

Section I

Questions 1 to 5 are based on the following passage:

Passage I

I suppose the vitality of a group, an individual, or a society is measured by the extent to which it possesses courage and above all, creative imagination. If that imagination is lacking our growth becomes more and more stunted, which is a sign of decay. What then is happening today? Are we trying to improve in this respect or are we merely functioning somewhere on the surface without touching the reality which is afflicting the world and which may result in political conflict, economic warfare or world war? So, when there are discussions on the concept of man as visualized in the Eastern Ideal or The Western Ideal, they interest me greatly from a historical point of view and from a cultural point of view, although I have always resisted this idea of dividing the world into the orient and occident, I do not believe in such divisions. There have, of course, been differences in racial and national outlook and in ideals but to talk of the east and west as such has little meaning. I can see the difference between an industrialized and a non-industrialized country. I think the difference, say, between India and Europe in the middle ages, would not have been very great and would have been comparable to the difference between any of the great countries of Asia today. I feel that we think roughly because we are misled in our approach. Differences have crept in and been intensified by this process of industrialization and mechanization which has promoted material well being tremendously and which has been a blessing to humanity. At the same time, it is corroding the life of the mind and thereby encouraging a process of self destruction. I am not for the moment talking or thinking about wars and the like we have seen in history. Races come up and gradually fade away in Asia, in Europe and other places. Are we witnessing the same thing today? It may be that this will not take effect in our lifetime. In the past anyway, one great consolation was that things happened only in one particular part of the world. If there was a collapse in one part of the world, the other part carried on. No part will be left to survive, as it could in older times. During the so called Dark ages of Europe, there were bright periods in Asia, in China, in India, in the Middle East and elsewhere. In the old days if progress was limited, disaster was also limited in extent and intensity. Today, when we have arrived at a period of great disaster and it is a little difficult for us to choose a middle way which would enable us to achieve a little progress and, at the same time to limit the scope of disaster.

That is the major question. A person who has to carry a burden of responsibility is greater troubled by the practical aspects of this question. Am I right in saying that the mental life of the world is in a process of deterioration, chiefly because the environment that has been created by the Industrial Revolution does not give time or opportunity to individuals to think? I do not deny that today there are many great thinkers but it is quite likely that they might be submerged in the mass of unthinking humanity. We are dealing with and talking a great deal about democracy and I have little doubt that democracy is the best of all the various methods available to us for the governance of human beings. At the same time, we are using today-by today I mean the last two decades or so, the emergence of democracy in a somewhat uncontrolled form. When we think of democracy, we normally think of it in the rather limited sense of the 19th century or the early 20th century use of the term. Owing to the remarkable technological growth, something has happened since then and meanwhile democracy has also spread. The result is that we have vast masses of human beings brought up by the Industrial Revolution, who are not encouraged or given an opportunity to think much. They live a life which, from the point of view of physical comfort, is incomparably better than it has been in any previous generation, but they seldom have a chance to think. And yet in a democratic system, it is this vast mass of human beings that will ultimately govern or elect those who govern.

1. Which one of the following statements is true according to the passage?
 - a) Vitality and courage endanger creative imagination.
 - b) Our attempts to grow are becoming more and more stunted.
 - c) Decadence stunts the faculty of imagination.
 - d) We are not attempting seriously enough to encourage the growth of creative imagination.
 - e) The mental life of a person is elevated.

2. According to the author, the present is characterized by
 - a) self destructive tendencies
 - b) great scope for disaster
 - c) localized progress
 - d) material progress
 - e) Spread of Democracy.

3. The problem facing us, as per the passage, is the choice between
 - a) extent of progress and scope of disaster
 - b) creativity and economic growth
 - c) spirituality and materialism
 - d) Eastern and Western Ideal
 - e) physical comfort and vitality

4. According to the passage, which one of the following statements is true about modern democracy?
 - a) It stifles the individually of human beings.
 - b) It is a product of Industrial Revolution.
 - c) It is a product of modern materialism.
 - d) It has engendered technological progress.
 - e) It is largely constituted of individuals who do not think.

5. We can conclude from the passage that

- a) the price of progress is very high
- b) an environment that supports progress and human individuality must be created.
- c) economic growth will have to be slowed down to give people time to think.
- d) Materialistic attitude is the root cause of disasters.
- e) industrialization has proved to be a curse to humanity.

Directions for question 6: Each question has four words marked A, B, C and D; of which two words are most nearly SAME or OPPOSITE in meaning. Choose one such pair from the alternatives given.

6. (A) Stupendous (B) Calm (C) Livid (D) Pretentious
- a) A-B b) A-D c) B-D d) A-C e) B-C

Directions for question 7: Each question consists of a group of sentences followed by a suggested sequential arrangement. Select the best sequence that forms a coherent paragraph.

7.

A. Once combined with traditional instruments and the banjo, Appalachian music began to take shape as a distinct musical genre.

B. The Appalachian style combined several different genres and instruments to create a distinctly different sound; for example, the fiddle, which came from the Scottish tradition, eventually combined with instruments such as the banjo, which was common in African-American songs.

C. Soon, instruments such as the mountain dulcimer, which is also known as the Appalachian dulcimer, and mandolin began to become prominent in the region.

D. Appalachian music provided a beginning for what would eventually become bluegrass music, country music, and old-time music, and elements of Appalachian music can be heard in all those genres.

- a) ABCD b) DBCA c) ACDB d) BCDA e) CBAD

Directions for questions 8 and 9: Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If you think that there is no error, please mark option e.

8.

- a) Solar evaporation of salt is widely practiced,
- b) potash is extracted from the Dead sea,
- c) and magnesium is produced by sea water
- d) along the American Gulf Coast.
- e) No Error

9.

- a) How to price higher education and
- b) how to ensure access
- c) are in the important policy challenges
- d) facing the country today.
- e) No Error

In Questions 10 and 11, complete the sentences with the most appropriate words.

The journalist (10)_____ the efforts of the drug squad to control drug peddling, claiming that they had actually (11)_____ the problem.

10. a) commended b) deprecated c) noted d) reported
e) suggested

11. a) absolved b) mollified c) exacerbated d) solved
e) delineated

Directions for question 12: Answer the questions based on the reasoning in the brief passages.

12. Cyber cafes are present everywhere and are highly helpful for people to access the internet and access information on any topic around the world. Clearly, the government should encourage the setting up of new Cyber cafes in all parts of the country.

Which of the following, if true, would pose the most serious doubts on the conclusion drawn above?

- a) There has been a drastic growth in the number of cyber crimes, most of which are known to take place in cyber cafes.
- b) With internet services now being available increasing at homes, it is illogical for the government to spend on setting up cyber cafes in the country.
- c) Cyber cafes are usually used for gaming purposes by youth and children, which often helps in the development of their mind and body by enhancing their negotiation and survival skills.
- d) Cyber cafes often also act as training centers, offering educational courses to everyone on the various applications of computers in real life.
- e) Cyber cafes are generating a lot of employment in the rural areas.

