

CENTRE NO.

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SEAT NO.

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QUESTION PAPER CODE NO.

0	5	3	3
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**HIGH SCHOOL SCHOLARSHIP EXAMINATION, 2003**  
**INTELLIGENCE TEST (English)**  
**(Total Marks — 100)**

SUNDAY, 16th FEBRUARY 2003]



[ TIME : 3-00 P.M. TO 4-00 P.M.

Alphabets:—      ABCDE      FGHIJ      KLMNO      PQRST      UVWXY

**Q. 1. to 5.** → In the letter series given below, which letters will come in place of the question mark?

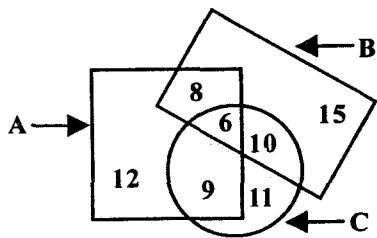
- EA, FJ, OK, PT, ?  
 (1) UY                      (2) VY                      (3) YU                      (4) YV
- HC, CM, MH, HR, RM, ?  
 (1) MW                      (2) WM                      (3) WR                      (4) RW
- CI, EJ, GK, IL, ?  
 (1) JM                      (2) KM                      (3) KL                      (4) IK
- BK, DI, FG, HE, ?  
 (1) JD                      (2) JB                      (3) IC                      (4) JC
- FA, HC, JE, LG, ?  
 (1) NI                      (2) JN                      (3) NJ                      (4) IN
- Which of the following is a factor of the sum of three digit numbers 'abc', 'bca' and 'cab'?  
 (1) 21                      (2) 23                      (3) 31                      (4) 37

Space for Rough Work

**Q. 7. to 11.** → **Instructions:—** In each of the following questions, there is a certain relation between the first and the second term. The same relation exists between the third and the fourth term. Find the relation and choose the correct answer to replace the question mark.

7.  $4 : 20 :: 6 : ?$   
 (1) 35                      (2) 36                      (3) 42                      (4) 48
8.  $5 \Delta 12 : 13 :: 8 \Delta 15 : ?$   
 (1) 14                      (2) 15                      (3) 16                      (4) 17
9.  $2 \star 3 : 13 :: 1 \star 3 : ?$   
 (1) 8                      (2) 9                      (3) 10                      (4) 15
10.  $36 : 55 :: 64 : ?$   
 (1) 89                      (2) 90                      (3) 91                      (4) 92
11.  $111 \times 111 : 12321 :: 1111 \times 1111 : ?$   
 (1) 1213211              (2) 1234321              (3) 1245421              (4) 1345431

**Q. 12. to 14.** → **Instructions:—** Study the given diagram and answer these questions, choosing correct alternative.



A : Serving persons

B : Persons travelling by bus

C : Persons travelling by railway

12. How many serving persons do not travel by bus?  
 (1) 12                      (2) 20                      (3) 21                      (4) 29
13. How many serving persons travel?  
 (1) 27                      (2) 23                      (3) 14                      (4) 12
14. How many persons travel but do not serve?  
 (1) 15                      (2) 26                      (3) 36                      (4) 50

Alphabets:—      ABCDE      FGHIJ      KLMNO      PQRST      UVWXY

**Q. 15. to 18.** → *Instructions:*— Choose correct alternative to replace the question mark in given series.

15. 21, 31, 42, 62, 84, ?  
 (1) 108                      (2) 110                      (3) 120                      (4) 124
16. 169, 121, 81, 49, ?  
 (1) 31                      (2) 29                      (3) 25                      (4) 23
17. 123, 235, 358, 5813, ?  
 (1) 81319                      (2) 81321                      (3) 81323                      (4) 13821
18.  $\frac{1}{4}, \frac{4}{9}, \frac{9}{16}, \frac{16}{25}, ?$   
 (1)  $\frac{25}{16}$                       (2)  $\frac{25}{36}$                       (3)  $\frac{25}{49}$                       (4)  $\frac{25}{64}$

**Q. 19. to 21.** → *Instructions:*— These questions are based on the following table showing how the words in Column I are expressed using certain code, in Column II. The symbols used in Column II are not necessarily in the same order of letters in Column I.

Column I	Column II
POST	□ △ ★ ∪
RED	○ ▲ *
DARK	○ ● ■ ▲
DATE	□ ● * ▲








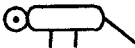
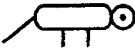








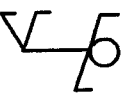
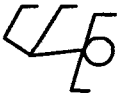

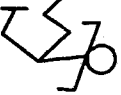
19. READ = ?  
 (1) ○ \* ▲ ●                      (2) ○ \* ● △                      (3) ○ \* ● □                      (4) ○ \* ● ▲
20. PAPER = ?  
 (1) ★ ● ★ □ ○                      (2) ★ ● ★ \* ○                      (3) ★ ● △ \* ○                      (4) ★ ○ ★ \* ●
21. TAKE = ?  
 (1) □ ○ ■ \*                      (2) □ ● ■ \*                      (3) □ ● □ \*                      (4) □ ● ■ △



**Q. 30. to 32.** → *Instructions:*— In each of the following questions, find the odd number.

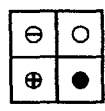
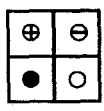
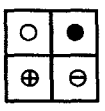
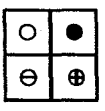
30. 1, 3, 6, 10, 15, 17, 21, 28.  
 (1) 15                              (2) 17                              (3) 21                              (4) 28
31. 0, 6, 20, 30, 42, 72.  
 (1) 20                              (2) 30                              (3) 42                              (4) 72
32. 2, 6, 12, 20, 32, 42, 56.  
 (1) 12                              (2) 20                              (3) 32                              (4) 42

