

English Language

Directions (1-7): The passage given below has certain words or phrases highlighted and blanks that might need to be filled. There are questions that follow the passage. Read the same carefully and mark the most appropriate options as your answers

The global health crisis actually offers a unique opportunity to rethink prevailing business models in the hospitality space. The idea is to develop experiences that satisfy domestic as well as local needs of the communities. The Federation of Hotel & Restaurant Associations of India (FHRAI) further highlighted that due to the financial losses during the first wave, almost 40 per cent of hotels and restaurants in India have shut down permanently. About 20 per cent haven't _____ back fully and the remaining a hit of over Rs 1.30 lakh crore in revenue for the fiscal year 2020-21 due to the impact of the ongoing global health crisis. In such a situation, continue to run in losses. Overall, the Indian hotel industry has taken the hospitality sector is seeking more support from the Government to stay afloat. So far, the only **respite** has been the Government's decision to extend the Emergency Credit Line Guarantee Scheme (ECLGS) to the sector, under which the finance ministry recently removed the ceiling of Rs 500 crore in loan outstanding to get credit. Besides, the industry is pinning its hope on the revival in domestic travel seen after the waning of the second wave while wishing there is no third wave. Hence, stepping up to understand and respond to changing

consumer behaviour as well as adopt new practices will be essential to the recovery of the hospitality sector.

Though the suspension of global tourism has hit the Indian hospitality industry hard, it's time to shift the larger focus on the domestic demands. Millions of travelers, who are unable to travel overseas, would look for quality domestic alternatives. So, focusing on internal tourism is the way forward. With the work-from-home working model, employers should consider extending their employees the opportunity to take a break and unwind - as a 'staycation' or a 'workcation'. Resorts or hotels could remodel and renovate to address workcation needs of employees. A continued focus on guest's safety, hygiene and sanitization is important to instill confidence among guests in a post COVID-19 World. The global health crisis actually offers a unique opportunity to rethink prevailing business models in the hospitality space. The idea is to develop experiences that satisfy domestic as well as local needs of the communities. Adaptability is the key for survival -- and those who are seizing this opportunity are further enabling the inclusive and sustainable growth of the sector.

1) Which of the following is the best synonym to the word '*respite*' as used in the passage?

- A. Solution
- B. Breather
- C. Recess
- D. Issue
- E. None of the above

2) What is the tone of the author in the initial lines of the passage?

- A. Critical
- B. Skeptical
- C. Optimistic
- D. Cautionary
- E. Alarming

3) Which of the following statements is not true as per the passage?

- A. Integrating facial recognition technology within the hotels or resorts will primarily speed up the check-in process
- B. Reducing the amount of human contact that is needed in the age of social distancing.
- C. An omni-channel approach for sales in the hospitality space will make the sector more attractive.
- D. Hospitality sector will be instrumental in the sector's success in the post-COVID-19
- E. All of the above

4) Which of the following is one of the suggestions that has been discussed by the author?

- A. Hospitality industry can tie-up with the schools etc. to offer hygienic stay options for their students
- B. Resorts and Hotels should convert themselves into part-time office areas for the employees

C. Integration of technologies like facial-recognition can make the payments and other facilities easy for the customers

- D. The industry should try to focus on the internal tourism to cater to the demands of the tourists who prefer international tourism
- E. All of the above

5) The employers have also been advised by the author. Which option helps understand the same?

- A. The author says that the employers should consider offering facilities like workcation or staycation for their employees
- B. The employees should keep in view the conditions that the pandemic has created and maintain social distancing by not calling them to work from office
- C. As the employers of the hospitality industry are hard-hit, they should empathize with their employees in these tough times till the industry bounces back
- D. Both (a) and (c)
- E. All (a), (b) and (c)

6) The word that fills the blank above to complete the sentence in the best possible way is?

- A. Revert
- B. Came
- C. Stay
- D. Bounced
- E. Rise

7) How has COVID hit the hospitality industry?

- A. About 40% of the hotels and restaurants have been shut down globally
- B. About 20% hotels have not been able to recover till now
- C. Rs. 500 crores have been lost due to losses in the industry
- D. Only (a) and (b)
- E. None of the above

Directions (8-12): Rearrange the following sentences in the proper sequence to form a meaningful paragraph and then answer the questions given below.

(A) But, Mr. Austin's trip preceded an unannounced stop in Kabul where the U.S. is undertaking a major review of its troop's pull-out schedule and peace plan.