Directions for question 13: Each question consists of a group of sentences followed by a suggested sequential arrangement. Select the best sequence that forms a coherent paragraph.

13.

- A. Classical guitar strings include either clear treble strings, black trebles (sometimes red) or rectified trebles.
- B. Rectified trebles are engineered to have a highly consistent diameter along the length of the entire string and are generally considered to be warmer sounding.
- C. Most classical guitar strings today are made from nylon for a warm, full, melodic sound.
- D. Clear treble strings produce a traditional classical sound, while black/red trebles produce higher overtones and are more distinctive.

- a) BCDA b) ADCB c) BCAD d) DBAC e) CADB

Passage II

Questions 14 to 18 are based on the following passage:

In many underdeveloped countries, the state plays an important and increasingly varied role in economic development today. There are four general arguments, all of them related, for state participation in economic development. First, the entrance requirements in terms of financial and capital equipment are very large in industries, and the size of these obstacles will serve as barriers to entry on the part of private investors. One can imagine that these obstacles are imposing in industries such as steel production, automobiles, electronics, and parts of the textiles industry. In addition, there are what Myint calls "technical indivisibilities in social overhead capital." Public utilities, transport, and communication facilities must be in place before industrial development can occur, and they do not lend themselves to small-scale improvements. A related argument centres on the demand side of the economy. This economy is seen as fragmented, disconnected, and incapable of using inputs from other parts of the economy. Consequently, economic activity in one part of the economy does not generate the dynamism in other sectors that is expected in more cohesive economies. Industrialization necessarily involves many different sectors; economic enterprises will thrive best in an environment in which they draw on inputs from related economic sectors and, in turn, release their own goods for industrial utilization within their own economies. A third argument concerns the low-level equilibrium trap in which less developed countries find themselves. At subsistence levels, societies consume exactly what they produce. There is no remaining surplus for reinvestment. As per-capita income rises, however, the additional income will not be used for saving and investment. Instead, it will have the effect of increasing the population that will eat up the surplus and force the society to its former subsistence position. Fortunately, after a certain point, the rate of population growth will decrease; economic growth will intersect with and eventually outstrip population growth.

The private sector, however, will not be able to provide the one-shot large dose of capital to push economic growth beyond those levels where population increases to eat up the incremental advances. The final argument concerns the relationship between delayed development and the state. Countries wishing to industrialize today have more competitors, and these competitors occupy a more differentiated industrial terrain than previously. This means that the available niches in the international system are more limited. For today's industrializers, therefore, the process of industrialization cannot be a haphazard affair, nor can the pace, content, and direction be left, solely to market forces. Part of the reason for strong state presence, then, relates specifically to the competitive international environment in which modern countries and firms must operate.

14. What does the author suggest about the “technical indivisibilities in social overhead capital”?

- a) It is a barrier to private investment
- b) It enhances the development effects of private sector investment
- c) It leads to rapid technological progress
- d) It can prevent development from occurring
- e) takes care of the demand side of the economy.

15. According to the passage, the “low-level equilibrium trap” in underdeveloped countries results from

- a) poverty, unemployment and underdevelopment of the masses
- b) intervention of the state in economic development
- c) the tendency for societies to produce more than they can use
- d) the fragmented and disconnected nature of the demand side of the economy.
- e) the inability of market forces to overcome the effects of population growth

16. According to the author, a strong state presence is necessary

- a) to provide food for everyone
- b) to provide the capital needed to spur economic growth
- c) to ensure the livelihood of workers
- d) to ensure that people have more than what is necessary for subsistence
- e) to regulate the profit seeking tendencies of the private sector.

17. In the passage, the world ‘cohesive’ means

- a) containing many cohorts or groups
- b) modern and competitive
- c) naturally and logically connected
- d) containing many different sectors
- e) having many fragments

18. In the passage, the word 'imposing' means

- a) Something huge
- b) something that strikes a pose
- c) something that obtrudes on others
- d) to act with a delusive effect
- e) overbearing

In Questions 19 and 20, complete the sentences with the most appropriate words.

Even though the auditors ____ (19) ____ the accountant, his reputation, hitherto unblemished, was ____ (20) ____ by the allegations of fraud.

19. a) indicted b) betrayed c) vindicated d) castigated
e) accommodated

20. a) enhanced b) tarnished c) condoned d) excused
e) acknowledged

Directions for questions 21 and 22: Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If you think that there is no error, please mark option e.

21.

- a) Investment in
- b) higher education has high installments
- c) and can, therefore be
- d) financed by loans.
- e) No Error

22.

- a) Nuclear energy can be
- b) gained both through
- c) fission and
- d) fusion processes.
- e) No error

Directions for question 23: Answer the questions based on the reasoning in the brief passages.

23. All criminals must be treated with the harshest punishment to ensure they do not repeat their crime.

Which of the following, if true, would pose the most serious doubt on the conclusion drawn above?

- a) If the law is stern and strict and a proper awareness is made of the punishments, no such crime will take place.
- b) Studies have shown that majority of the criminals, who were offered guidance and counseling, and were taught a skill while they were serving time, did not go back to a life of crime.
- c) Criminals who are found guilty repeatedly, should be dealt with the harshest punishment not the ones with petty crimes.
- d) Capital Punishment is the irreversible punishment.
- e) Researchers have shown that most criminals who have been dealt with severely have landed up committing much worse crimes.

Directions for question 24: Each question consists of a group of sentences followed by a suggested sequential arrangement. Select the best sequence that forms a coherent paragraph.

24.

A. However, it may surprise many persons to find out that percussion goes beyond what they may think of as percussion instruments.

B. Most people understand that percussion has to do with musical instruments, such as drums.

C. In reality, percussion relates to any type of musical instrument that is used to produce sounds through means of striking, shaking, scraping or plucking the instrument.

D. This is because drums are often used to help maintain and accentuate the beat of a melody.

- a) CBDA b) BDAC c) DBAC d) ACDB e) DBCA

In Questions 25 and 26, complete the sentences with the most appropriate words.

The archaeologist, viewing the fragmentary remains of the ancient city, reflected on the ____

(25) ____ of human ____ (26) ____ .

- 25.** a) impermanence b) dearth c) durability d) remains e) fragility

- 26.** a) endeavour b) thought c) humility d) culture e) civilization

Directions for question 27: Answer the questions based on the reasoning in the brief passages.

27. In Mumbai, an investor who buys stocks in the depression will get maximum returns.

The statement above logically conveys which of the following?

- a) Buying stocks in the depression is the only way of maximizing returns in Mumbai.
- b) For maximizing returns an investor must not do anything in depression.
- c) An investor's record in the stock market will do little in Mumbai to get maximum returns.
- d) For maximum returns, an investor in Mumbai need not do anything else except buy stocks in the depression.
- e) Only in Mumbai it is possible to earn maximum returns in the depression.

