

SUMMATIVE ASSESSMENT-1

Class –X

DURATION: 3- 3 ½ hrs

MATHEMATICS

MAX MARKS:90

GENERAL INSTRUCTIONS:

1. All questions are compulsory.
2. The question paper consists of 34 questions divided to four sections A,B,C,D .section A comprises of 8 questions of 1 mark each, section B comprises of 6 questions of 2marks each , section C comprises of 10 questions of 3marks each, section D comprises of 10 questions of 4marks each .
3. section A comprises of multiple choice questions where you have to select one correct option.

SECTION –A

Question numbers 1 to 8 carry 1 mark each

1. If n is a natural number then 4^n will never end with the digit
a)4 b)6 c)0 d)none
2. If a zero of the polynomial x^2+3x+k is 2 then the value of k is
a) 5 b) -5 c) 10 d) -10
3. If $AD=2\text{cm}$, $DE=4\text{cm}$, $BD=3\text{cm}$ and $DE \parallel BC$ Find BC .



- a) 6 b) 8 c) 10 d) 12.5
4. If $2\cos^2\theta = \frac{1}{2}$, $0 < \theta < 90^\circ$ then $\theta =$
a) 30° b) 0° c) 60° d) 90°
5. $9\sec^2 A - 9\tan^2 A =$ -----
a) 0 b) 9 c) 1 d) -9
6. Which of the following is equal to $\sin 67^\circ + \cos 75^\circ$
a) $\cos 23^\circ - \sin 15^\circ$ b) $\cos 23^\circ + \sin 15^\circ$ c) $\cos^2 23^\circ - \sin^2 15^\circ$ d) $\cos 67^\circ - \sin 75^\circ$

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