

- a) 24
- b) 16
- c) 12
- d) 8

Ans) a

Q.57) 24 men and 12 women can do a piece of work in 30 days. In how many days can 12 men and 24 women do the same piece of work?

- a) 30 days
- b) More than 30 days
- c) Less than 30 days or more than 30 days
- d) Data is inadequate to draw any conclusion

Ans) d

Q.58) What is the remainder when $91 \times 92 \times 93 \times 94 \times 95 \times 96 \times 97 \times 98 \times 99$ is divided by 1261?

- a) 3
- b) 2
- c) 1
- d) 0

Ans) d

Q.59) Consider the following statements in respect of a rectangular sheet of length 20 cm and breadth 8 cm:

1. It is possible to cut the sheet exactly into 4 square sheets.
2. It is possible to cut the sheet into 10 triangular sheets of equal area.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Ans) c

Q.60) When 70% of a number x is added to another number y , the sum becomes 165% of the value of y . When 60% of the number x is added to another number z , then the sum becomes 165% of the value of z . Which one of the following is correct?

- a) $z < x < y$
- b) $x < y < z$
- c) $y < x < z$
- d) $z < y < x$

Ans) a

Directions for the following 3 (three) Items:

Read the following two passages and answer the items that follow the passages. Your answers to these items should be based on the passages only.

Passage-1

The majority of people who fail to accumulate money sufficient for their needs, are generally, easily influenced by the opinions of others. They permit the newspapers and the gossiping neighbours to do their thinking for them. Opinions are the cheapest commodities on the earth. Everyone has a flock of opinions ready to be wished upon by anyone who will accept them. If you are influenced by opinions when you reach decisions, you will succeed in any undertaking.

Q.61) Which one of the following is implied by the passage?

- a) Most of the people do not accumulate money for their needs.
- b) Most of the people never fail to accumulate money for their needs.
- c) There are people who fail to accumulate money for their needs.
- d) There is no need to accumulate money.

Ans) c

Q.62) What is the main idea of the passage?

- a) People should not be influenced by the opinions of others.
- b) People should accumulate as much money as they can.
- c) People should neither give nor accept the opinions.
- d) People will succeed in any undertaking if they do not accept any opinion at all.

Ans) a

Passage-2

The social order is a sacred right which is the basis of all other rights. Nevertheless, this right does not come from nature, and must therefore be founded on conventions.

Q.63) With reference to the above passage. Which of the following statements is/are correct?

1. Conventions are the sources of rights of man.
2. Rights of man can be exercised only when there is a social order.

Select the correct answer using the code given below.

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Ans) a

Q.64) Two candidates X and Y contested an election. 80% of voters cast their vote and there were no invalid votes. There was no NOTA (None of the above) option. X got 56% of the votes cast and won by 1440 votes. What is the total number of voters in the voters list?

- a) 15000
- b) 12000
- c) 9600
- d) 5000

Ans) a

Q.65) What is the smallest number greater than 1000 that when divided by any one of the numbers 6, 9, 12, 15, 18 leaves a remainder of 3?

- a) 1063
- b) 1073
- c) 1083
- d) 1183

Ans) d

Q.66) Let p be a two-digit number and q be the number consisting of same digits written in reverse order. If $p \times q = 2430$, then what is the difference between p and q ?

- a) 45
- b) 27
- c) 18
- d) 9

Ans) d

Q.67) Consider the following statements in respect of two natural numbers p and q such that p is a prime number and q is a composite number:

1. $p \times q$ can be an odd number.
2. q/p can be a prime number.
3. p/q can be a prime number.

Which of the above statements are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Ans) d

Q.68) Consider the following statements:

1. Between 3:16 p.m. and 3:17 p.m. both hour hand and minute hand coincide.
2. Between 4:58 p.m. and 4:59 p.m. both minute hand and second hand coincide.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Ans) c

Q.69) There are two containers X and Y. X contains 100 ml of milk and Y contains 100 ml of water. 20 ml of milk from X is transferred to Y. after mixing well, 20 ml of the mixture in Y is transferred back to X. if m

denotes the proportion of milk in X and n denotes the proportion of water in Y, then which one of the following is correct?

