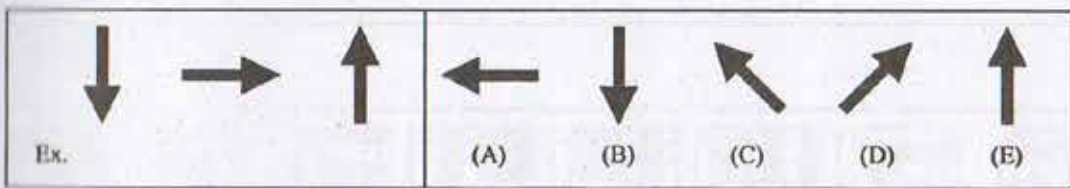


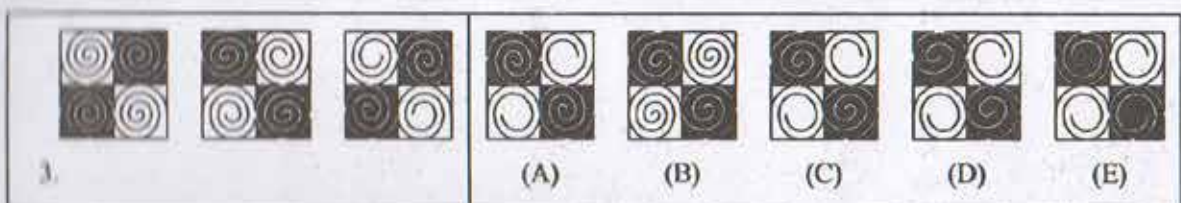
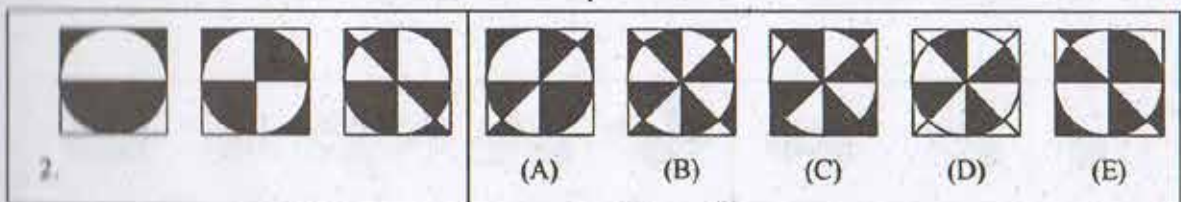
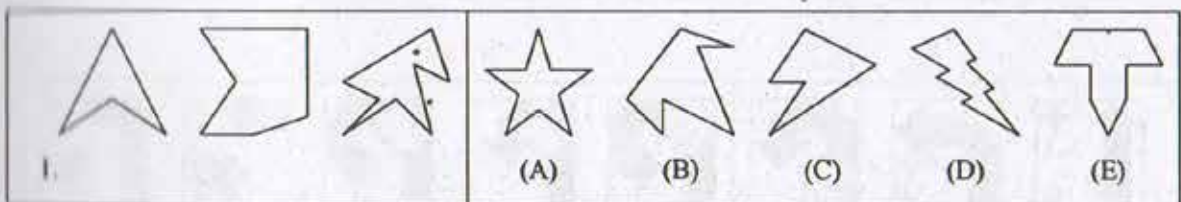
TEST B. INDUCTIVE REASONING

