

**NATIONAL TALENT SEARCH EXAMINATION  
(NTSE-2015-16) STAGE -1 GUJARAT  
MAT**

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**Max. Marks: 50**

**Time allowed: 45 mins**

In the following questions 1 to 10 questions numbers are arranged in a series with some principles understanding it. One term in the series is missing as shown by \_\_\_\_\_. This term is given as one of the alternatives amongst the four numbers given below it. Find this term and show your answer against the question number on the answer sheet.

1. 1, 12, 18, 25, \_\_\_\_\_, 52  
(1) 32                                      (2) 33                                      (3) 35                                      (4) 34
  2. 9, 16, 25, 36, \_\_\_\_\_, 64, 81  
(1) 40                                      (2) 42                                      (3) 46                                      (4) 49
  3. 2, 2, 4, 12, 48, \_\_\_\_\_.  
(1) 240                                      (2) 220                                      (3) 192                                      (4) 200
  4. 25, 22, 18, 13, 7, \_\_\_\_\_.  
(1) 1                                      (2) 2                                      (3) 3                                      (4) 0
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5. 8, 27, 64, 125, \_\_\_\_\_, 343, 512  
(1) 150 (2) 220 (3) 216 (4) 180
6. 48, 35, 24, \_\_\_\_\_, 8, 3.  
(1) 14 (2) 15 (3) 16 (4) 12
7. 12, 20, 30, 42, \_\_\_\_\_, 72  
(1) 14 (2) 15 (3) 16 (4) 12
8. 17, 22, 26, 29, \_\_\_\_\_, 32, 32  
(1) 30 (2) 31 (3) 32 (4) 29
9. 144, 100, 64, \_\_\_\_\_, 16, 4  
(1) 32 (2) 34 (3) 36 (4) 40
10. 22, 33, 46, \_\_\_\_\_, 78, 97  
(1) 60 (2) 61 (3) 62 (4) 67

In question 11 to 15, English alphabates are given digital numbers. Using them, find the correct code of other English words from the alternatives.









11. If TAKE = 3456, KAML = 5479 are given, what is written for MAKE  
(1) 7465                      (2) 7456                      (3) 7546                      (4) 7564
12. If DOG = 467, CAT = 321 are given, what is written for GOT ?  
(1) 716                      (2) 761                      (3) 671                      (4) 617
13. If A = 1, B = 2, C = 3, D = 4, E = 5, F = 6, G = 7, H = 8, I = 9 and BCGH = 2378 are given, what is given to CDHI = ?  
(1) 3498                      (2) 3849                      (3) 3489                      (4) 3894
14. If CAMEL = 34567, METAL = 56847, what is LEMAT ?  
(1) 76584                      (2) 76458                      (3) 76548                      (4) 76854
15. If HIDE = 8945, BDAF = 2416, what is DIBF?  
(1) 4962                      (2) 4692                      (3) 4296                      (4) 4926

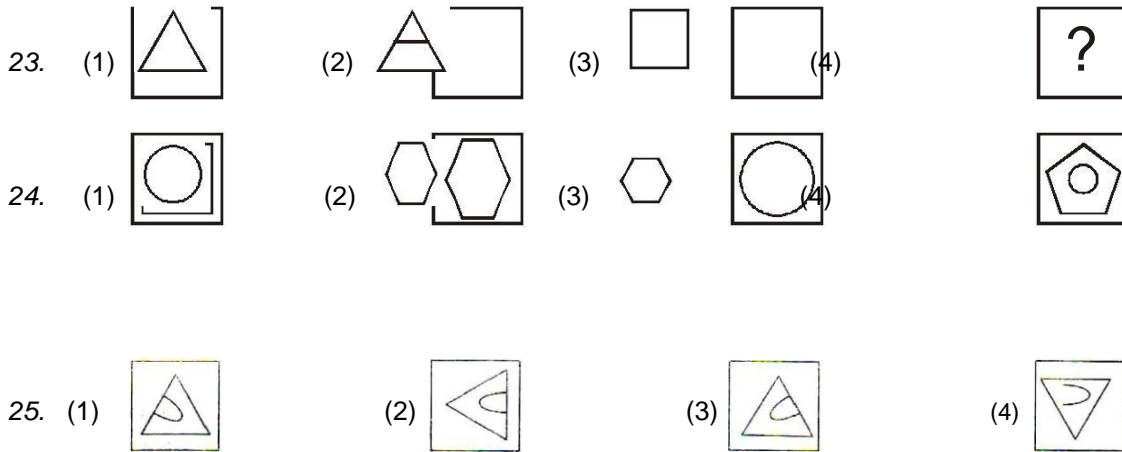
In question No. 16 to 20, if order of English alphabet is changed, code language id changed.

