



INTSO EDUCATION

APTITUDE TALENT SEARCH OLYMPIAD (ATSO) 2015 - 2016

STAGE - 1

TIME : 60 min.

CLASS : VII

Max. Marks : 50

Instructions:

- ⇒ Fill the OMR sheet completely and carefully.
- ⇒ Each question carries one mark and has only one correct answer. No negative marks
- ⇒ The question paper contains 50 questions to be answered in 60 minutes.

Number Series

1. 13, 17, 25, 37, 53, _____ []
 1) 63 2) 73 3) 83 4) 93
2. 7, 9, 12, 17, 24, _____ []
 1) 29 2) 32 3) 35 4) 40
3. 4, 8, 32, 192, _____ []
 1) 1296 2) 1364 3) 1432 4) 1536
4. 48, 63, 80, 99, _____ []
 1) 101 2) 111 3) 120 4) 130
5. 1, 4, 27, 256, _____ []
 1) 512 2) 3125 3) 4096 4) 7788

Number Analogies

6. 23 : 13 :: 32 : _____ []
 1) 11 2) 12 3) 13 4) 14
7. 196 : 324 :: 441 : _____ []
 1) 529 2) 576 3) 625 4) 676
8. 43 : 41 :: 83 : _____ []
 1) 80 2) 81 3) 78 4) 79
9. 1331 : 1728 :: 2197 : _____ []
 1) 2744 2) 3125 3) 3600 4) 4096
10. 64 : 100 :: 25 : _____ []
 1) 36 2) 49 3) 81 4) 100

Letter series

11. JQ, IR, HS, _____ FU []
 1) TG 2) GT 3) FS 4) IV
12. AD, BF, DI, GM, KR, _____ []
 1) AT 2) PX 3) PR 4) PW
13. GTB, CYV, YDP, _____ QND []
 1) DIV 2) UIJ 3) DDV 4) UVV
14. BEA, DJD, FOI, HTP _____ []
 1) OTY 2) TTY 3) JTO 4) JYY

15. BR, GQ, KO, NL, _____ []
 1) PI 2) PH 3) QI 4) QH

Letter Analogy

16. INTSO : JOUTP :: ATSO : _____ []
 1) PULP 2) KUTP 3) BUTP 4) HULP
17. INTSO : JPWWT : _____ : KIKO []
 1) JGHK 2) JGKH 3) KCKH 4) PVKH
18. TALENT : VDQLYG :: MODERN : _____ []
 1) ORJMCB 2) OQIMCA 3) ORILCA 4) ORIKCZ
19. EAGLE : DYDHZ :: BULLOCK : _____ []
 1) ASIHWJD 2) ASJKLWD 3) ASIGKWD 4) EVMMPEO
20. BAD : BBL : JDFE : _____ []
 1) JHRI 2) JHPX 3) JFTV 4) JHRT

Word Analogy

21. India : Peninsula :: Bermuda : _____ []
 1) Land locked 2) Peninsula 3) Island 4) None
22. Pig : Piglet :: Horse : _____ []
 1) Farrow 2) Pony 3) Lamb 4) Larva
23. Blacksmith : Anvil :: Mason _____ []
 1) Plumline 2) Anvil 3) Needle 4) Knife
24. Muslims : Mosque :: Sikhs : _____ []
 1) Golden temple 2) Gurudwara 3) Jamma Masjid 4) Makka Masjid
25. Ornithology : Birds :: Pedology : _____ []
 1) Pedias 2) Soil 3) Pedestrians 4) Sun

Coding & decoding

26. If KIRAN is coded has KAKI KARA KAN then by using same logic the code for “ SURESH “ is []
 1) KAS KAUR KASH 2) KASU KARE KASH
 3) KASUR KARESH 4) None
27. If RAGHU is coded has TCIJW then how is BED coded []
 1) EHJ 2) EHL 3) DGF 4) EHG
28. If RAVI is coded has AIRV then by using same logic how is BIRD coded []
 1) DRIB 2) IBRD 3) BDIR 4) IDRB
29. If PEN is coded as 35 then how is RAT coded in that language []
 1) 36 2) 37 3) 38 4) 39
30. If KIRAN is coded has PRIZM then how is KUMAR coded in that language []
 1) PFNZI 2) PFKZI 3) PFNSU 4) PFSZI