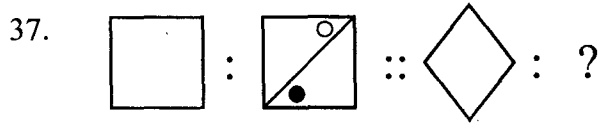
**Q. 33. to 35.** → *Instructions:*— In each of these questions a figure and its mirror-image is given without showing, where the mirror is placed. Decide the position of the mirror and from the given alternatives find the one, showing the mirror-image of second figure.

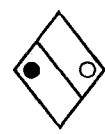

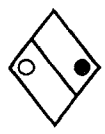
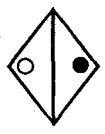
33.  :  then  : ?  
 (1)       (2)       (3)       (4) 
34.  :  then  : ?  
 (1)       (2)       (3)       (4) 
35.  :  then  : ?  
 (1)       (2)       (3)       (4) 

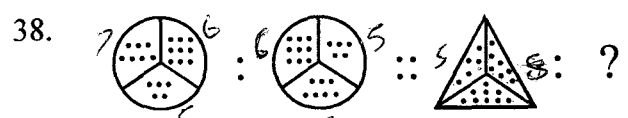
**Q. 36. to 39.** → *Instructions:*— In each of these questions there is a certain relation between the first and the second figure. The same relation exists between the third and the fourth figure. Find the relation and choose the correct answer to replace the question mark.

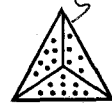
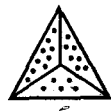




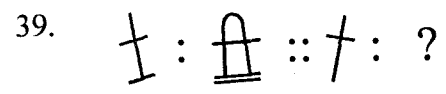
- (1)  (2)  (3)  (4) 






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

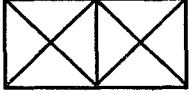


- (1)  (2)  (3)  (4) 



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

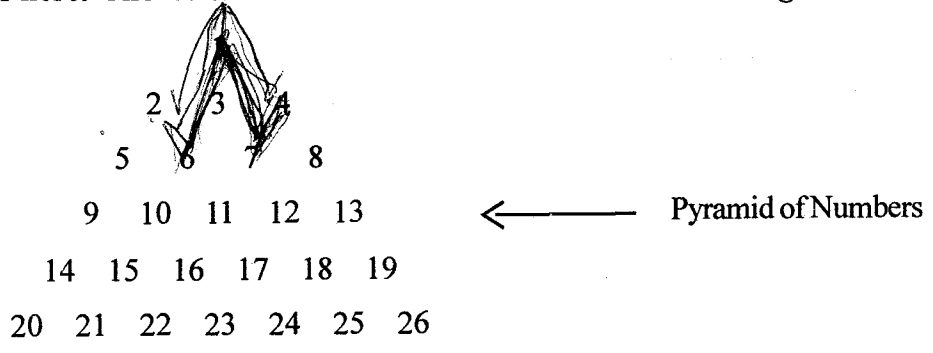
40. If  $1 + 3 + 5 = 3^2$  and  $1 + 3 + 5 + 7 = 4^2$   
 then  $\sqrt{1 + 3 + 5 + 7 + 9 + \dots + 99} = ?$   
 (1) 45                      (2) 46                      (3) 49                      (4) 50

41.  In the adjoining figure, in all how many quadrilaterals are there?  
 (1) 8                      (2) 14                      (3) 12                      (4) 10

**Q. 42. to 44.** → **Instructions:—** In each of these questions find the term which does not belong to the group of the remaining three.

42. (1) BDF                      (2) XVT                      (3) HJL                      (4) RPM  
 43. (1) E                      (2) L                      (3) R                      (4) X  
 44. (1) HR                      (2) TF                      (3) OK                      (4) SG

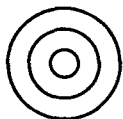
**Q. 45. to 47.** → **Instructions:—** These questions are based on the pyramid of numbers given here. Choose the correct answer from the alternatives given below.



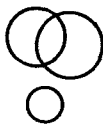
45. If  $9510 : 13812$  then  $2109 : ?$   
 (1) 4712                      (2) 4812                      (3) 41213                      (4) 41112  
 46. If  $2611 : 1174$  then  $61117 : ?$   
 (1) 111724                      (2) 61124                      (3) 17128                      (4) 81217  
 47. If  $26117 : 47116$  then  $101174 : ?$   
 (1) 121174                      (2) 111063                      (3) 121162                      (4) 81273

**Q. 48. to 50.** → *Instructions:*— These questions are based on diagrams A, B, C and D.

Each of these diagrams represent certain sets. For example, diagram C represents 'plants, animals and herbs.' Using these diagrams attempt Q. 48, 49 and 50.



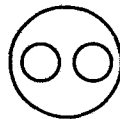
A



B



C



D

48. 'Livings, animals, crows' are represented by?

- (1) A                      (2) B                      (3) C                      (4) D

49. 'Livings, crows, trees' are represented by?

- (1) A                      (2) B                      (3) C                      (4) D

50. 'Natural numbers, even numbers, odd numbers' are represented by?

- (1) A                      (2) B                      (3) C                      (4) D