(B) The timing of U.S. Secretary of Defense Lloyd Austin's visit to New Delhi over the weekend was significant for many reasons.

(C) As a result, all three areas: bilateral ties, the Indo-Pacific and Afghanistan came up for discussion during talks.

(D) Also, the visit, just after the first ever Quad leaders' summit, confirms the U.S.'s focus on greater maritime cooperation in the Indo-Pacific.

(E) Finally, Mr. Austin was careful not to make any direct reference to Beijing or about the LAC dispute, which New Delhi considers a bilateral issue.

(F) As the first senior ranking official of the Biden administration to meet with the Modi government, his visit this early in the new

President's tenure indicates the place India holds.

8) Which of the following statements does not form a part of a coherent paragraph, after rearranging the given statements?

- A. B
- B. F
- C. C
- D. D
- E. None is coherent.

9) Which of the following pair of statements will appear in similar sequence after rearrangement, as given in the option?

- A. A-E
- B. C-D
- C. B-F
- D. D-E
- E. A-F

10) Which of the following is the SECOND statement after rearrangement?

- A. B
- B. C
- C. F
- D. A
- E. E

11) Which of the following is the THIRD statement after rearrangement?

- A. D
- B. A
- C. F
- D. E

E. C

12) Which of the following is the FIFTH statement after rearrangement?

A. F

B. C

C. B

D. A

E. E

Directions (13-17):- In the following questions, four words are highlighted which may or may not be in their proper place. You are required to interchange them in order to make it both grammatically and contextually correct. In case the sentence is correct, select 'No replacement required'.

13) The **abandoned** (A) employees were taken by the **miscreants** (B) in an operational vehicle belonging to ONGC. Later, the vehicle was found **abducted** (C) near the Nimonagarh jungles close to the Assam-Nagaland **border** (D).

A. A-D

B. A-C

C. B-D

D. A-B

E. No replacement required

14) Struggling to track close to 45,000 active Covid-19 patients in home isolation, the PMC has **introduced** (A) a mobile application for the **purpose** (B). The civic body is **planning** (C) to make it mandatory for patients to download the

app, so that they get hospital **admission** (D) on a priority basis when required.

A. A-C

B. B-D

C. A-D

D. B-C

E. No replacement required

15) The PMC has received **complaints** (A) that some patients in home isolation are **violating** (B) safety protocols and moving around in public. The officer said this was happening despite the civic administration **putting** (C) stamps on their wrists and putting **stickers** (D) on the entry to their homes.

A. A-D and B-C

B. A-B and C-D

C. A-C and B-D

D. Only B-C

E. No replacement required

16) As COVID-19 cases continued to rise, **Following** (A) another high of 12,206 cases on Tuesday, and the Gujarat government opened all hospitals and **treating** (B) homes for **nursing** (C) Covid-19 patients across the state. **Hitting** (D) a core-committee meeting, the state government announced military hospitals would also be roped in to fight against the pandemic.

A. A-B and C-D

B. B-D and A-C

C. A-D and B-C

D. Only A-D

E. No replacement required

17) The **disengage** (A) for the U.S. is that it cannot **conundrum** (B) from Afghanistan, if that is its **priority** (C), without accepting Pakistan's **terms** (D).

- A. A-C
- B. B-D
- C. C-D
- D. A-B
- E. No interchange required

Directions (18-21): In the following questions a paragraph is given with two blanks. The paragraph is then provided with five options which consist of the words that can fill the given blanks. Choose that option as your answer which can fill the given blanks in the exact order as given in the option. If none of the given options fills the given blanks then choose option (e), 'None of these' as your answer.

18) The _____ party in the State and the national party did not arrive at an understanding, leading to the _____.

- A. Progressive, Offers
- B. Seating, Participate
- C. Ruling, Deadlock
- D. Constitutional, Allied
- E. None of these.

19) Those aged above 80 and those _____ for casting postal ballots should fill up a 12-D _____ form when officials visit their residences.

- A. Engage, Clarity
- B. Eligibility, Conceptual

- C. Engaged, Contradiction
- D. Eligible, Consent
- E. None of these.

20) On-site walk-in registrations for COVID-19 vaccines have _____ good response _____ senior citizens.

- A. Acquired, Within
- B. Gained, Among
- C. Acquired, Over
- D. Gained, Between
- E. None of these.