Directions for question 28: Each question consists of a group of sentences followed by a suggested sequential arrangement. Select the best sequence that forms a coherent paragraph.

28.

A. Displays of sugar art appear in a wide variety of settings, from wedding cakes to store windows, with sugar art being especially common during the winter holiday season.

B. In order to do sugar art, people need training in working with sugar.

C. Sugar art is a specialty within the candy and pastry making field which involves using sugar to create complex shapes, scenes, textures, and patterns.

D. Artisans at the top of their field even attend sugar art competitions to pit their skills against those of others, and the displays at these events can be quite astounding.

- a) BCDA b) DCBA c) ACBD d) CBAD e) CDAB

In Questions 29 and 30, complete the sentences with the most appropriate words.

He was normally entirely ____ (29)____, but in the embarrassing situation in which he found himself he felt compelled to ____ (30)____.

- 29.** a) equable b) considerate c) forthright d) alone e) taciturn

- 30.** a) concede b) prevaricate c) capitulate d) speak e) procrastinate

Directions for question 31: Each question has four words marked A, B, C and D; of which two words are most nearly SAME or OPPOSITE in meaning. Choose one such pair from the alternatives given.

- 31.** A. Shambles B. Flexible C. Periodic D. Organized

- a) A-C b) B-C c) A-D d) C-D e) B-D



Directions for question 32: Answer the questions based on the reasoning in the brief passages.

32. Recent research has shown that a drug by the name of amphetamine has the ability to enhance memory power. Clearly, all children who are about to appear for their examinations, must take amphetamine regularly.

Which of the following, if true, would most weaken the argument above?

- a) Intelligence and hard work are of more importance than a memory enhancing drug.
- b) Any drug must always be taken on prescription.
- c) Alternate studies have shown that amphetamine contains certain proportions of chemicals, which are acceptable to an adult brain, but tend to alter brain chemicals in children and young adults, causing tremendous harm.
- d) Except for a few who have a weak memory power, not all should take the drug amphetamine.
- e) Amphetamine can cause feelings of nausea and fatigue among children

Section II

Directions for questions 33 to 40: Answer the following questions independently.

33. A villager purchased a horse and a donkey at a package price of Rs. 24000 from the village fair. He subsequently got an offer to sell the horse at a price of Rs. 17500, which he did. At what price must he now sell the donkey to make an overall 20% profit on the entire transaction?

- a) Rs. 12000 b) Rs. 11500 c) Rs. 11000 d) Rs. 11300 e) Rs. 11800

34. The average weight of 8 people decreases by 2 kgs, when two new people are added to the group. If the difference between the original weight and new weight is 36 kgs, find the new total weight of the people.

- a) 260 b) 264 c) 270 d) 272 e) 275

35. The distance between Shyam's house and Suman's house is 16 kms. Shyam left his house at 7 a.m. and headed towards Suman's house at the rate of 5 km per hour. Suman left her house at 8 a.m. and headed towards Shyam's house at the rate of 6 km per hour. At what time will they meet?

- a) 11 a.m. b) 2 p.m. c) 10 a.m. d) 9 a.m. e) 12.00 noon

36. In a class of 15 students there are 7 girls. In how many ways can these 15 students be arranged in a row such that all 7 girls do not sit together?

- a) $15! - 9!$ b) $15! - 9! \times 8!$ c) $15! - 8! \times 7!$ d) $15! - 9! \times 8! \times 7!$ e) $15! - 9! \times 7!$

37. Vishal is reading a book, whose pages are numbered 1 to 25. If he reads a page at random, then find the probability that the page has a number which is a multiple of 5 or 6.

- a) 0.37 b) 0.38 c) 0.33 d) 0.36 e) 0.35

38. If square of Ram's expenditure is inversely proportional to square of his salary and when his Expenditure=20000 his salary = 40000. Find his expenditure when salary = 80000

- a) 10000 b) 30000 c) 60000 d) 20000 e) 40000

39. A can do some work in 24 days, B can do it in 32 days and C can do it in 60 days. They start working together. A left the job after 6 days and B left after working for 8 days. How many more days are required to finish the job?

- a) 30 days b) 22 days c) 26 days d) 25 days e) 28 days

40. In a three digit number ABC, if the number is reversed, it increases by 198. Also, if the tenth and unit's place digits are reversed, the number increases by 9. If hundredth and tenth place digits are reversed, the number increases by 90. What is the number?

- a) 132 b) 321 c) 213 d) 312 e) 123

Direction for question 41: The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement (s) is / are sufficient / necessary to answer the questions.

41. How much marks did Mohan obtain in Hindi?

- A. The average marks obtained by Mohan in Hindi, Mathematics and Biology are 72.
- B. The total marks obtained by him in Hindi and Mathematics are 129.
- C. The total marks obtained by him in History and Biology are 143.

- a) Only A and B together are sufficient
- b) Only A and C together are sufficient
- c) Only A and B or C are sufficient
- d) Only B and A or C are sufficient
- e) All A, B and C even together are not sufficient.

Directions for questions 42 to 47: The following table shows the timings of the two trains running between Mumbai and Pune. Study the table and answer the question that follow:

| Station | | Train A | Train B | |
|------------|---|---------|---------|--|
| Mumbai CST | d | 07:50 | 12:50 | (Distance between Mumbai and Pune is 192 kms) (d= departure, a=arrival) |
| Dadar | a | 08:00 | 13:00 | |
| Dadar | d | 08:02 | 13:02 | |
| Kalyan | a | 08:50 | 13:40 | |
| Kalyan | d | 08:55 | 13:47 | |
| Karjat | a | 09:38 | 14:38 | |
| Karjat | d | 09:42 | 14:40 | |
| Lonavala | a | 10:32 | 15:27 | |
| Lonavala | d | 10:35 | 15:32 | |
| Pune | a | 11:55 | 17:10 | |

42. The ratio of total stoppage time of train A to that of train B is

- a) 2 : 3 b) 3 : 2 c) 3.5 : 4 d) 4 : 3 e) 2.5 : 3

43. The ratio of the average speed of train A to train B is

- a) 1.1 b) 1.06 c) 0.9 d) 0.95 e) 1.14

44. The highest difference between the speeds of the two trains in the stretch of

- a) Lonavala – Pune b) Karjat – Lonavala c) Kalyan – Karjat d) Dadar – Kalyan
e) Cannot be determined

45. The longest stop at any station is

- a) Train A at Kalyan b) Train A at Karjat c) Train B at Kalyan d) Train B at Lonavala
e) Train B at Karjat

46. If the speed of the train A is increased by 20% in all sections, keeping its stoppage time unchanged, when will it reach Pune if the departure time from Mumbai CST is as before?