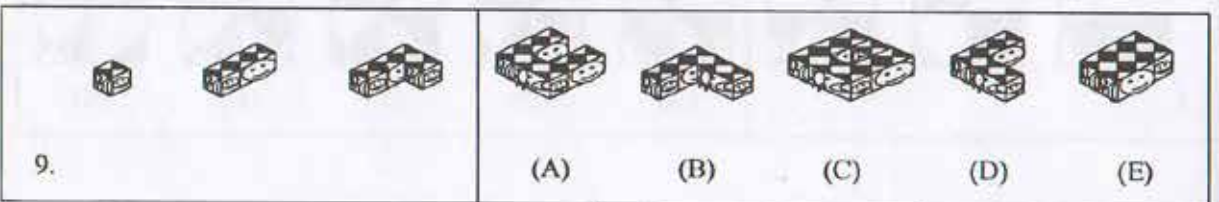
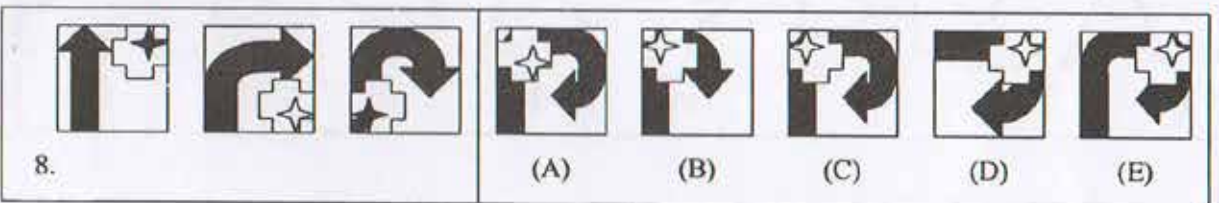
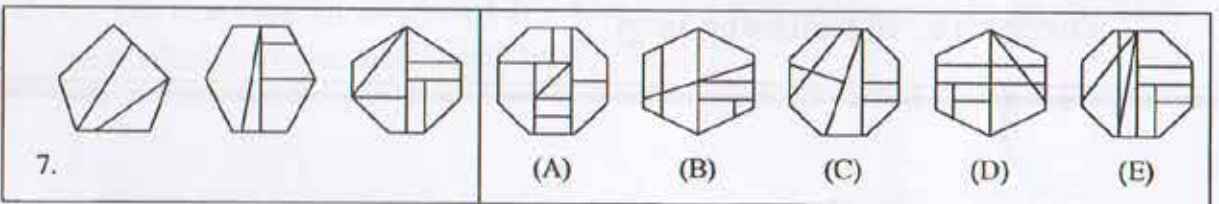
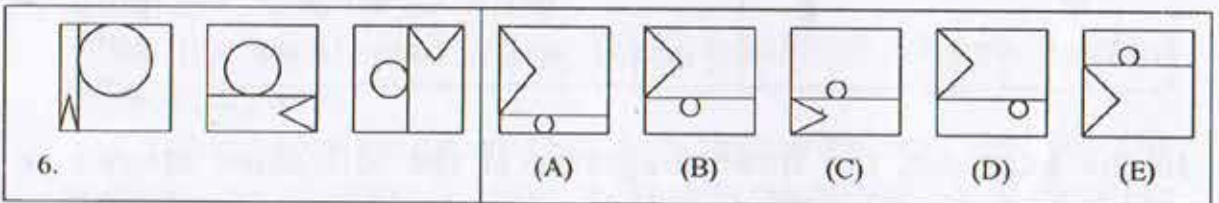
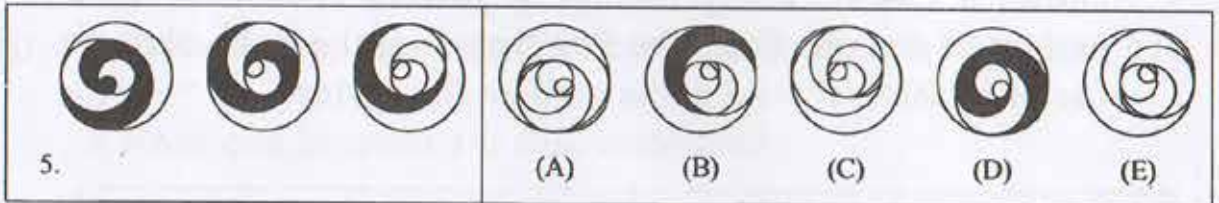
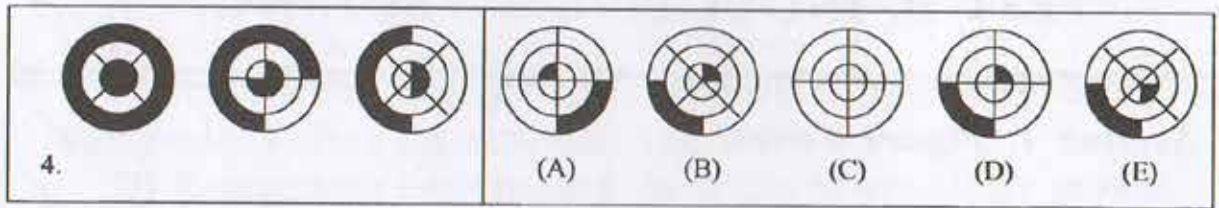
Section 1. Figure Series.

