

ANSWER KEY FOR
ARYABHATTA INTER-SCHOOL MATHS COMPETITION – 2017

Class – XI

SECTION - A

1. (b)
2. (a)
3. (c)
4. (b)
5. (a)
6. (c)
7. (a)
8. (b)
9. (d)
10. (c)
11. (b)
12. (c)
13. (d)
14. (a)
15. (b)
16. (c)
17. (a)
18. (a)
19. (c)
20. (d)
21. (b)
22. (a)
23. (b)

NOTE: This answer key is created by KoolSmartLearning.com for reference purpose.

- 24. (c)
- 25. (a)
- 26. (d)
- 27. (c)
- 28. (a)
- 29. (a)
- 30. (a)

SECTION - B

- 31. 45°
- 32. $(\sqrt{5} - 1)/2$
- 33. 581
- 34. $\frac{144}{145}$
- 35. 990
- 36. 4
- 37. $n(-1)^{n-1} + (-1)^n$
- 38. 3
- 39. $4x+3y-24=0$
- 40. 4
- 41. (-3,-4)
- 42. $3^n - 2n - 1$
- 43. $\sqrt{\frac{1-y^2}{1-x^2}}$
- 44. 272
- 45. 1
- 46. 19
- 47. $\frac{15}{24}$
- 48. $(-\infty, -1)$
- 49. $\frac{3}{\sqrt{2}}$
- 50. $\frac{2}{\sqrt{3}}$

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SECTION - C

51. 3
52. $\frac{1}{2}$
53. $x-3y+4=0$
54. $\frac{7}{18}$
55. 10
56. $(\frac{-3}{5}, \frac{-4}{5})$
57. 510
58. $4x^2 + 4y^2 - 12x - 19y + 30 = 0$
59. MOHTRE
60. 96

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