21) There are _____ ways in which women's _____ at home can be reduced by the government.

- A. Little, Burden
- B. Many, Burden
- C. Few, Burdened
- D. Much, Works
- E. None of these.

22) Challenges linked to elections come in many shapes and sizes-some can be _____, most are hard to _____

- A. Anticipated, tell.
- B. Expected, introduce
- C. Benefitted, said
- D. Promoted, delusion
- E. None of the above

Directions (23-27): In the following questions, five sentences are given among which one of

sentence grammatically correct. Choose the sentence/s which is grammatically and contextually correct.

23)

- A. Scientists believe that the cow is the only animal which both inhales and exhales oxygen.
- B. There were food shortages and other deprivations during the Civil War.
- C. The article providing a useful summary of the current state of play in the negotiations.
- D. The old railway station was in a state of derelict.
- E. Unless 1951, China had no ongoing suzerainty over Tibet.

24)

- A. One would sure marvel at the incredible and timely collaboration.
- B. Existing Indian infrastructures can't sustainable security of data centers at the level required.
- C. Nanotechnology using to produce nano urea to improve its nutrient efficiency.
- D. Doctrinal clarity and institutional coherence are essential for a robust cyber security posture.
- E. One virus and its vaccines has taught health journalists precious lessons.

25)

- A. The fear of infection keeps residents inside their homes.
- B. The government intent to offload public sector units and banks resulting in the long term loss of public wealth.

C. The government has presided to an exponential rise in NPAs.

D. Unresolved questions and the hope of finding life on the planet have been intrigued experts for decades.

E. Mars has always been depiction as a backup site for humanity to migrate.

26)

A: You have got to consider the time element when planning the whole project.

B: Airline passengers may facing lengthy delays during holiday travel.

C: The island has longer golden beaches fringed by palm trees.

D: She returned back to work after a prolonged illness.

E: The building was made using modern constructing techniques.

27)

A. The Internet is an invaluable resources for teachers.

B. In order to turn the deserts into fertile and productive land, engineers built an 800-miles canal.

C. He was able to provide the police with some valuable informations.

D. Teamwork at its best results in a synergy that can be very produced .

E. Scientists have been trying to solve this puzzle for years.

Directions (28-30): In the following question, two statements and five connectors are given. Only one of the connectors from those given can be used to combine the given two statements into one sentence without changing the meaning. Choose that connector as your answer.

28)

I. In the case of a prism some caution is necessary.

II. The standards used are very close together.

- A. Since
- B. Unless
- C. In addition to
- D. Of course
- E. Except

29)

I. His favorite occupation when not playing boston, a card game he was very fond of, was that of listener.

II. when he succeeded in setting two loquacious talkers at one another.

- A. Especially
- B. Although
- C. Whether
- D. Nevertheless
- E. None of the above

30)

I. He doubted Katie would be anything like a demon mother.

II. He could see the both of them ending up as his father and mother did: dead-dead before their child was six.

- A. Yet
- B. If
- C. As
- D. On account of
- E. Owing to

Quantitative Aptitude

Directions (31-35): Study the following information carefully and answer the questions given below.

The given table shows the total number of appliance and the number of AC and the % of fridge sold by five different companies in a month.

Total appliance = Number of AC sold + Number of Fridge sold + Number of Oven sold

Companies	% of fridge sold out of total appliance sold by a company	Number of AC sold	Total appliance sold by a company
A	30%	400	1000
B	20%	520	2080
C	35%	560	1400
D	40%	480	1600

31) If the number of Oven sold by E is half of the number of oven sold by D and the ratio of the number of oven and AC sold by E is 8:11, then find the number of AC sold by E?

- A. 297
- B. 308
- C. 319
- D. 330
- E. None of these

32) The difference between the number of fridge sold by A and B together is what percent of the total number of oven sold by B and C together?

- A. 7.76%
- B. 18.85%
- C. 26.65%
- D. 15.56%
- E. 3.44%

33) Ratio of unsold to sold fridge by A is 7:3. The number of Unsold fridge by B is equal to 50% of the fridge unsold by A and the number of unsold AC by B is 36 more than the number of unsold fridge by B, then find the total number of AC sold and unsold by B?

- A. 386
- B. 906
- C. 600
- D. 520
- E. 526

34) The cost price of an Oven in A is Rs.2000 and the cost price of a fridge in C is Rs.3000. If 40% of the oven sold by A at the profit of 10% and rest are sold at 40% loss and 60% of the fridge sold by C at the profit of 5% and rest are sold at the loss of 20%, then find the total revenue collected from A and B?