- a) 11 : 25hrs b) 11 : 04hrs c) 11 : 08hrs d) 11 : 32hrs e) 11 : 17 hrs

47. The train B started from Pune for Mumbai CST at the same time as train A's departure from Mumbai CST. If the train B maintained the same speed in its reverse journey, at what time would train A and train B meet each other, if they were to not halt at any station?

- a) 9 : 49hrs b) 10 : 10hrs c) 9 : 47 hrs d) 9 : 57hrs 10 : 05 hrs

Directions for questions 48 to 52: Answer the following questions independently.

48. Given that $X = \left(\frac{-5}{4}\right)^2$, $Y = 1.3$, $Z = 1.2^2$. Find out which of the following statement is true.

- a) $Y > X > Z$ b) $Y < Z < X$ c) $Y > Z > X$ d) $Z > Y > X$ e) None of these

49. 78% of the chocolates available were distributed equally among students. The remaining chocolates were defective. Find the number of students if 96 chocolates were defective and each student received 6% of the total chocolates distributed.

- a) 17 b) 20 c) 18 d) 19 e) 21

50. A tank can be filled by pipes A and B in 10 minutes and 12 minutes respectively. Another pipe can drain out a full tank in 20 minutes. How much time will it take to fill the whole tank if all the taps are open?

- a) 15 minutes b) 8 minutes c) 5 minutes d) 7 minutes e) None of these

51. A boy is trying to ascend a slippery pole, 14 m high. He ascends 2 m in the 1st minute and slips down 1 m in the next minute. If this process continues, how much time will it take him to go to the top (in minutes)?

- a) 13 b) 12 c) 24 d) 25 e) 26

52. Two equal glasses are 75 % and 50% are full of milk. The remaining 25 % and 50% in each glass is filled with water. Both the glasses are now mixed and filled in bigger jar whose volume is double of glass volume. Find the ratio of milk to water now.

- a) 4 : 3 b) 5: 3 c) 5 : 4 d) 7: 5 e) 4 : 3

Direction for question 53: The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement (s) is / are sufficient / necessary to answer the questions.

53. What is the ratio of the present ages of X and Y?

- A. The ratio between the ages of X and Y after 10 years is 11 : 15.
 B. The present age of Y is $66\frac{2}{3}\%$ more than that of X.
 C. The product of the present ages of X and Y is 240 years.

- a) Any of them
 b) Only B or A and C together
 c) Any two of them
 d) Only B
 e) The question cannot be answered by even all three statements together.

Directions for questions 54 to 58: Answer the questions based on the information given below.

The following table gives production, self-consumption and sales of item X (in number of units) for a period of 7 days.

| Day | Production | Self-consumption | Sales |
|-----|------------|------------------|-------|
| 1 | 1,150 | 275 | 825 |
| 2 | 1,200 | 350 | 890 |
| 3 | 1,300 | 225 | 985 |
| 4 | 1,100 | 300 | 960 |
| 5 | 1,200 | 260 | 850 |
| 6 | 1,400 | 280 | 1,000 |
| 7 | 1,250 | 350 | 925 |

- a) Self-consumption gets first priority on production.
- b) Godown capacity is limited and not more than 100 units can be stored. Any excess units of stock have to be disposed off.
- c) There is an agreement with the customers for a guaranteed supply and hence in case of stockouts, the item has to be supplied by purchasing from outside.

54. What will be the total stock storage cost for all 7 days, if storage cost per unit per day is Rs.5?

- a)Rs.2,325 b)Rs.2,675 c)Rs.2,375 d)Rs.2,225 e) Rs.2,125

55. Production planning was done on the estimates of average self-consumption of 275. What is the difference between actual self-consumption average and estimated average?

- a)Actual consumption lesser by 18.
- b)Actual consumption average higher by 16.
- c)Estimated average higher by 16.
- d)Actual consumption average higher by 20.
- e) None of the above

56. Since supply to customers is guaranteed, in case of stockouts, items have to be supplied by buying from outside, what will be loss on this account, if loss incurred on buying from outside is Rs.25 per unit?

- a)Nil b)Rs.1,500 c)Rs.1,200 d)Rs.1,750 e) Rs. 2,000

63. X can finish a job in 40 days. Y is 60% more efficient than X. How much time will Y take?

- a) 25 days b) 24 days c) 16 days d) 20 days e) 22 days

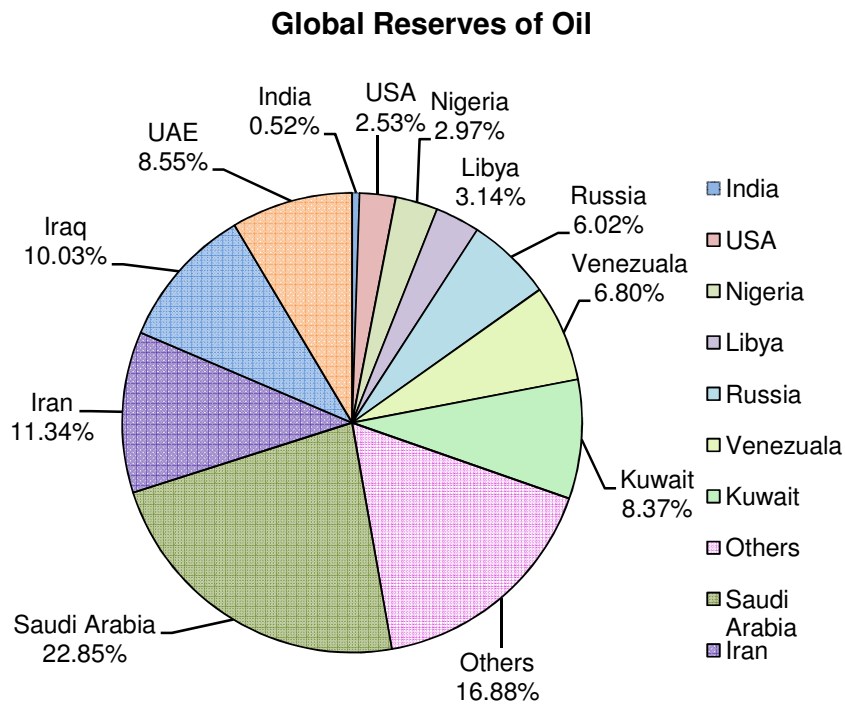
Direction for question 64: The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement (s) is / are sufficient / necessary to answer the questions.