- a) $m = n$
- b) $m > n$
- c) $m < n$
- d) cannot be determined due to insufficient data

Ans) c

Q.70) A pie chart gives the expenditure on five different items A, B, C, D and E in a household. If B, C, D and E correspond to 90° , 50° , 45° , and 75° respectively, then what is the percentage of expenditure on item A?

- a) $\frac{112}{9}$
- b) $\frac{125}{6}$
- c) $\frac{155}{9}$
- d) $\frac{250}{9}$

Ans) d

Directions for the following 3 (three) items: Read the following two passages and answer the items that follow the passages. Your answers to these items should be based on the passages only.

Passage - 1

To encourage research is one of the functions of a university. Contemporary universities have encouraged research, not only in those cases where research is necessary, but on all sorts of entirely unprofitable subjects as well. Science research is probably never completely valueless, However silly and insignificant it may seem, however mechanical and unintelligent the labours of the researchers, there is always a chance that the results may be of value to the investigator of talent, who can use the facts collected for him by uninspired but industrious researchers as the basis of some fruitful generalization. But consists in the mere rearrangement of existing materials, where its object is not scientific but literary or historical, then there is a risk of the whole business becoming merely futile.

Q.71) The author's assumption about scientific research is that

- a) it is never very valuable

- b) it is sometimes very valuable
- c) it is never without some value
- d) it is always very valuable

Ans) c

Q.72) According to the author

- a) not many research results can be of value to an intelligent investigator
- b) a research result is always valuable to an intelligent investigator
- c) any research result can be of value to an intelligent investigator
- d) a research result must always be of some value to an intelligent investigator

Ans) c

Passage-2

How best can the problems of floods and droughts be addressed so that the losses are minimal and the system becomes resilient? In this context, one important point that needs to be noted is that India gets 'too much' water (about 75% of annual precipitation) during 120 days (June to September) and 'too little' for the remaining 245 days. This skewed water availability has to be managed and regulated for its consumption throughout the year.

Q.73) Which one of the following best reflects the practical, rational and lasting solution?

- a) Constructing huge concrete storage tanks country and canals across the
- b) Changing the cropping patterns and farming practices
- c) Interlinking of rivers across country the
- d) Buffer stocking of water through dams and recharging aquifers

Ans) d

Q.74) If $15 \times 14 \times 13 \times \dots \times 3 \times 2 \times 1 = 3^m \times n$

where m and n are positive integers, then what is the maximum value of m?

- a) 7
- b) 6
- c) 5
- d) 4

Ans) b

Q.75) What is the value of X in the sequence

2, 12, 36, 80, 150, X?

- a) 248
- b) 252
- c) 258
- d) 262

Ans) c

Q.76) One non-zero-digit, one vowel and one consonant from English alphabet (in capital) are to be used in forming passwords, such that each password has to start with a vowel and end with a consonant. How many such passwords can be generated?

- a) 105
- b) 525
- c) 945
- d) 1050

Ans) c

Q.77) There are 9 cups placed on a table arranged in equal number of rows and columns out of which 6 cups contain coffee and 3 cups contain tea. In how many ways can they be arranged at that each row should contain at least one cup of coffee?

- a) 18
- b) 27
- c) 54
- d) 81

Ans) d

Q.78) The sum of three consecutive integers is equal to their product. How many such possibilities are there?

- a) Only one
- b) Only two

- c) Only three
- d) No such possibility is there

Ans) c

Q.79) What is the number of numbers of the form $0.XY$, where X and Y are distinct non-zero digits?

- a) 72
- b) 81
- c) 90
- d) 100

Ans) a

Q.80) The average weight of A, B, C is 40 kg the average weight of B, D, E is 42 kg and the weight of F is equal to that of B What is the average weight of A, B, C D, E and F?

- a) 40-5 kg
- b) 40-8 kg
- c) 41 kg
- d) Cannot be determined as data is inadequate

Ans) c