Directions for Q.1 & Q.2 : In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

1. 2760, 960, ?, 48, 16, 8
   (a) 120   (b) 160   (c) 192   (d) 240

2. 4, 10, ?, 82, 244, 730
   (a) 24   (b) 28   (c) 77   (d) 218

3. In the series 10, 17, 24, 31, 38, ... which of the following will be a number of the series?
   (a) 48   (b) 346   (c) 574   (d) 1003

4. Find the next term in the series : BMO, EOQ, HQS, ?
   (a) KSU   (b) LMN   (c) SOV   (d) SOW

Direction for Q.5 : In the following question, various terms of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing terms out of the given alternatives.

5. ADVENTURE, DVENTURE, DVENTUR, ?, VENTU
   (a) DVENT   (b) VENTURE
   (c) VENTUR   (d) DVENTU   (e) None

Direction for Q.6 : In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

6. aa __ aaa __ aaaa __ aaaa __ b
   (a) baaa   (b) bbaa   (c) bbbb   (d) bbba

Directions for Q.7 & Q.10 : There is a certain relation between two given words on one side of : : and one word is given on another side of : : while another word is to be found from the given alternatives, having the same relation with this word as the given pair has. Select the best alternative.
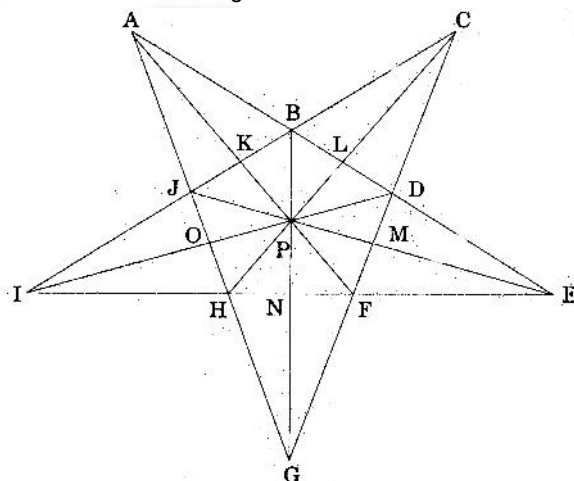
7. Deep : Shallow : : Freedom : ?
   (a) Prison   (b) Discipline
   (c) Convict   (d) Democracy

8. Ludhiana : Hosiery : : Surat : ?
   (a) Silk   (b) Textile   (c) Pottery   (d) Wool

9. Monarchy : King : : Aristocracy : ?
   (a) Nobles   (b) Wealthy   (c) People   (d) God

10. Connoisseur : Art : : Gourmet : ?
    (a) Food   (b) Money   (c) Drink   (d) Flesh

Directions for Q.11 : There is a certain relationship between two given numbers on one side of : : and one number is given on another side of : : while another number is to be found from the given alternatives, having the same relation with this number as the numbers of the given pair bear. Select the best alternative.

11. 182 : ? : : 210 : 380
    (a) 156   (b) 240   (c) 272   (d) 342

12. 0.16 : 0.0016 : : 1.02 : ?
    (a) 0.0102   (b) 0.102   (c) 1.020   (d) 10.20

Directions for Q.13 : The following question is based on the letters written along the figure given. The relationship between the two terms written to the left of : : is retained in the two terms to the right of it. Out of these four terms, one term is missing. Choose the term out of the given alternatives.

13. BPM : GNJ : : ? : AKD
    (a) FPO   (b) FPM   (c) HPB   (d) LPH   (e) KPD

Directions for Q.14 : There is some relationship between the two terms to the left of : : and the same relationship holds between two terms to its right. Also, in each question one term either to the right of : : or to the left of it is missing. This term is given as one of the alternatives given below each question. Find out this term.

14. B : 16 : : D : ?
    (a) 120   (b) 150   (c) 200   (d) 256

Directions for Q.15 : In the following question, choose that set of numbers from the four alternative sets, that is similar to the given set.