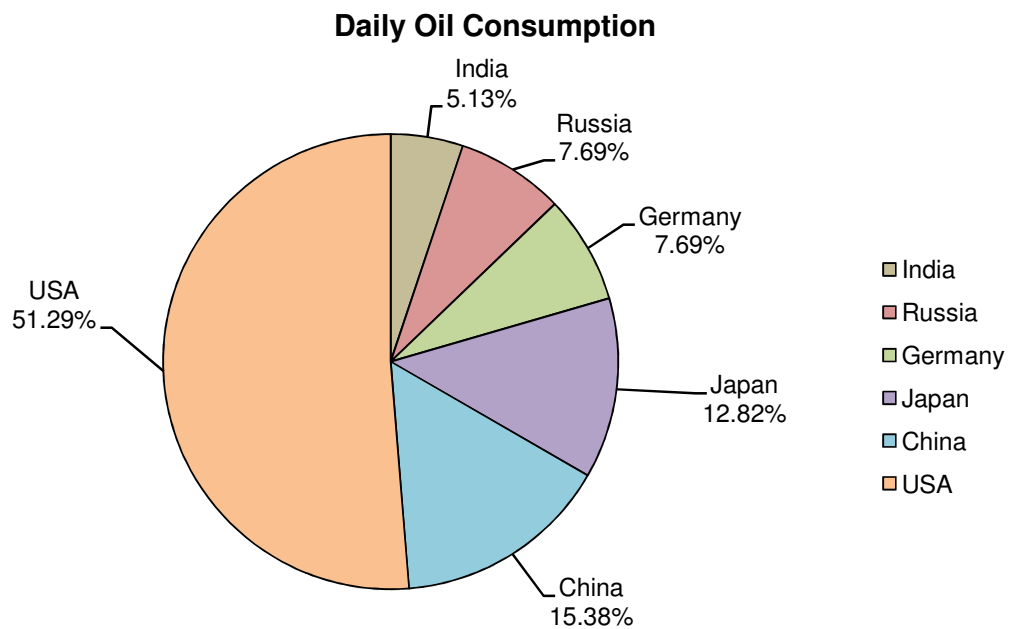
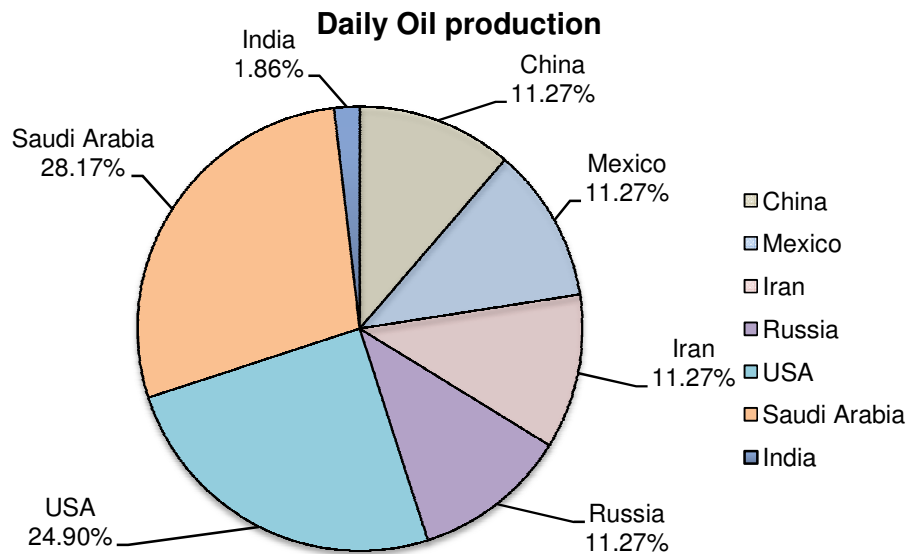
64. Find the length of the side of a square

- A. Total cost of flooring the square is Rs. 1,000 at the rate of Rs. 40 per square meter.
 B. A rectangle whose perimeter is 20 m is equal to the perimeter of the square.
 C. A square of area equal to 50 sq. m can be made on the diagonal of the given square.

- a) Any of them b) Any two of them c) Either B or C only d) Either A or B only
 e) All three of them

Directions for questions 65 to 68: Refer to the graph below.





65. If the estimated global reserves of oil are 1146.49 billion barrels, the level of reserves located in the USA in billion barrels would be approximately

- a) 29 b) 34 c) 36 d) 98 e) 45

66. The daily production and consumption figures of the USA are 8.84 and 20 million barrels respectively. Assuming that these levels remain constant, how long would the oil reserves in the USA last (in terms of completed number of years)? year = 360 days, global reserves = 1146.49 billion barrels)

- a) 4 yrs b) 6 yrs c) 8 yrs d) 9 yrs e) 7 yrs

67. The daily production and consumption figures of India are 0.66 and 2.2 million barrels. For which of the following countries is the positive difference between consumption and production the lowest?

- a) USA b) India c) China d) Russia e) Both c and d)

68. Which of the following is true?

- a) Saudi Arabia and USA are the highest consumer and producer respectively.
b) Saudi Arabia and USA are the highest producer and consumer respectively.
c) Russia is the lowest producer and consumer.
d) Russia is the highest producer
e) None of the above.

Direction for question 69: The following question is accompanied by three statements (A), (B), and (C). You have to determine which statement (s) is / are sufficient / necessary to answer the questions.

69. A company has two kinds of employees supervisor and clerks. The total monthly salary of the employees is Rs. 2,85,000. What is the total number of employees in that company?

- A. The ratio of the number of supervisor to that of clerk in the company is 4 : 5.
B. The total monthly salary of all the supervisors is 28% more than that of all clerks.
C. 20% of the clerk's monthly salary is Rs. 250.

- a) Only A and B together
b) Only A and C together
c) Only B and C together
d) A, B and C together
e) Question can't be answered even after using all the information

Directions for questions 70 to 74: Answer the questions based on the information given below.

70. Which of the following has even number of factors?

- a) $a^4b^6c^4d^2$ b) $a^2b^2c^2d^2$ c) $a^2b^3c^2d^4$ d) $a^2b^4c^6d^4$ e) None of these

71. A speaks truth in 60% cases and B in 40% cases. An event occurs. Both give their own statements. What are the chances that they will give contradictory statements?

- a) 50% b) 52% c) 45% d) 58% e) 48%

72. In a mixed collection of peacocks and deer, if legs are counted they are 40 but if heads are counted, they are just 15. How many peacocks are there?