- A. Rs.2078100
- B. Rs.1679700
- C. Rs.1775600
- D. Rs.197000
- E. Rs.1876500

35) If the total number of appliance sold by E is 80% more than that of D and the number of oven sold by E is average of the number of oven sold by A and C. If the number of fridge sold by E is 20% more than that of D, then find the number of AC sold by E?

- A. 1700
- B. 1787
- C. 1720
- D. 1855
- E. 1830

Directions (36-40): What values should come in the place of (?) in the following number series?

36) 15, 23, 30, 36, 41, ?

- a) 45
- b) 48
- c) 51
- d) 54
- e) 57

37) 12, 36, 80, 164, 328, ?

- a) 596
- b) 612
- c) 648
- d) 652
- e) 678

38) 3, 8, 18, 33, 53, ?

- a) 64

- b) 68
- c) 72
- d) 78
- e) 84

39) 10, 20, 60, 300, ?, 23100

- a) 1800
- b) 2100
- c) 2400
- d) 2700
- e) 3000

40) 6, 7, 16, 51, 208, ?

- a) 1045
- b) 1050
- c) 1060
- d) 1080
- e) 1040

41) Ratio of the efficiency of A and B is 3:2 and the efficiency of A is 200% more than that of C. If B and C together can complete the work in 60 days, in how many days A and B together can complete the work?

- A. 24 days
- B. 30 days
- C. 36 days
- D. 42 days
- E. 45 days

42) A, B and C started the business. The ratio of the investment of A and C is 4:5 and the investment of B is 20% more than the investment of C. After 12 months, B withdrew $33\frac{1}{3}\%$ of his initial investment and after one more year, C added 60% of his initial investment. At the end of 30 months, the total profit of the business is Rs.7200, then find the profit share of A?

- A. Rs.2000
- B. Rs.2400
- C. Rs.1800
- D. Rs.2700
- E. None of these

43) The present age of Arul's father is four times the present age of Arul. Four years ago, the age of Arul's father is six times the age of Arul's age at that time. Arul's grandfather's age is seven times the present age of Arul. Find the difference between the present age of Arul's father and grandfather?

- A. 20 years
- B. 30 years
- C. 15 years
- D. 25 years
- E. 35 years

44) Ratio of the Marked price to the cost price of the laptop is 9:5. The shopkeeper allows two successive discounts of 20% and 25% respectively. If the shopkeeper sold it at a single discount of 35%, he would have gained Rs.180

more. Find the selling price of the laptop at a profit of 30%?

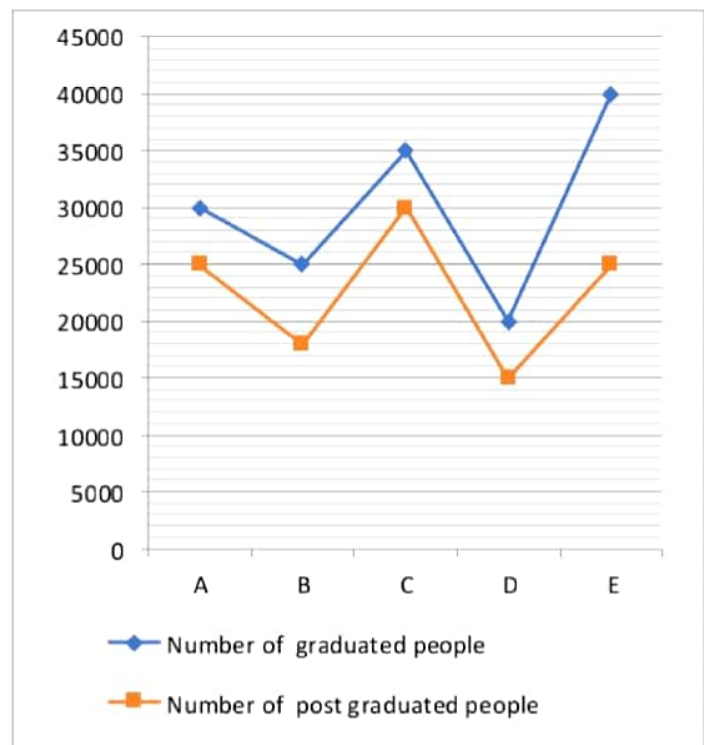
- A. Rs.3900
- B. Rs.3600
- C. Rs.3400
- D. Rs.2800
- E. Rs.2600

45) Suman invests Rs.($x + 1000$) in a compound interest scheme at the rate of 10% per annum for 2 years and he also invests Rs. x in a simple interest scheme at the rate of 15% per annum for 3 years. The interest received on a simple interest scheme is Rs.750 more than that of a compound interest scheme. Find the value of x ?

