

SUMMATIVE ASSESSMENT - I (2014-15)

MATHEMATICS

Class - X (Set 'A')

Maximum Marks: 90

No. of Printed Sides: 03

Roll No.:

Time : 3hrs.
No. of Questions: 31
Name:

General Instructions:

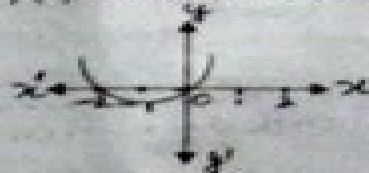
- All questions are compulsory.
- The question paper consists of 31 questions divided into four sections A, B, C and D. Section-A comprises of 4 questions of 1 mark each; Section-B comprises of 5 questions of 2 marks each; Section-C comprises of 10 questions of 3 marks each and Section-D comprises of 11 questions of 4 marks each.
- Use of calculator is not permitted.

SECTION: 'A'

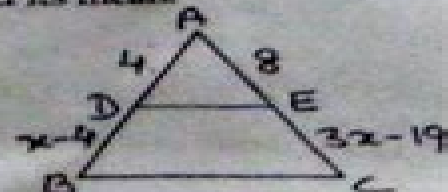
- If $x = 3\sec^2 \theta - 1$ and $y = 3\tan^2 \theta - 2$ then find $x - y$.
- If $\triangle ABC \sim \triangle DEF$, and $BC = 3\text{cm}$, $EF = 4\text{cm}$, $\text{ar}(\triangle ABC) = 54\text{cm}^2$, then find $\text{ar}(\triangle DEF)$.
- The mean monthly salary of 10 members of a group is ₹ 1445. If one more member whose monthly salary is ₹ 1500 joins the group, then find the mean monthly salary (in ₹) of 11 members of the group.
- If $\text{LCM}(26, 169) = 338$, then find the HCF (26, 169).

SECTION - B

- If one zero of the quadratic polynomial $f(x) = 4x^2 - 8kx - 9$ is negative of the other, then find the value of k .
- Find the zeros of the polynomial $p(x)$, as shown in the graph and hence find the polynomial.



- Without actually performing the long division, state whether the following rational numbers will have a terminating decimal expansion or a non-terminating repeating decimal expansion.
(A) $\frac{169}{2^3 \times 5^3 \times 13^2}$ (B) $\frac{66}{180}$
- Find the x -coordinate of the point which lies on the line represented by $5x - y - 7 = 0$ and whose y -coordinate is 13.
- If the median and mode of a data are 52 and 52.4 respectively, then find its mean.
- In the given figure, if $DE \parallel BC$ then find the value of x .



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