- a) 5 b) 7 c) 8 d) 9 e) 10

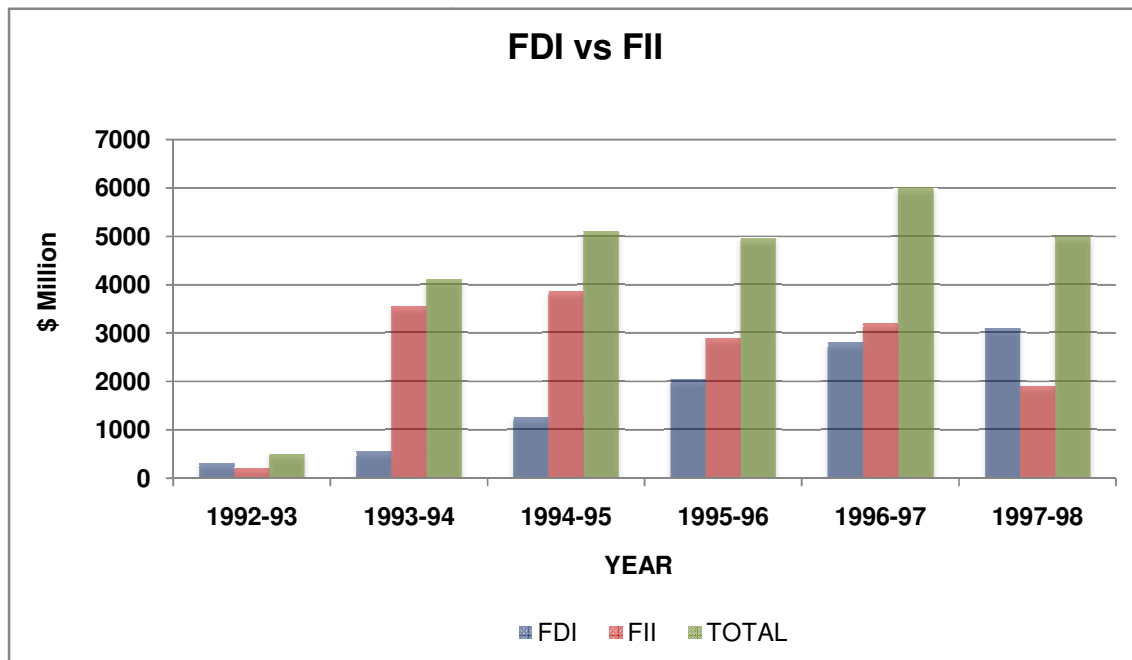
73. One-eighth of a number is 41.5. What will 69% of that number be?

- a) 229.08 b) 225.76 c) 219.12 d) 232.4 e) 235.62

74. Samarth started a business investing Rs 55,000. After 4 months Vishal joined him with a capital of Rs 40,000. At the end of the year the total profit was Rs 33,957. What is the difference between the share of profits of Samarth and Vishal?

- a) Rs 11,088 b) Rs 22,781 c) Rs 11,781 d) Rs 22,869 e) Rs. 12,541

Directions for Questions 75 to 79: Refer the data below to answer the following questions.



75. FII flows recorded negative growth rates in

- a) One year b) Two years c) Three Years d) Four Years e) Five Years

76. FDI flows recorded highest growth between

- a) 1992-93 and 1993-94
- b) 1993-94 and 1994-95
- c) 1994-95 and 1995-96
- d) 1995-96 and 1996-97
- e) 1996-97 and 1997-98

77. FDI flows were greater than FII flows in

- a) 1992-93 and 1993-94
- b) 1996-97 and 1997-98
- c) 1993-94 and 1997-98
- d) 1992-93 and 1995-96
- e) 1992-93 and 1997-98

78. Over the years which of the following flows are highly volatile?

- a) FII flows
- b) FDI flows
- c) Total flows
- d) both FII and Total
- e) both FDI and Total

79. The difference between FII and FDI flows is the maximum in the year

- a) 1992-93
- b) 1993-94
- c) 1994-95
- d) 1995-96
- e) 1996-97

Directions for question 80: The following questions are accompanied by three statements (A), (B), and (C). You have to determine which statement (s) is / are sufficient / necessary to answer the questions.

80. Rajnish buys 30 books and 65 pens. What money does he have to pay for this?

- A. At a profit of 20% he sells all the objects for Rs.3,828.
- B. The CP of one book and one pen is Rs. 90.
- C. The difference of sum and difference of buying price of one pen and one books is Rs. 28.

- a) Only A alone is sufficient
- b) B and C together are sufficient
- c) A alone or B and C together are sufficient
- d) All together are necessary
- e) None of the statements either individually or together are sufficient

Section II

Direction for questions 81 to 84: Study the information given below and answer the questions.

A word arrangement machine, when given a particular input, rearranges it using a particular rule. The Following is the illustration and the steps of the arrangement.

INPUT: lemon apple choco college girl dreams rooms book calf

STEP1: choco apple lemon college girl dream calf book room

STEP 2: lemon apple choco dream girl college room book calf

STEP 3: calf lemon apple book choco college room girl dream

STEP 4: apple calf lemon book choco college dream room girl

STEP 5: lemon calf apple college choco book girl room dream

STEP 6: dream lemon calf room apple book girl Choco College

81. Mark the option which will be Step 10 for the given input

- a) calflemondreamroomapplebookcollegechocogirl
- b)applecalflemonbookchococollegedreamroomgirl
- c)lemoncollegedreamchococalf roombookgirl apple
- d)dreamcollegelemonroomcalfchoco apple girlbook
- e) None of the above

82. Indicate the step number for which the following will an output dream lemon calf book apple room girlchococollege

- a) Step 7
- b) Step 8
- c) Step 9
- d) Step 12
- e) None of these

83. Mark all the arrangements that do not fall between step numbers 11 and 15

- (i)choco book dream calf college lemon apple girl room
- (ii)book dream college girl lemon calf apple room choco
- (iii)book dream college room lemon girl apple calf choco
- (iv)college dream book girl lemon calf choco room apple

- a) Only (i) and (ii)
- b) Only (ii) and (iii)
- c) Only (i), (ii) and (iv)
- d) Only (i)
- e) None of these

84. Which of the following two arrangement which will fall as consecutive steps at any time.

- (i) calf lemon dream room apple book college choco girl
- (ii) choco book dream calf college lemon apple girl room
- (iii) book dream college girl lemon room apple calf choco
- (iv) college dream book girl lemon room choco calf apple

- a) (i) and (ii) b) (iii) and (iv) c) (i) and (iii) d) (ii) and (iii) e) None of these

Directions for question 85: Facts are those statements which deal with pieces of information that one has heard, seen or read, and which are open to discovery or verification.

Which of the following sentences can be labelled Facts?

85.

A. The Australian airline Qantas has grounded its entire global fleet in reaction to what it claims are 'unreasonable' union demands over pay and conditions.

B. "This course of action has been forced on us because of the damage done by three unions," the transport minister, Anthony Albanese, said.

C. Qantas has been in dispute with three unions over pay and conditions.

D. "This is quite an extraordinary decision for Qantas management to take," he said.

- a) Only A b) C and A c) D and A d) Only C

Directions for question 86: In the question below are given two statements, numbered I and II.

Mark :

- a) if statement no. I is the only inference
- b) if statement no. II is the only inference
- c) if both statement no. I and II are the inferences
- d) if neither of the statement is the inference

86. With a growing number of influential men and their mistresses turning out to be a social problem in China, a group of agonized wives have joined hands to fight the menace and help women caught with unfaithful husbands.

What can be inferred from the following?

- I. Monogamy is a preferred way of living in the Chinese culture.
- II. Influential men will now be taught a lesson.

Directions for questions 87 to 91: Answer the following questions independently.