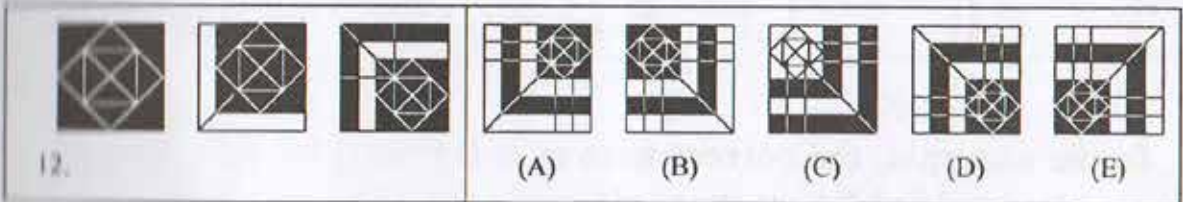
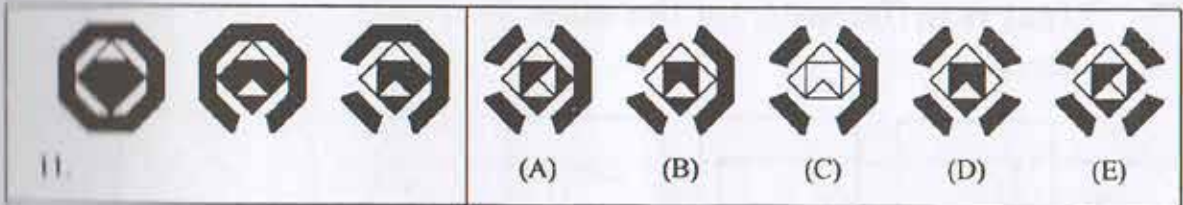
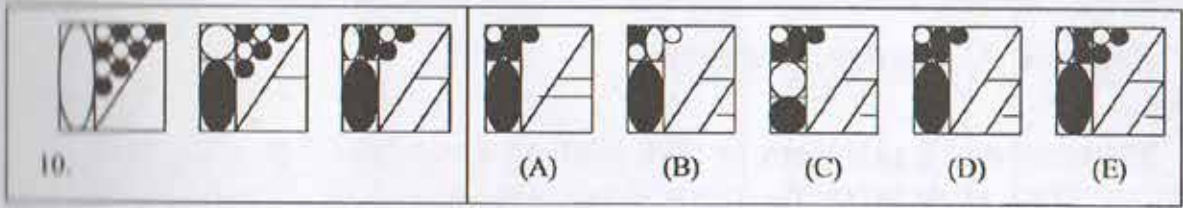
DIRECTIONS. In each item below, the series of figures at the left shows a continuously changing pattern. Discover this pattern of change. From the five figures at the right, choose the one which should come next in the series.



In the example, the three diagrams at the left show arrows progressively shifting 90° counterclockwise. If a fourth arrow followed, it should already be pointing to the left. Therefore, the answer is A.