16. If POUND is written instead of DNUOP, what is written for MEGIK ?  
(1) KIMEG                      (2) KIGEM                      (3) KGIEM                      (4) KIGEM

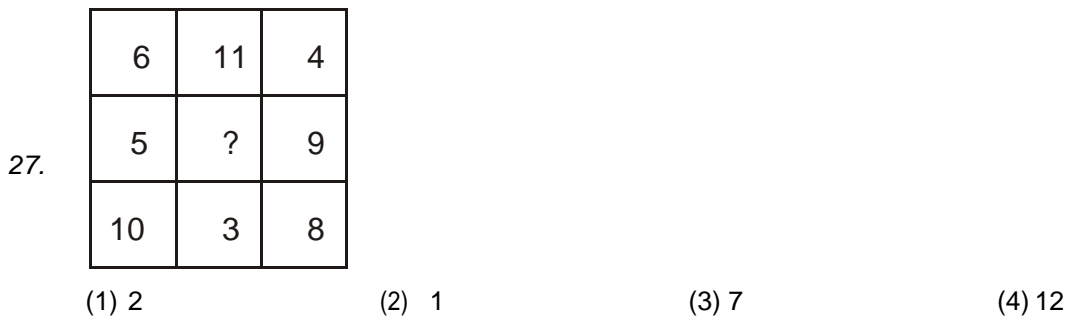
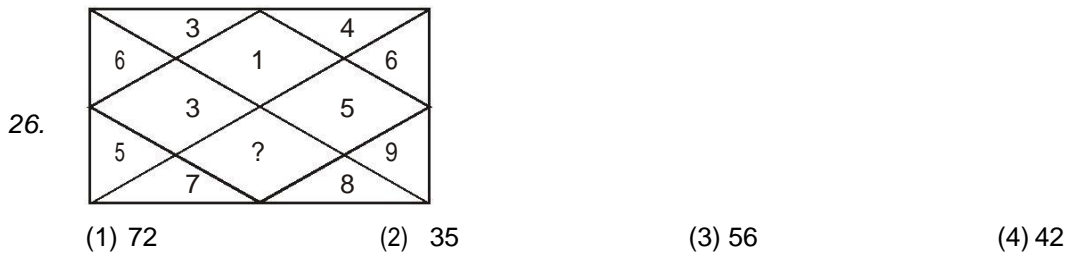
17. If REWOL is written for FLOWER, what is written for MARKET?  
 (1) TEKRMA                    (2) TEKRAM                    (3) TEKAMR                    (4) TEKMAR
18. If PCAT = TACP and RBED = DEBR are written, what is written for DCAB in code language?  
 (1) BACD                    (2) ABCD                    (3) BADC                    (4) ABDC
19. If ABCD is written ZYXW in code language, what is written for EFGH in code language?  
 (1) VUST                    (2) UTSR                    (3) STUV                    (4) VUTS
20. If in any language ROAST by PQYUR, how is expressed SLOPPY ?  
 (1) MRNAQN                    (2) NRMNQA                    (3) QNMRNA                    (4) RANNMQ

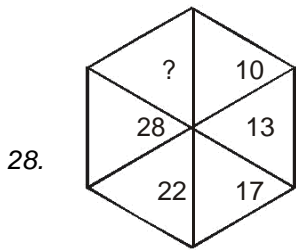
In question No. 21 to 25, four figures are given in each. One of the figure differs from the rest three Which is that figure?

