

KARNATAKANTSE-STAGE1(2017)
ANSWER KEY & SOLUTIONS
MAT

1. (4)
– and + (By putting options)
 2. (2)
(By putting signs in options)
 3. (3)
 $10n^2 - 10n(n - 4)$
 4. (1)
 $120 (n = 3)$
 5. (2)
(By observation)
 6. (3)
(By observation)
 7. (1)
(Hints: No faces painted = $(n - 2)^3$
 $= (4 - 2)^3 = 8$
At least one face painted = 56 (i.e. $64 - 8 = 56$)
 8. (4)
14 (By observation)
 9. (3)
15 (By observation)
 10. (2)
 $19(9 - 2 + 1)$
 11. (1)
(This is the only set of ODD numbers)
 12. (2)
 $154, 63, 14$ (others: $\frac{1256}{7} 96; \frac{1691}{7} 208; \frac{1558}{7} 252$)
 13. (1) ASDWFZ
EOIRLV (E – V, O – L, I – R) (Opposite Letters)
MYJQBN (M – N, Y – B, J – Q) (Opposite Letters)
KTCXGP (K – P, T – G, C – X) (Opposite Letters)
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14. (3)

35 (-23, -21, -19, -17, -15)

15. (2)

325(0 1+1=1;1 2+2=4;4 3+3=15;15 4+4=64;64 5+5=325)

16. (4)

(By observationSteps)

17. (3)

(By observationRotation)

18. (1)

(4 Age of Pramod = 6 Age of Praveen)

19. (4)

18 : (18 - 1)² : (18 - 1)² (18 - 1)

14 : (4 - 1)² : (4 - 1)² (4 - 1)

20. (2)

66 6 4 400

166 6 4 1000

21. (1)

SAMOHT:SINNZT

S+1=T O-1=N

A-1=Z H+1=I

M+1=N T-1=S

22. (4)

(By Observation)

23. (3)

(By Observation)

24. (2)

(diff. +100, +200, +400, +800, +1600)

25. **Grace**

Ideally no any option is correct only conclusion III follows. But, DSERT Karnataka will give answer as (1)

26. (2)

20 (By putting values in Venn diagram)

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27. (3)
30 (By putting values in Venn diagram)
28. (4)
8 and 7 (only one possible value of S, i. e. $S = 8$ $P = 8$ $R = 7$)
29. (2)
1 3 6 6 2 3 (By equation: $2E + L = 8$
 $2L + P = 5$
 $2A + P = 9$
 $P + B = 7$
 $A = 4$)
30. (1)
(By observation)
31. (4)
(By observation)
32. (4)
33. (2)
Assume three figures as x, y and z
19 $x + 2y = 12$; $2x + y = 9$
 $x + 2z = 20$; $y + 2z = 23$
 $y + x + z = 16$; $x + y + z = 16$
34. (4)
(Row pattern: + 3, -2, +3)
35. (3)
(By Observation)
36. (1)
(By observation & opposite faces rule)
37. (4)
(All surgeons are doctors. Some professors will be doctors. Some professors will be engineers. Engineers & doctors are different professionals).
38. (1)
5 (By drawing Venn diagram and putting the values)
39. (3)
50 (By drawing Venn diagram and putting the values)
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40. (2)

(By observation)

41. (3)

R,O,N

	G-4=C	C-4=Y	X-4=T	R-4=N
X-6=R		T-6=N	O-6=I	I-6=3

42. (1)

A, M (Outer: $D + 3 = G$; $G + 5 = L$; $L + 7 = S$; $S + 9 = B$; $B + 11 = M$; $M + 13 = Z$; $Z + 15 = 0$).

(Inner: $A + 14 = O$; $O + 12 = A$; $A + 10 = K$; $K + 8 = S$; $S + 6 = Y$; $Y + 4 = C$; $C + 2 = E$).

43. (4)

(By observation)

44. (2)

(By drawing diagram)

45. (1)

(sum of even no. — sum of odd no.)

$(26 + 24) - (17 + 11) = 22$, $(28 + 18) - (21 + 19) = 6$

46. (3)

21,171 (3 $2-1=5$)(5 $2+1=11$)

47. (2)

(Common in all circles)

48. (4)

(one dot: Only circle & triangle)

(second dot: Only circle & square)

49. (4)

50. (1)

(By observation)