- A. Rs.3600
- B. Rs.4000
- C. Rs.4200
- D. Rs.4400
- E. Rs.4800

Directions (46-50): Study the following information carefully and answer the questions given below.

The given line graph shows the number of graduated people and the number of post graduated people in five different villages.



46) Ratio of the number of male and female graduates and post graduates people in village D is 5:3 and 11:9 respectively. Find the total number of male graduates and post graduates people in village D?

- A. 20750
- B. 20850
- C. 20650
- D. 20950
- E. None of these

47) The total number of literate and illiterate people in B is 5:3 and the number of literate people in B is 125% of the total number of graduate and post graduates people in the same village. Find the number of illiterate people in B?

- A. 32250
- B. 32280
- C. 32300

D. 32350

E. 32460

48) Total number of people in A is 20% more than the number of graduates and post graduates people in A. If the ratio of the number of male to female population in A is 5:3, then find the number of male population in A?

A. 41240

B. 41230

C. 41250

D. 41280

E. 41290

49) The total number of post graduates people in C and E together is approximately what percent of the number of graduates people in the same villages?

A. 70%

B. 73%

C. 75%

D. 78%

E. 81%

50) Ratio of the post graduates people in E and F is 5:7 and the number of graduate people in F is 4000 more than the number of graduates people in B. If the ratio of the number of male to female post graduates and graduates people in F is 3:2 and 3:1 respectively, then find the number of female post graduates and graduates people in F?

A. 21200

B. 21240

C. 21210

D. 21250

E. 21300

Directions (51-56): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give an answer as,

51)

I) $x^2 - 15x + 54 = 0$

II) $y^2 - 4y - 117 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

52)

I) $x^2 - 5x - 204 = 0$

II) $y^2 + 27y + 180 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

53)

I) $x^2 + 2x - 99 = 0$

II) $y^2 - 19y + 90 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

54)

I) $x^2 + x - 182 = 0$

II) $y^2 + 31y + 240 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

55)

I) $2x^2 - 13x + 20 = 0$

II) $y^2 - 17y + 52 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

56)

I) $x^2 - 40x + 384 = 0$

II) $y^2 - 26y = -168$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined

D. $x < y$

E. $x \leq y$

57) The length and breadth of a rectangle is $(x + 5)$ cm and $(x - 2)$ cm respectively. If the perimeter of the rectangle is 6 cm more than the perimeter of the square whose area is 400 cm^2 , then find the area of the rectangle?

A. 540 cm^2

B. 510 cm^2

C. 420 cm^2

D. 480 cm^2

E. 450 cm^2

58) A train crosses a tower in 20.25 seconds and also crosses a 150 m long bridge in 27 seconds. Find the speed of the train?

A. 60 kmph

B. 72 kmph

C. 80 kmph

D. 90 kmph

E. None of these

59) The boat covers x km upstream in t hours and the same boat covers $(x + 40)$ km downstream in $(t - 4)$ hours. If the speed of the stream is 7 kmph, then find the speed downstream?

A. 32 kmph

B. 25 kmph

C. 28 kmph

D. 35 kmph

E. Cannot be determined

60) A vessel contains 56 liters of milk and the rest is water which is $\frac{1}{5}$ th of the mixture of the vessel. If 15 liters of mixture are taken out and x

liters of water added to the mixture, then the ratio of milk and water becomes 11:6. Then find the value of x ?

- A. 14
- B. 10
- C. 13
- D. 11
- E. None of these

Directions (61-65): Read the following information carefully and answer the questions.

The given information shows the total number of fans (ceiling and table) sold by four different shops A, B, C and D.

Ceiling Fan: Ratio of the number of Ceiling fans sold by shops A and B is 1:2 respectively and the difference between the number of Ceiling fans sold by shops A and D is 90. Number of Ceiling fans sold by shop C is 20% less than that of shop D. Number of Ceiling fans sold by shop C is 60% of number of Ceiling fans sold by shop B.