21. (1)  (2)  (3)  (4) 
22. (1)  (2)  (3)  (4) 

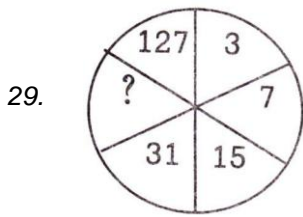


In question No 26 to 30, figures are given with one question mark (?). Complete the figure logically.

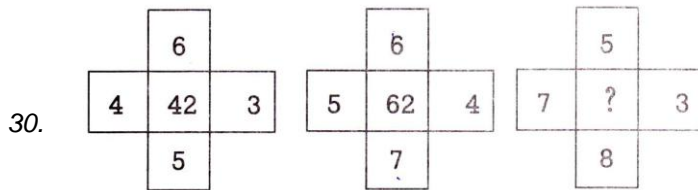




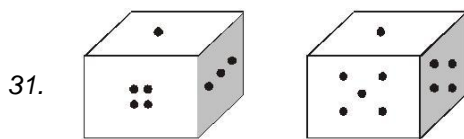
- (1) 34                      (2) 35                      (3) 30                      (4) 36



- (1) 62                      (2) 63                      (3) 106                      (4) 76



- (1) 65                      (2) 60                      (3) 61                      (4) 62



In figure, if at the bottom of the quibic, there are four dots, how many dots can be at the top?

- (1) 2                      (2) 4                      (3) 6                      (4) 3

32. Pointing at the photo, Ramesh said that is the photo of the younger brother of father's daughter's of the only sister of my maternal uncle. What relation of the person in the photo with Ramesh?  
(1) Maternal uncle      (2) Father      (3) Uncle      (4) Brother
33. Tarun went 8 kms in the East from his house. Then turned to left and went to the temple which is 4 kms away. Now to reach his home (without taking turn)) how much distance would he walk?  
(1) 5 (km)      (2) 3 (km)      (3) 8 (km)      (4) 6 (km)
34. Kiran was standing on the way after sunrise. Narmrata who was coming from the opposite direction, saw that the shadow od Kiran was falling on his left. So to which direction was Kiran's face? (Kiran was looking)  
(1) South      (2) South-West      (3) North-West      (4) North





42. If the day before yesterday was Sunday, what day will be on the 5<sup>th</sup> day after day after tomorrow?  
(1) Sunday (2) Saturday (3) Wednesday (4) Thursday

In question No. 43, 44 and 15, one word differs from the rest. Which one is that?

43. (1) Acre (2) Inch (3) Meter (4) Mile

44. (1) Banas (2) Saraswati (3) Rupen (4) Sabarmati

45. Three cities of the following are of one group. Which city differs from that group?

(1) Ahmedabad (2) Jaypur (3) Bhopal (4) Lucknow

46. There is relation between Gujarat and Gandhinagar. Which of the following words has the same type of relation with Asham?

(1) Gauhati (2) Manipur (3) Dispur (4) Mizoram

47. In a line, Parth's sequence is 17<sup>th</sup> from right side and 24<sup>th</sup> from the left side. So how many students are there in that line?

(1) 41 (2) 40 (3) 42 (4) 39



48. 20% of 20% of a number is 20. What is that number?

(1) 200 (2) 400 (3) 500 (4) 2000

49. If 'City' is called 'Village', 'Village' is called 'Sofa' and 'Sofa' is 'Bathroom', then where does lion live?

(1) in a Jungle (2) In a Sofa (3) In a bathroom (4) In a village

50. The addition of the squares of two numbers in squares is 221. Which are those numbers?  
(1) 100 and 111      (2) 9 and 10      (3) 10 and 11      (4) 11 and 12