CADET COLLEGE PETARO

ENTRY TEST 2014 For Admission to **CLASS-VII**

MATHEMATICS

Time 1 Hour | Max Marks: 100 | Passing Marks: 50

SECTION – I (MARKS-70)

QNo.1: Write TRUE or FALSE for each of the following statements. Each part carries 2 marks. [30]

i. $y = 4$ is a solution of $3y - 2 = 10$

ii. There is no unit for ratio. (_____)

iii. $-a \times 2(-b)^2 = 2ab^2$ (_____)

iv. The sum of all angles on a point is 360° (_____)

v. If we subtract $x^2 - 20xb - 3y^2$ from $2x^2 - 15xb - 9y^2$, we get $x^2 - 5xb - 12y^2$ (_____)

vi. The distance between the centre and any point on the circle is called diameter. (_____)

vii. $(-2) - (-3) = -5$ (_____)

viii. 6% discount on Rs.6000 is 360 rupees. (_____)

ix. $\frac{3}{2}, \frac{4}{3}, \frac{5}{4}$ etc. are proper fractions. (_____)

x. $7\frac{1}{2}\% = \frac{3}{40}$ (_____)

xi. $\frac{1}{100}$ is read as **"1 Percent"** (_____)

xii. In $2 - x$, the co-efficient of x is 2 (_____)

xiii. 25% of 150 < 20% of 140**.** (_____)

xiv. $2.25\% = 0.0225$ (_____)

xv. Product of x^2 and x^4 is x^8 (_____)

QNo.2: FILL IN THE BLANKS. Each part carries 2 marks. **[40]**

i. A line segment joining any two points of a circle is called _____.

ii. The degree of $x^2y + xy^2$ is _____.

iii. Nazim has Rs.120. He spends 25% of the amount. The remaining amount he has _____.

iv. **- 3** _____ **- 4** (Fill in the blank with < or >)

v. $\frac{1}{3}, \frac{1}{5}, \frac{1}{7}$ are in _____ order.

vi. If $\frac{x}{3} = \frac{8}{12}, then\ x =$ _____.

vii. Portion of circle between two radial segments is called _____.

viii. A circular diagram in which values are represented by sectors is called _____.

ix. The simple form of the ratio $1\frac{3}{4} : \frac{7}{8}$ is _____.

x. Triangle is a closed figure which has three angles and three _____.

xi. The solution of $7y - 2 = 47$ is _____.

xii. **20%** of 180 is _____-

xiii. $13 - 8 = 5$ is a _____ sentence.

xiv. One third of $10\frac{1}{2}$ is _____.

xv. The ratio between **25cm** and **1m** is _____.

xvi. The numbers left of zero on a number line are _____ number.

xvii. Zakat on 21000 rupees is _____rupees.

xviii. $Average = \frac{\text{.....}}{Number\ of\ Quantities}$.

xix. The sum of x and **6** is **14** then x =_____.

xx. $\frac{3}{5} + \frac{4}{5} \times \frac{25}{4} =$ _____ (Simplify)

SECTION - II - MARKS-30

Note: ***Attempt any two questions from this section. Each question carries 15 marks.***

QNo.3

a. A gentleman paid Rs.1675.50 as Zakat. Find the amount on which zakat was paid. **[05]**

b. A room is 8.5*m* long, 6.5*m* wide and 5*m* high. Find the area of its four walls. Also find the cost of white wash of four walls, if the cost per square meter white wash is Rs.20. **[10]**

QNo.4

a. Solve $\mathbf{5(2x-1)=10(3x+2)}$ **[05]**

b. A school bag is purchased for Rs.180 and is sold out for Rs.225. Find the loss or profit percent. **[10]**

QNo.5

a. Subtract $\mathbf{2ab-5b^2-2a^2}$ from $\mathbf{4a^2-6b^2+2ab}$ **[05]**

b. Draw an angle of $\mathbf{90^\circ}$ and bisect it. Use the compass and ruler only. **[10]**
(*Don't write steps of construction*)

(THE END)