15. Given set : (18, 8, 2)
    (a) 3, 7, 1   (b) 11, 12, 10   (c) 17, 9, 3   (d) 24, 22, 4

16. Choose the odd numeral which is different from others in the group :
    (a) 21   (b) 36   (c) 49   (d) 56   (e) 91

17. Choose the odd numeral pair/group in each of the following question :
    (a) 22 – 3   (b) 28 – 4   (c) 36 – 5   (d) 43 – 6   (e) 50 – 7

18. Choose the odd numeral pair/group in each of the following question :
    (a) $0.50, 1\frac{1}{2}, 3.00, 0.25$ (b) $\frac{1}{2}, 0.75, 1\frac{1}{2}, 1.00$

    (c) 0.5, 0.75, 1.5, 1   (d) $1.00, 1\frac{1}{2}, 3.00, 2.00$

19. In the following question, some groups of letters are given, all of which, except one, share a common similarity while one is different. Choose the odd one out.
    (a) XW   (b) FG   (c) ML   (d) PO   (e) TS

20. In the following question, five groups of letters are given, out of which four are alike in a certain way while one is different. Choose the odd one.
    (a) abcq   (b) pqrB   (c) mnpC   (d) xyzT   (e) efgP

1. (c) : The pattern is $\div 6, \div 5, \div 4, \div 3, \div 2$. So the missing term = $960 \div 5 = 192$.

2. (b) : Each number in the series is 2 less than thrice the preceding number. So, missing number = $(10 \times 3) - 2 = 28$.

3. (b) : The given series consists of numbers each of which, on dividing by 7, leaves a remainder 3. No other number except 346 satisfies the property.

4. (b) : Clearly, the individual letters of the terms of the given series follow the pattern shown below :

    1st letter : $A \xrightarrow{+3} D \xrightarrow{+4} H \xrightarrow{+5} M \xrightarrow{+6} S \xrightarrow{+7} Z$

    2nd letter : $B \xrightarrow{+5} G \xrightarrow{+6} M \xrightarrow{+7} T \xrightarrow{+8} B \xrightarrow{+9} K$

    3rd letter : $D \xrightarrow{+7} K \xrightarrow{+8} S \xrightarrow{+9} B \xrightarrow{+10} L \xrightarrow{+11} W$

    Thus, the missing term is ZKW. Hence the answer is (b).

5. (c) : One letter from the beginning and one from the end of a term are removed, one by one, in alternate steps.

6. (d) : The series is aa<u>b</u>/aaa<u>b</u>/aaaa<u>b</u>/aaaa<u>a</u>b.

    Thus, the number of a's is increaing by one in the successive sequence.

7. (b) : The word in each pair are antonyms of each other.

8. (b) : First is a place famous for the production of second.

9. (a) : Monarchy is rule by a king. Similarly, aristocracy is government by the nobles.

10. (a) : First has a good taste for the second.

11. (d) : Clearly, $210 = (15)^2 - 15$ and $380 = (15 + 5)^2 - (15 + 5)$

    Now, $182 = (13)^2 + 13$

    So, required number = $(13 + 5)^2 + (13 + 5) = (18)^2 + 18 = 342$

12. (a) : The relationship is 100x : x.

13. (a) :

14. (d) : B is the 2nd letter of the English alphabet and $2^4 = 16$.

    Similarly, D is the 4th letter of the English alphabet and $4^4 = 256$.

15. (d) : Each set consists of even numbers only whose H.C.F. is 2.

16. (b) : Each of the numbers except 36, is divisible by 7.

17. (b) : In all other pairs, the first number when divided by the second leaves 1 as remainder.

18. (a) : In all other groups, the numbers are in the ratio 2 : 3 : 6 : 4.

19. (b) : All other groups contain two consecutive letters in reverse order.

20. (a) : Each of the other groups contains a capital letter.