

MATHEMATICS – I
KEYS**I Choose the correct lative**

1. d
2. d
3. d
4. a
5. c
6. c
7. d
8. a
9. c
10. a

II Fill in the Blanks

11. 1
12. $\frac{(x^2 + 3x + 4)}{4}$
13. 5
14. $2\pi\sqrt{\frac{m}{k}}$
15. $-\frac{1}{8} + \frac{1}{16}\cos 2x$
16. $\frac{1}{s^2 + 4}$
17. $\frac{s}{s^2 - 4}$
18. $\cot^{-1} s$
19. $2te^{-3t}$
20. $\frac{e^{-6t} - e^{2t}}{t}$