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 x 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 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 : $12 a^8b^8 \div (- 6 a^6b^4)$

Q.9 Given $x \alpha y$ 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 X B = 30 , C X D = 32 , BX D = 48 and B X 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 $0.94m^2$, 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 . findthe 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 :

$(7|3)^{-4} \quad X \quad (7|3)^{5} \quad = \quad (7|3)^{3x}$

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 :

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

$5^{-3} \quad x \quad 10 \quad x\, t^{-8}$

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.