87. How many meaningful five-letter words can be formed using the second, third, sixth, seventh and ninth letters of the word DOCUMENTARY?

- a) None b) One c) Two d) Three e) Four

88. In a certain code language INFORMAL is coded as PGOJQLBM. What will be the code for TOUCHING in the same code language?

- a) DVUPGOHH b) DVPUGHOH c) DVUPGHHO d) DVPUGHHO e) DVPUOHOH

89. In a certain code language EFFICIENT is coded as TCIFIFENE. What will be the code for BIOGRAPHY in same code language?

- a) YRGIAOBHP b) YRAOGIPHB c) YRGIAPBHO d) YRAOGIPBH
e) Cannot be determined

90. If all letters of the English alphabet are written in the reverse order, i.e., from Z to A and the place value of Z is 1 and that of A is 26, then what will be the sum of the place values of all the letters in the word TOY?

- a) 19 b) 20 c) 21 d) 17 e) 18

91. Find the code for the given word from the table given below.

YATCH

| | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| 1 | T | B | K | Z | A |
| 2 | B | Y | U | H | Q |
| 3 | R | G | P | T | H |
| 4 | A | O | C | R | I |
| 5 | C | E | W | Y | M |

| | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|
| 5 | N | C | F | F | Y |
| 6 | A | V | Q | T | P |
| 7 | H | D | Y | M | U |
| 8 | T | L | X | C | J |
| 9 | J | H | V | S | A |

- a) 2299118878 b) 59 41 85 43 96 c) 7765343275 d) 5415685667
e) None of these

Directions for question 92: In each of the questions below are given two conclusions, numbered I and II.

Mark

- a) if statement no. I is the only follows
- b) if statement no. II is the only follows
- c) if both statement no. I and II are the follow
- d) if neither of the statement is the follows

92. Statement :

Some almonds are raisins
All raisins are walnuts

Conclusion :

- I. Some almonds are walnuts
- II. Some walnuts are almonds

Directions for question 93: Below in the question are given two statements (A) and (B). One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.
Mark answer:

- a) if statement (A) is the cause and statement (B) is its effect.
- b) if statement (B) is the cause and statement (A) is its effect.
- c) if both the statements (A) and (B) are effects of independent causes.
- d) if both the statements (A) and (B) are effects of some common cause.

93.

A. There is unprecedented increase in teenage pregnancy in metro cities in comparison to the previous decade.

B. Government is thinking about changing its approach towards imparting sex education at the school level and making it more informal than didactic as it has been in past decades.

Directions for questions 94 to 97: Answer the questions based on the information given below.

There is an amusement park in a city. The best item present in the park is a Giant Wheel ride. So all the people are attracted to try it. The giant wheel has exactly 8 capsules A, B, C, D, E, F, G and H for accommodating people. The 8 capsules are equidistant on the circular wheel. When the observer from ground stands in front of the wheel and looks at it, he would observe that the capsules on the Giant wheel are moving in a clockwise direction. The giant wheel only completes one single round.

Following additional information is given for one single round:

- i) F is vertically above H in the left half of the wheel in a particular position.
- ii) D immediately follows E and E immediately follows B at a particular point on the circumference.
- iii) In the initial position, when E is on the left half of the wheel, A is the top most capsule and G is the bottom most capsule.

94. Which capsule reaches the bottom 1 step after B leaves the top?

- a) A b) D c) C d) F e) G

95. Which capsule is at the diametrically opposite end of C?

- a) F b) D c) B d) E e) H

96. Which capsule reaches the bottom most point when H reaches the top most point?

- a) B b) F c) C d) D e) A

97. What is D's position when half round is completed?

- a) Just above the bottom most point in left half
- b) Just below top most point in right half
- c) Just above the bottom most point in right half
- d) Just below top most point in left half
- e) None of the above

Directions for question 98: In the question below are given two statements, numbered I and II.

Mark :

- a) if statement no. I is the only inference
- b) if statement no. II is the only inference
- c) if both statement no. I and II are the inferences
- d) if neither of the statement is the inference

98. Man-animal conflict, or the conflict between man's increasing demands with the passage of time and the bare needs of wildlife to survive, was the subject matter of a submission in the legislative Assembly by I.C. Balakrishnan, MLA, on Monday.

I. There have been recent incidents of man animal conflict in the state.

II. Mr I.C. Balakrishnan, can foresee this issue cropping up in the near future and is concerned about his area

Directions for question 99: In each of the questions below are given two conclusions, numbered I and II.

Mark

- a) if statement no. I is the only follows
- b) if statement no. II is the only follows
- c) if both statement no. I and II are the follow
- d) if neither of the statement is the follows
- e) If either statement I or II follows.

99.Statement :

Some monkeys are apes.
Some apes are Gorillas.

Conclusion :

- I. Some Monkeys are Gorillas
- II. Some apes are not Gorillas

Directions for questions 100 and 102: Answer the following questions independently.

100. How many such pairs of letters are there in the word EXECUTION, each of which has as many letters between them in the word as they have between them in the English alphabet?

- a) Two
- b) Three
- c) Four
- d) Five
- e) Six

101. In a certain code DESIREABLE is written as JTFEQFMCBF how is CREATIVE written in that code?

- a) BQDZUJWF
- b) ZDQBUJWF
- c) ZDQBFWJU
- d) BQDZFWJU
- e) ZDQBJUWF

Direction for Questions 102 and 103: These questions are based on the following arrangement:

D 5 4 I H ∞ \$ K E 3 L B @ A R M 1 6 F % J £ 2 7 C G 9

102. If all the digits are dropped from the above arrangement, which of the following will be fourth to the left of seventh from the right end?

- a) B b) @ c) L d) A e) R

103. If the position of ten elements from the right end is reversed which of the following will be fifth to the right of thirteenth from the right?

- a) % b) F c) C d) G e) 6

Directions for question 104: In each question below is given a statement followed by two courses of action numbered I and II. On the basis of the information given in the statement, decide which of the suggested courses of action logically follow(s). Give answer:

- a) if only I follows.
b) if only II follows.
c) if both I and II follow.
d) if Neither I or II follows.
e) If either I or II follows

104. Statement :

Many medical and engineering graduates are taking a management courses

Courses of action:

- I. All the professional should be advice to retain from taking up search job.
II. Management Instituted should me wormed against giving admission to professional students.

Directions for question 105: Facts are those statements which deal with pieces of information that one has heard, seen or read, and which are open to discovery or verification.

Which of the following sentences can be labeled Facts?

105.

A. As awards season gets under way and the inevitable controversies unfold.

B. You want people to win because you admire them, but you hate them for winning because it means you're not.

C. Losing face is something that's hard for people, and even though our competition is judged anonymously, people still enter under a pseudonym.

D. It makes the judges nervous because something you're dismissing could be by your biggest hero.

a) Only A b) C and A c) D and A d) Only C e) Only B

Directions for questions 106 to 109: Answer the questions based on information given below.