Table Fan: Average number of table fans sold by all four shops is 175 and the number of table fans sold by shop A is two times the number of table fans sold by shop C. Ratio of the number of table fans sold by shops A and D is 5:4 respectively. Number of table fans sold by shop B is 80 more than that of shop D.

61) Find the difference between the total number of fans sold by shops B and D together?

- A. 120
- B. 170
- C. 160

- D. 180
- E. None of these

62) Out of the number of table fans sold by shop B, 25% of table fans sold at a profit of 40% and the remaining table fans sold at a profit of 20%. If all the table fans sold for Rs. 1.5 lakh in shop B, then find the cost price of each table fan in shop B?

- A. Rs. 800
- B. Rs. 450
- C. Rs. 600
- D. Rs. 500
- E. None of these

63) Find the average number of ceiling fans sold by shops A, C and D together?

- A. 130
- B. 170
- C. 222
- D. 110
- E. None of these

64) If the total number of fans sold by shop E is 20% more than that of shop D and the ratio of number of table fans sold by shops E and D is 9:8 respectively, then find the number of ceiling fans sold by shop E?

- A. 336
- B. 420
- C. 280
- D. 150
- E. None of these

65) Number of table fans sold by shops C and D together is approximately what percentage more/less than the number of ceiling fans sold by shop B?

- A. 45% less
- B. 28% more
- C. 25% less
- D. 10% more
- E. None of these

Reasoning Ability

Directions (66-70): Study the following information carefully and answer the below questions

Ten persons-L, M, N, O, P, Q, R, S, T, and U are attending the conference on two different dates either 9 or 11 of five different months-January, May, August, October, and December of the same year but not necessarily in the same order.

T attends three persons before N who attends after August. U attends immediately after N. The number of persons attending before U is the same as the number of persons attending after R. The number of persons attending between T and R is one less than the number of persons attending between U and S. S attends before U. O attends four persons after L. O and S are attending in different months. The number of persons attending between L and N is the same as the number of persons attending between R and P. P and Q are attending the conference on different months.

66) Which of the following month and dates does T attend the conference?

- a) May 11
- b) August 9
- c) August 11
- d) October 9
- e) October 11

67) Who among the following persons are attending the conference before L?

- I. P
 - II. The one who attends two persons after T
 - III. The one who attends immediately after M
- a) Only I
 - b) Only I and III
 - c) Only III
 - d) All I, II, and III
 - e) None of these

68) Four of the five among the following are similar in such a way to form a group, who among the following doesn't belong to the group?

- a) P
- b) R
- c) The one who attends immediately before U
- d) The one who attends two persons after N
- e) Q

69) Which of the following statement is true?

- a) N and O attending on the same month
- b) Q and P attending on the same date
- c) No one attends after O
- d) Two persons are attending between R and N

e) M attends immediately before R

70) Who among the following person attends the conference on January 11?

- a) N
- b) Q
- c) O
- d) The one who attends in the same month of L
- e) The one who attends immediately before R

Directions (71-73): Study the following information carefully and answer the questions given below.

A person from point F drives towards the south for 3km to reach point B, where he takes a left turn and drives for 12km to reach point H. Then he takes a right turn and drives for 8km to reach point R from where he turns to his right again and drives for 6km. He then drives for 5km after taking a right turn at point J and reaches point N. At this point he takes a left turn and drives for 8km to reach point V, where he takes a right turn and drives for 2km to reach point K. He finally stops at point Y, which is 3km to the west of point K.

71) In which direction is point B with respect to point Y?

- a) East
- b) Southeast
- c) Northeast
- d) West
- e) None of these

72) If M is in the midpoint of the points B and H, then what is the shortest distance between the points M and J?

- a) 10km
- b) 8km
- c) 9km
- d) 11km
- e) None of these

73) What is the shortest distance between the points K and F?

- a) $\sqrt{22}$ km
- b) $2\sqrt{6}$ km
- c) 5km
- d) $2\sqrt{5}$ km
- e) None of these

74) If it is possible to make a meaningful word, using the third, fourth, sixth and eighth letters from the left end of the word 'RAVISHMENT', then what is the last letter of the word formed? If no such word is formed, mark the answer as 'Y'. If more than one word can be formed mark the answer as 'X'.

- a) D
- b) L
- c) X
- d) Y
- e) E

75) How many such pairs of numbers are there in the number "81346528" each has many numbers between them as in the number series (both forward and backward)?