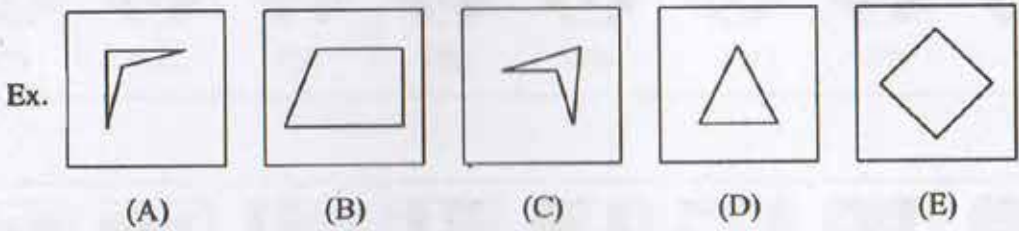




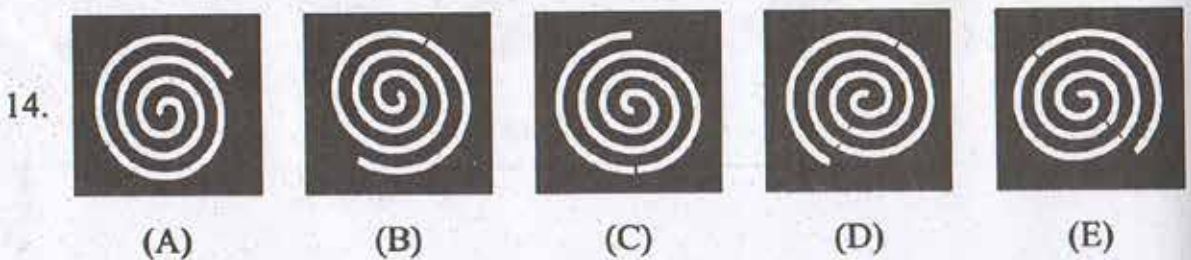
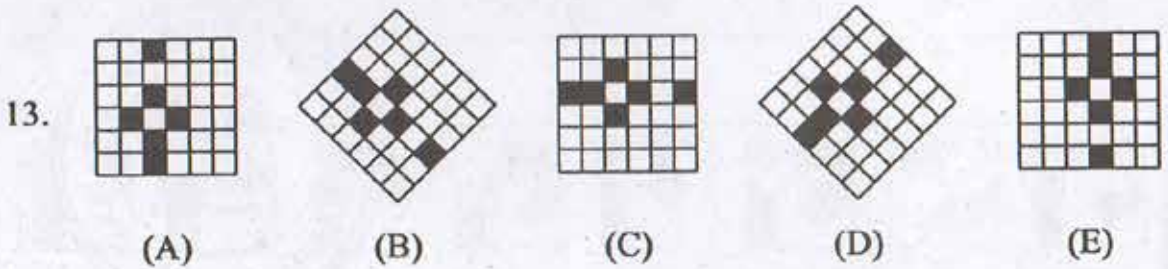


