MATHEMATICS

General Instruction:

30°

12

±4

Sin 60o = -----

(b)

(b)

(b)

(ii)

(iii)

(iv)

(v)

(vi)

(vii)

(viii)

(ix)

(x)

(xi)

(xii)

(xiii)

(a)

(a)

2011

non of them.

Time: 30 minutes Max. Marks: 20

> SECTION "A" (COMPULSORY) . (MULTIPLE CHOICE QUESTIONS)

Instruction: This paper of Mathematics (Class x-New Model)

consists of two separate question papers, the first paper (Section "A") consists of M.C.Q's. This paper of 30 minutes duration will be given to you first of all and collected back as

soon the time is over. Then you will be given the next paper of 2 1/2 Hours consisting of short-Answer Questions (Section "B") and detailed-Answer Questions (Section "C")

This section consists of 20 Multiple Choice Section A: Questions (M.C.Q's) and all are to be answered. This section consists of 15 short answer questions out of which 10 are to be answered.

This section consists of 5 detailed answer quest-Section C: ions out of which 3 questions are to be answered. SECTION 'A' MULTIPLE CHOICE QUESTION (MCQ's) Choose the correct answer for each from the

given options: (20)(i) In a right angled triangle, the side opposite to the right angle is -----. Perpendicular (a) (b) Hypotenuse

(c) Diagonal (d) Base If S.D. of a series is 4, its variance is ------2 (b) 20 (c) 36 (d) 1 + tan 45° = Sec2 -----

(c) 60° (d)

(c) 28 (d)

 $\{\phi\}$

(d)

1 (c) (a) **0 /** (b) (d) If $\sqrt{x-2} = -4$ then the solution set of x = -----.

90°

24

The mean proportion of 14 and 56 is ----

18

{0, 1, 2, 3,} is the set of ------(a) Prime number (b) Even number Whole number (d) Odd number

(c)

If $\log_4 x = -3/2$, x = -----. (a) 1/8 (b) 8 (c) 1/6 (d) 1/9 $[-1(-1)^5]2 = ----$ (a) -1 (b) $1 \checkmark$ (c) 0 (d) 2

x4 + 64 can be made a perfect square by adding -----. ایخ آپ سے محبت کرنے والا رقبوں سے محفوظ رہتا ہے 58 4x2 (b) $8x^2$ (c) $2x^2$ (d) $16x^2$

1/2 (b) $\sqrt{3}/2$ (c) $1/\sqrt{3}$ (d) $1/\sqrt{2}$ (a) If $A = \begin{bmatrix} 1 & 2 \\ 3 & P \end{bmatrix}$ is a singular matrix, find the value of $P = \frac{1}{3}$

(a) 5 (b) $\underline{6} \checkmark$ (c) 1 (d) -1 The median of [0, 2, 4, 6, 8, 9] is -----(a) 4 (b) 6 (c) 8 (d) 5

(xiv) The angle inscribed in a major arc is alan ----- angle.

(a) Acute angle (b) Right angle (c) Obtuse angle (d) Adjacent angle (xv) $\frac{a}{\sqrt{a}} = ----$ (a) a (b) $\frac{1}{\sqrt{a}}$ (c) $\sqrt{a} \checkmark$ (d) $a^2 \checkmark$

(xvi) The degree of polynomial $x^2 + xy^2 + y$ is -----. (a) 2 (b) $\underline{3} \checkmark$ (c) 4 (d) 1

(xvii) The characteristics of 0.00234 is -----(a) 2 (b) 2 (c) 3 (d) 3 (xviii) (x - 6) (x - 4) = -----.

(a) $x^2 + 10x - 24$ (b) $x^2 - 10x - 24$ (c) $x^2 + 10x + 24$ (d) $x^2 - 10x + 24$ (xix) The line touching at a point of a circle is called -----

(a) Diameter (b) Chord (c) Radius (d) Tangent (xx) If the sum of 10 observations is 125, its mean is ------(a) 5 (b) 50 (c) 12.5 (d) 75