Equations

31. Sum of two numbers is 15. Two times of the first exceeds by 5 from the three times of the other. Then the numbers will be []

- 1) 6, 9 2) 10, 5 3) 7, 8 4) 9, 6
32. Sum of two numbers is 80. Greater number exceeds by 5 from four times of the smaller. Find the numbers []
 1) 65, 15 2) 64, 16 3) 62, 18 4) 60, 20
33. The difference between the two digit number and the number obtained by interchanging its digits is 54. The difference between the digit is []
 1) 4 2) 6 3) 1 4) Nothing can be said
34. If a number is subtracted from its square we get 272. Find the number []
 1) 24 2) 14 3) 17 4) 22
35. Two third of three - fifth of one - fourth of a number is 24, What is 30 % of that number ? []
 1) 42 2) 72 3) 90 4) 240
36. One half of a two digit number exceeds its one third by 6. What is the sum of the digits of the number ? []
 1) 3 2) 5 3) 7 4) 9

Ratio & Proportion

37. The greatest ratio out of 2 : 3, 5 : 4, 3 : 2 and 4 : 5 is []
 1) 4 : 5 2) 3 : 2 3) 5 : 4 4) 2 : 3
38. The third proportional to 1 and 2 is []
 1) 2 2) 3 3) 4 4) 1
39. The proportion of copper and zinc in the brass is 13 : 7. How much zinc will there be in 100 kg of brass ? []
 1) 20 kg 2) 35 kg 3) 55 kg 4) 14 kg
40. The ratio of two numbers is 2 : 3 and the sum of their cubes is 945. The difference of the numbers is []
 1) 3 2) 4 3) 5 4) 6
41. The ratio of the number of ladies to gents at a party was 1 : 2 but when 2 ladies and 2 gents left, the ratio became 1 : 3. How many people were at the party originally? []
 1) 36 2) 24 3) 12 4) 6

LCM & HCF :

42. LCM of $\frac{1}{3}, \frac{5}{6}, \frac{5}{4}, \frac{10}{7}$ is []
 1) $\frac{10}{7}$ 2) 10 3) $\frac{10}{11}$ 4) $\frac{11}{10}$
43. HCF of $\frac{3}{16}, \frac{5}{12}, \frac{7}{8}$ is : []
 1) $\frac{2}{47}$ 2) $\frac{3}{47}$ 3) $\frac{1}{48}$ 4) $\frac{5}{48}$
44. Find the H.C.F of 12, 16, 18 and 24 []
 1) 1 2) 2 3) 3 4) 4

45. The product of two numbers is 2025 and their HCF is 15 their LCM is : []
1) 2040 2) 2010 3) 135 4) 30375

Percentage, Profit & loss

46. 60% of a number is added to 120 the result is the same number. Find the number. []
1) 300 2) 200 3) 400 4) 500
47. 96 % of the population of a village is 23040. The total population of village is []
1) 32256 2) 24000 3) 24936 4) 25640
48. If the price has fallen by 10 % what percent of its consumption be increased so that the expenditure may be the same as before ? []
1) 11 % 2) 10 % 3) $11\frac{1}{9}$ % 4) $9\frac{1}{11}$ %
49. An article is brought for Rs. 675 and sold for Rs. 900. Find the gain percent ? []
1) $16\frac{2}{3}$ % 2) 30 % 3) $33\frac{1}{3}$ % 4) $33\frac{1}{6}$ %
50. A watch was sold at a loss of 10%. If it was sold for Rs. 140 more, there would have been again of 4 %. What is the cost price ? []
1) Rs. 1000 2) Rs. 1140 3) Rs. 860 4) Rs. 760