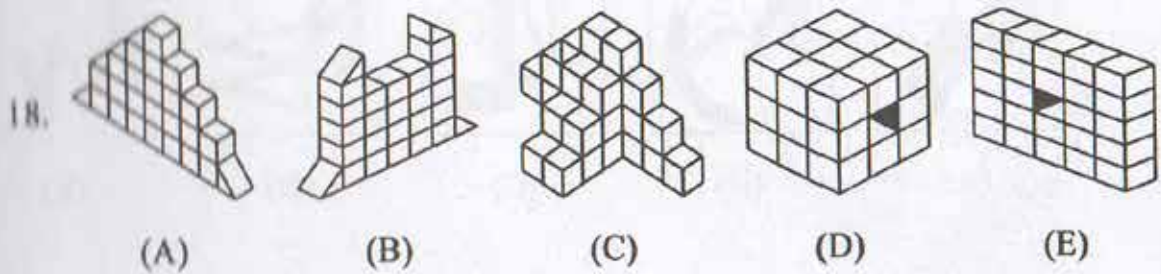
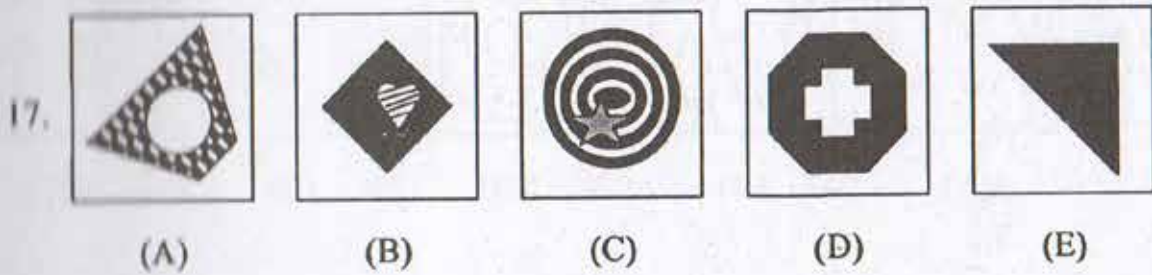
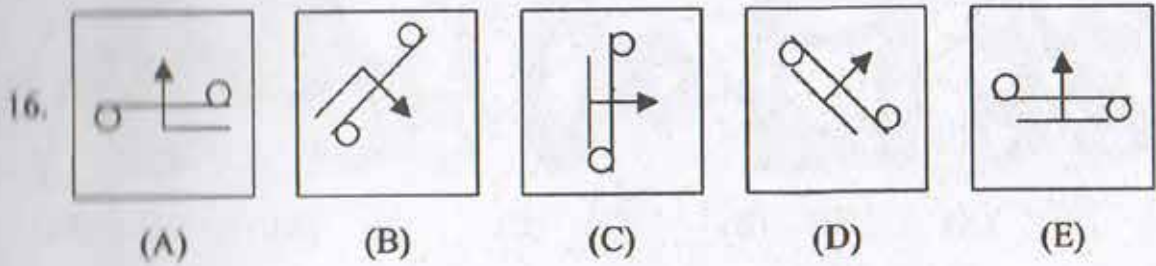
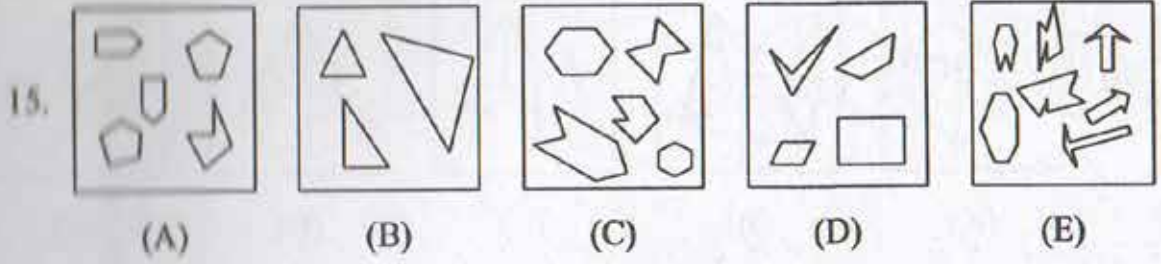
**Section 2. Figure Grouping.**

**DIRECTIONS.** Each item in this section consists of five figures. The task is to find the principle involved which makes four of the five figures similar to each other. The figure that is different from the other four is the answer to the item.



In the example, the correct answer is figure D because it is a three-sided figure (triangle) whereas all the other figures are four-sided (quadrilaterals).

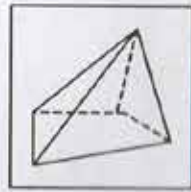




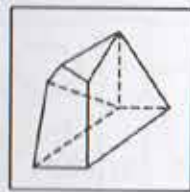
19.



