{-8}$$

Q.25 Divide :  $(y^2 + 7y + 10) \div (y + 5)$

Q.26 On a particular day , the sales of different items of a bakers shop are given below

Ordinary bread - 320

Fruit bread - 80

Cakes and pastries - 160

Biscuits – 120

Others - 40

Total - 720

Draw the pie chart for this data

Q.27 The following table gives the quantity of petrol and its cost

|                     |     |     |      |      |
|---------------------|-----|-----|------|------|
| Petrol ( in litre ) | 10  | 15  | 20   | 25   |
| Cost ( in Rs. )     | 500 | 750 | 1000 | 1250 |

plot a graph to show the data .

Q.28 All of us know that the most of the articles we purchase from the market e.g. T.V. , Music system , juice are packed in Tins , Cartons boxes etc. Most of these packing boxes are cuboid or cylinders . It is obvious for a manufacturer to find out well in advance that how much cardboard or tin sheets or paper is required for packing .

(i) Find the curved surface area of the cylinder whose radius 7 cm and height 10 cm .

(ii) how many vertices a cylinder has ?

(iii) What is the ratio of the surfaces area of the base of right circular cylinder to that of its top ?

#### **SECTION –E**

**(10)**

Q29 Tourist of all age groups from across the globe love to visit India. Comment.

Q30 Give a short note on 'Atithidevo bhavah'.

Q31 Prepare a histogram on the percentage distribution of foreign tourists arrival in India according to the age groups during 1996-2012 for class size 10.