Four people of different states have 4 cubicles labelled A, B, C, D (not necessarily in that order) adjacent to each other, in a row. Each person has a different favourite clothing item – pyjama, kurta, lungi and dhoti (not necessarily in that order). The following additional information is given:

1) The Punjabi works in Cubicle B.

2) The Tamilian wears a pyjama.

3) The Bengali works in the first cubicle on the left.

4) In the second cubicle from the right a lungi is worn.

5) The Bengali works adjacent to Cubicle A.

6) The Gujarati wears a dhoti.

7) A Pyjama is worn in Cubicle A.

8) Cubicle D is to the right of Cubicle B.

106. A lungi is worn by the _____.

a) Bengali b) Punjabi c) Tamilian d) Gujarati e) Cannot be determined

107. The Bengali wears a _____.

a) lungi b) kurta c) pyjama d) dhoti e) Cannot be determined

108. The Bengali's cubicle is labelled _____.

a) C b) D c) A d) B e) Cannot be determined

109. Which of the following is not true?

- a) A lungi is worn in Cubicle B. b) The Tamilian works in Cubicle A.
c) The Gujarati works in a corner cubicle. d) The Tamilian works next to the Gujarati.
e) None of these

Directions for questions 110 to 113: Answer the following questions independently.

110. 'A \$ B' means 'A is wife of B'.
'A # B' means 'A is son of B'.
'A % B' means 'A is father of B'.
'A @ B' means 'A is sister of B'.

Which of the following expressions represents the relationship 'T is brother of H'?

- a) H@T%K b) T@H%K c) H#K%T d) H@K%T e) None of these

111. Find the code for the given word from the table given below.

JINGLE

| | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| 1 | N | T | H | I | E |
| 2 | L | J | Y | Q | R |
| 3 | D | U | G | N | M |
| 4 | I | E | K | J | H |
| 5 | W | G | B | L | S |

| | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|
| 5 | J | C | D | N | Z |
| 6 | I | E | T | L | A |
| 7 | K | L | Z | G | O |
| 8 | N | P | V | E | J |
| 9 | G | X | I | R | F |

- a) 554185955443 b) 446579337666 c) 891411527715 d) 22 97 34 78 21 88 e) None of these

112. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- a) Jug b) Pitcher c) Tumbler d) Saucer e) Bottle

113. 'MQ' is related to 'PU' and 'FI' is related to 'IM' in the same way as 'SV' is related to ____:

- a) VY b) UY c) TX d) VZ e) TY

Directions for question 114: In each of the questions below are given two statements, numbered I and II.

Mark

- a) if statement no. I is the only assumption
- b) if statement no. II is the only assumption
- c) if both statement no. I and II are the assumptions
- d) if neither of the statement is the assumption
- e) If either statement I or II is the assumption

114. Only 30% of locals believe they have requisite expertise to deal with extreme weather conditions, report finds. The given report rests on which assumption?

- I. Most of the locals interviewed are fishermen who have complete knowledge about the weather.
- II. Most of the locals interviewed are local authorities who have complete knowledge about the weather equipment.

Directions for question 115: In each question below is given a statement followed by two courses of action numbered I and II. On the basis of the information given in the statement, decide which of the suggested courses of action logically follow(s). Give answer:

- a) if only I follows.
- b) if only II follows.
- c) if both I and II follow.
- d) if Neither I or II follows.
- e) If either I or II follows

115. Statement:

On an average above 100 children's are reported missing every day by their families in a city like Mumbai.

Courses of action :

- I. Police Force should be given soft skills training to deal with such families.
- II. The Police force should be given special training so that they are always on a watch out for unaccompanied children.

Directions for questions 116 to 118: Answer the questions based on information given below.

The After-Sales Service Manager of White Goods Appliances Limited is making up an assignment roster for three Technician Teams in the city of Indraprastha. Each team will be assigned to one of the sectors of the city: Sector Pratham, Sector Dwitiya, and Sector Tritiya. Each team will consist of two of the following technicians: Nagabhushanam, Phaneesh, Ramaswamy, Swaminathan, Tirthankar, and Visheshwar. Each technician will be assigned to exactly one team. Ramaswamy, Tirthankar and Visheshwar have each completed a special electro-mechanical appliance maintenance training programme; Nagabhushanam, Phaneesh and Swaminathan have not. Nagabhushanam, Phaneesh and Ramaswamy, each have at least five years of job experience; Swaminathan, Tirthankar and Visheshwar do not. The Service Manager must observe the following restrictions in making up the assignment roster:

- Each team must include at least one technician who has completed the special training.
- Each team must include at least one technician who has at least five years of job experience.
- Nagabhushanam must be assigned to Sector Pratham or Sector Dwitiya.

116. If Phaneesh is assigned to Sector Dwitiya, which of the following must be true?

- a) Tirthankar is assigned to Sector Pratham.
- b) Swaminathan is assigned to Sector Tritiya.
- c) Visheshwar is assigned to Sector Dwitiya.
- d) Visheshwar is assigned to Sector Tritiya.
- e) None of these

117. The Service Manager cannot make an acceptable roster that assigns:

- a) Phaneesh to Sector Pratham and Visheshwar to Sector Tritiya.
- b) Ramaswamy to Sector Pratham and Tirthankar to Sector Dwitiya.
- c) Swaminathan to Sector Pratham and Nagabhushanam to Sector Dwitiya.
- d) Nagabhushanam to Sector Dwitiya and Phaneesh to Sector Tritiya.
- e) None of these

118. If Tirthankar is assigned to Sector Tritiya, which of the following must be true?

- a) Phaneesh is assigned to Sector Pratham.
- b) Ramaswamy is assigned to Sector Dwitiya.
- c) Tirthankar is Nagabhushanam's partner.
- d) Nagabhushanam is Visheshwar's partner.
- e) None of these

Directions for question 119: Below in the question are given two statements (A) and (B). One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements. Mark answer:

- a) if statement (A) is the cause and statement (B) is its effect.
- b) if statement (B) is the cause and statement (A) is its effect.
- c) if both the statements (A) and (B) are effects of independent causes.
- d) if both the statements (A) and (B) are effects of some common cause.
- e) If statement (A) and (B) are independent causes.

119.

A. There was a position of extra bats and in same cases needs for asthma patients in hospital.

B. There was a drastic increasing in the number of asthma patients in this Diwali.

Directions for question 120: In each of the questions below are given two statements, numbered I and II.

Mark

- a) if statement no. I is the only assumption
- b) if statement no. II is the only assumption
- c) if both statement no. I and II are the assumptions
- d) if neither of the statement is the assumption
- e) If either I or II follows

120. Solar subsidy cuts will hit community schemes the hardest . This statement assumes which of the following?

- I. Community schemes are totally dependent on Solar subsidy.
- II. Solar subsidy has a negative relationship with community schemes.