(A)



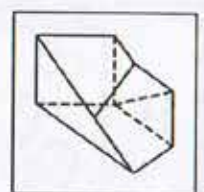
(B)



(C)



(D)



(E)

20.



(A)



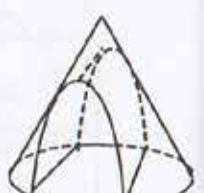
(B)



(C)



(D)



(E)

21.



(A)



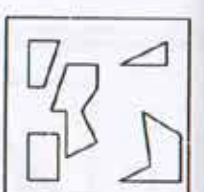
(B)



(C)



(D)



(E)

22.



(A)



(B)



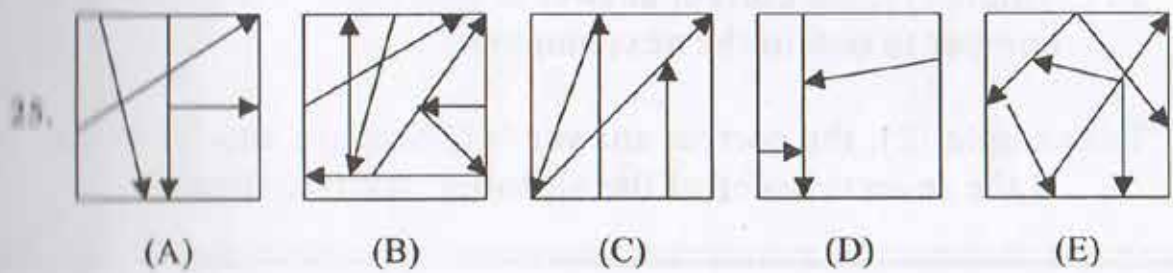
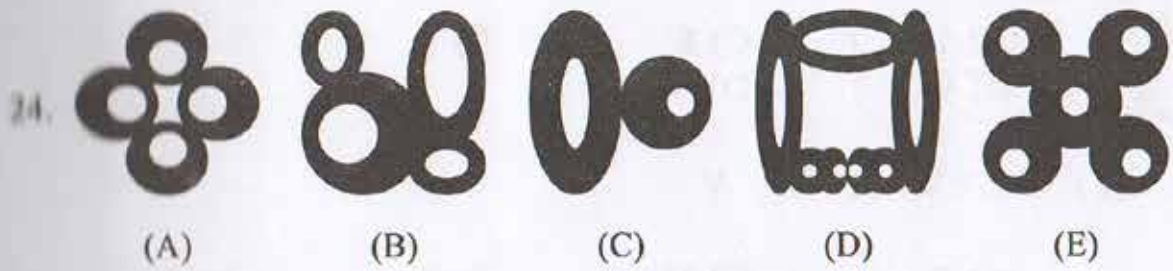
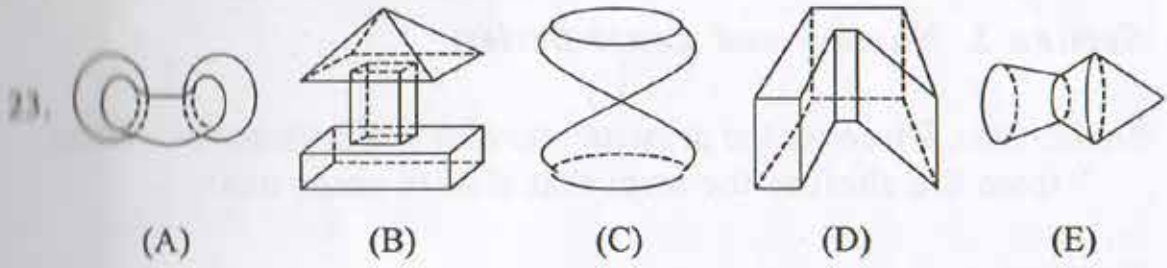
(C)



(D)



(E)



**Section 3. Number and Letter Series.**

**DIRECTIONS.** Discover the principle involved in each series. Select from the choices the term that should come next.

**EXAMPLES:**

(1) 1 2 3 4 5

- A) 10                      C) 8                      E) 6  
 B) 9                        D) 7

(2) Z Y X W V

- A) R                        C) U                      E) S  
 B) Q                        D) T

In example (1), the correct answer is E because 1 is added to a number to obtain the next number.

