



INTSO EDUCATION

APTITUDE TALENT SEARCH OLYMPIAD (ATSO) 2016 - 2017

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. $\frac{1}{4}$ (one fourth) marks will be deducted for indicating incorrect response of each question.
- ⇒ The question paper contains 50 questions to be answered in 60 minutes.

NUMBER SERIES :

- | | | | | |
|-------------------------|--------|--------|--------|-----|
| 1. 6, 6, 9, 18, 45, ? | | | | [] |
| 1) 115 | 2) 125 | 3) 150 | 4) 135 | |
| 2. 5, 8, 12, 18, ? | | | | [] |
| 1) 24 | 2) 28 | 3) 32 | 4) 34 | |
| 3. 0, 24, 120, 336, ? | | | | [] |
| 1) 738 | 2) 720 | 3) 504 | 4) 520 | |
| 4. 3, 4, 10, 33, 136, ? | | | | [] |
| 1) 575 | 2) 725 | 3) 685 | 4) 595 | |
| 5. 4, 27, 25, 343, ? | | | | [] |
| 1) 64 | 2) 512 | 3) 121 | 4) 81 | |

NUMBER ANALOGY :

- | | | | | |
|-------------------------|---------|--------|--------|-----|
| 6. 121 : 225 :: 289 : ? | | | | [] |
| 1) 361 | 2) 441 | 3) 484 | 4) 576 | |
| 7. 31 : 29 :: 67 : ? | | | | [] |
| 1) 63 | 2) 61 | 3) 58 | 4) 57 | |
| 8. 216 : 343 :: 512 : ? | | | | [] |
| 1) 1331 | 2) 1728 | 3) 960 | 4) 729 | |
| 9. 324 : 400 :: 484 : ? | | | | [] |
| 1) 576 | 2) 524 | 3) 625 | 4) 676 | |
| 10. 24 : 32 :: 31 : ? | | | | [] |
| 1) 32 | 2) 33 | 3) 34 | 4) 35 | |

LETTER SERIES :

- | | | | | |
|---------------------------|--------|--------|--------|-----|
| 11. WE, UG, SI, QK, ? | | | | [] |
| 1) OQ | 2) SM | 3) OM | 4) ON | |
| 12. FR, GQ, IO, LL, ? | | | | [] |
| 1) QI | 2) QG | 3) PR | 4) PH | |
| 13. SUN, PRK, MOH, JLE, ? | | | | [] |
| 1) GHC | 2) GJB | 3) GNC | 4) GIB | |

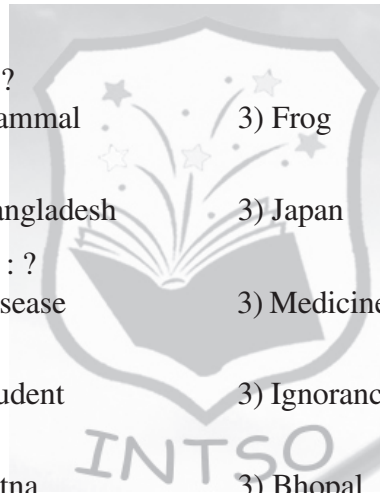
14. EAJ, GDO, IGT, KJY, ? []
 1) MMD 2) NMD 3) MNE 4) MME
15. CP, IO, ON, UM, ? []
 1) YK 2) ZK 3) YL 4) AL

LETTER ANALOGY :

16. GPRS : FOQR :: MAKE : ? []
 1) LZIC 2) LZJD 3) LYJD 4) LZID
17. PORT : QQUX :: ? : CGVX []
 1) BEAT 2) BEET 3) BEST 4) BEES
18. BIT : DLY :: FRY : ? []
 1) HUD 2) HUM 3) HUF 4) HUE
19. RACE : SDHL :: WORD : ? []
 1) XRVK 2) XRWK 3) XSWK 4) XROK
20. VOID : ELRW :: CAPS : ? []
 1) XZLH 2) XZCH 3) XZKH 4) XNKF

WORD ANALOGY :

21. Spider : Insect :: Crocodile : ? []
 1) Reptile 2) Mammal 3) Frog 4) Carnivore
22. Rupee : India :: Yen : ? []
 1) Turkey 2) Bangladesh 3) Japan 4) Pakistan
23. Professor : Lecture :: Doctor : ? []
 1) Hospital 2) Disease 3) Medicine 4) Patient
24. Court : Justice :: School : ? []
 1) Teacher 2) Student 3) Ignorance 4) Education
25. Assam : Disput :: Bihar : ? []
 1) Itanagar 2) Patna 3) Bhopal 4) Panaji



CODING AND DECODING :

26. If SERIOUS is coded as SUOIRES. Then how is MEDICON is coded? []
 1) NMEDICO 2) NMOECDI 3) NMEODCI 4) NOCIDEM
27. If IMPORT is coded as VZCBEG. Then how is SQLAND is coded? []
 1) FDYNAQ 2) FDXMAQ 3) FDYOBQ 4) FDYNCQ
28. If NEWS is coded as ENSW. Then how is DEAR coded? []
 1) EDAR 2) ADER 3) ADRE 4) AERD
29. If MIRACLE is coded as FMDBSJN. Then how is CRICKET coded? []
 1) UFLCISD 2) UFLEKSD 3) UFLDJSJ 4) UFKDJRD
30. If RIT is coded as 47. Then the code of FLY is []
 1) 41 2) 45 3) 47 4) 43

EQUATIONS :

31. Sum of two numbers is 64. One number is three times of the other. Find the greatest number
1) 16 2) 32 3) 48 4) 36 []
32. Sum of two numbers is 60. Greater number exceeds by 12 from the smaller. Find the smallest number
1) 24 2) 36 3) 18 4) 28 []
33. The difference between the two digit number and the number obtained by interchanging its digits is 36. The difference between the digits is
1) 9 2) 5 3) 4 4) 3 []
34. If a number is subtracted from its square we get 342. Find the number
1) 18 2) 21 3) 17 4) 19 []
35. One - fifth of a two digit number exceeds its one - seventh by 2. What is the sum of the digits of the number
1) 6 2) 8 3) 4 4) 5 []
36. One - fourth of one - fifth of one - third is 40. What is 40% of that number
1) 1240 2) 960 3) 880 4) 1260 []

RATIO AND PROPORTION :

37. The greatest ratio out of 3 : 5, 5 : 6, 7 : 10 and 7 : 9 ?
1) 3 : 5 2) 7 : 10 3) 5 : 6 4) 7 : 9 []
38. The third proportional to 5 and 3 is
1) 25 : 6 2) 25 : 3 3) 25 : 9 4) 9 : 5 []
39. The proportion of milk and water in the tin is 12 : 13. How much milk will there be in 100 lt of tin
1) 36 lt 2) 39 lt 3) 26 lt 4) 48 lt []
40. The ratio of two numbers is 3 : 2 and the sum of their squares is 637. The difference of the numbers is
1) 14 2) 8 3) 10 4) 7 []
41. The ratio of the number of girls to boys at a party was 3 : 5. But when 6 girls left, the new ratio becomes 1 : 2. How many people were at the party originally?
1) 96 2) 116 3) 84 4) 124 []

L.C.M AND H.C.M :

42. L.C.M of $\frac{2}{9}, \frac{7}{12}, \frac{5}{21}$ is
1) $\frac{40}{3}$ 2) $\frac{70}{3}$ 3) $\frac{80}{3}$ 4) $\frac{50}{3}$ []
43. H.C.F of $\frac{12}{7}, \frac{15}{8}, \frac{16}{9}$ is
1) $\frac{1}{496}$ 2) $\frac{3}{502}$ 3) $\frac{1}{504}$ 4) $\frac{3}{472}$ []
44. Find the H.C.F of 36, 12, 72, 64 ?
1) 4 2) 6 3) 12 4) 8 []

45. The product of two numbers is 216 and their H.C.F is 6. Find their L.C.M? []
1) 72 2) 36 3) 24 4) 42

PERCENTAGES, PROFIT & LOSS :

46. 40% of a number is added to 27 the result is the same number. Find the number? []
1) 32 2) 42 3) 35 4) 45

47. If 80% of the population of a village is 1248. Find the total population of village? []
1) 1320 2) 1460 3) 1560 4) 1480

48. If the price has fallen by 25% what percent of its consumption be increased so that the expenditure be the same as before ? []

- 1) $33\frac{1}{3}\%$ 2) $11\frac{1}{9}\%$ 3) $9\frac{1}{11}\%$ 4) 30%

49. An article is bought for ₹1240 and sold for ₹1550. Find the gain percent ? []
1) 105 2) 20% 3) 25% 4) 30%

50. A watch was sold at a loss of 35%. If it was sold for ₹360 more, there would have been a gain of 5%. What is the cost price? []

- 1) 860 2) 900 3) 800 4) 750