In example (2), the correct answer is C because what is given is the reverse order of the alphabet, starting from Z.

26. O T T F F S

- A) S                        C) R                      E) T  
 B) O                        D) E

27. 3 8 16 21 42 47 94

- A) 97                        C) 188                    E) 198  
 B) 99                        D) 189

28. 2 2 3 6 8 24 27

- A) 30                        C) 108                    E) 121  
 B) 81                        D) 112



29 A B D C F G N

- A) Z                      C) O                      E) P  
 B) L                      D) M

30 AZ CX EV GT

- A) DW                      C) DR                      E) IR  
 B) DI                      D) IW

31 AN CP FS

- A) JW                      C) HU                      E) OZ  
 B) IV                      D) GT



32 B e I n

- A) U                      C) V                      E) W  
 B) S                      D) T

33 z W u r P m K h

- A) E                      C) e                      E) f  
 B) F                      D) G

34 123 142 281 321 442 583 623

- A) 663                      C) 742                      E) 822  
 B) 721                      D) 762

35 F A E B D

- A) G                      C) A                      E) D  
 B) C                      D) E

36 YZ TS QR LK IJ

- A) AB                      C) BA                      E) DC  
 B) AC                      D) CD

37. ab Dc eF HG IJ lK Mn po qr  
 A) sT C) vU E) Wx  
 B) Ts D) UV
38. 40 92 117 221 622 778  
 A) 1429 C) 882 E) 787  
 B) 986 D) 830
39. 18 30 9 33 -9 27 -36 12 -72 -12 -18  
 A) -63 C) 27 E) 108  
 B) -30 D) 54
40. C2a F5d l8g  
 A) i10K C) L11j E) k12M  
 B) j10m D) J11k
41. 2 2a 4 4Z 16 61b 256 652Y 65536  
 A) 256X C) 63556c E) 425104X  
 B) 256c D) 65536c
42. Nb bN aC Ca Sf fS tA  
 A) TA C) aT E) At  
 B) Ta D) tA
43. 8gW1 7sL2 6dH3 5mN4 4nM5 3hD6 2lS7  
 A) 8Gw1 C) 8Wg1 E) 8wg1  
 B) 1wG8 D) 1gW8
44. 0A 7a 4A 7e 0A 7i 8A 7o 0A 7u  
 A) 0A C) 7e E) 12a  
 B) 7a D) 12A

45. z V s o L h E

- A) a                      C) C                      E) E  
 B) b                      D) D

46. 2M0z 12K14x 22I20v 32G34t 42E40r

- A) 44C46n              C) 52C54p              E) 52A52p  
 B) 44B42n              D) 52B50p

47. m V e M j S u

- A) P                      C) Q                      E) R  
 B) N                      D) Y

48. I V X L

- A) M                      C) D                      E) W  
 B) H                      D) C

49. 2b 3C 5e 7g 11K 13m 17Q 19s

- A) 22v                      C) 21U                      E) 23w  
 B) 26z                      D) 24X

50.  $(a + 1)^1$   $(b - 2)^2$   $(f \times 6)^3$   $(f \div 24)^4$

$(c + 120)^5$   $(i - 720)^6$   $(i \times 5040)^7$

- A)  $(i + 40320)^8$                       D)  $(k + 40320)^8$   
 B)  $(k + 362880)^8$                       E)  $(i \div 362880)^8$   
 C)  $(j + 40320)^8$