- a) 1
- b) 2
- c) 3
- d) 4
- e) More than four

Directions (76-80): Study the following information carefully and answer the below questions

Six persons-P, Q, R, S, T, and U are sitting on the circular table and facing centre. They like different fruits- Banana, Mango, Apple, Peach, Cherry, and Orange. All the information is not necessarily in the same order.

R sits second to the left of the one who likes Cherry. Only one person sits between the one who likes Cherry and the one who likes Apple. P sits third to the right of the one who likes Peach. P neither likes Cherry nor Apple. S sits immediate left of P. The number of persons sitting between R and P is the same as the number of persons sitting between S and Q. T sits immediate right of the one who likes Orange. The number of persons sitting between the one who likes Banana and R is the same as the number of persons sitting between P and S when counted from the left of P. Neither Q nor U likes Mango.

76) How many persons sit between T and the one who likes Mango when counted to the left of T?

- a) One
- b) Two
- c) Three

- d) Four
- e) Five

77) Which of the following fruit is liked by U?

- a) Cherry
- b) Orange
- c) Banana
- d) Apple
- e) Peach

78) Who among the following person sits third to the left of T?

- a) P
- b) R
- c) The one who sits second to the left of S
- d) The one who likes Cherry
- e) S

79) Which of the following combination is true?

- a) T- Orange
- b) S- Mango
- c) R- Peach
- d) Q- Cherry
- e) R-Banana

80) If all the persons are arranged in alphabetical order in a clockwise direction from P, then who among the following person likes Apple(Fruits remain in same positions)?

- a) Q
- b) S
- c) The one who sits opposite to P
- d) T
- e) U

Directions (81-84): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

81) Statement

Only a few Radiator is Engine

Some Engine is Battery

All Battery is Compressor

Conclusion

I. No Battery is Radiator

II. Some Compressor can be Radiator

- a) Only I follows
- b) Either I or II follows
- c) Only II follows
- d) Both I and II follow
- e) Neither I nor II follows

82) Statement

Only a few Brakes are Axle

All Axle is Piston

No Piston is Clutch

Conclusion

I. No Clutch is Axle

II. Some Brakes can be Piston

- a) Only I follows
- b) Either I or II follows
- c) Only II follows
- d) Both I and II follow
- e) Neither I nor II follows

83) Statement

Only a few Seal is Angel Fish

No Angel fish is Stingray

No Stingray is Star Fish

Conclusion

I. Some Angel Fish are StarFish is a possibility

II. All Seal can be Stingray

- a) Only I follows
- b) Either I or II follows
- c) Only II follows
- d) Both I and II follow
- e) Neither I nor II follows

84) Statement

Only a few Dolphin is Clownfish

All Clownfish is Turtle

Only Turtle is Crab

Conclusion

I. Some Crab are Dolphin is a possibility

II. All Turtle can be Dolphin

- a) Only I follows
- b) Either I or II follows
- c) Only II follows
- d) Both I and II follow
- e) Neither I nor II follows

Directions (85-89): Study the following Information carefully and answer the below questions

Twelve persons are sitting on two parallel rows and opposite to each other. In Row1 A, B, C, D, E, and F are sitting and faces south. In row2 P, Q, R, S, T and U are sitting and faces north but not necessarily in the same order.

R sits third to the left of T. At least one person sits to the right of T. The one who sits opposite to R sits second to the right of E. Only one

person sits between E and C. The number of persons sit to the left of C is the same as the number of persons sit to the right of B. A sits second to the left of B. S sits third to the right of U. Neither U nor P is sitting opposite to B. F sits to the right of D who does not sit opposite to S.

85) How many persons are sitting between B and the one who sits opposite to T?

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

86) Four of the five among the following are similar in such a way to form a group, who among the following doesn't belong to the group?

- a) BA
- b) EC
- c) RP
- d) PS
- e) QT

87) Who among the following person sits second to the left of A?

- a) The one who sits immediate left of E
- b) C
- c) B
- d) The one who sits opposite to R
- e) E

88) Which of the following statement is/are false?

I. Only one person sits between R and P

II. T sits immediate left of S

III. B and S are diagonally opposite to each other.

- a) Only I and III
- b) Only III
- c) Only I and II
- d) Only II
- e) None of the statements is false

89) In which of the following statements 1st person sits exactly between the 2nd and 3rd person in the final arrangement?

I. BFA

II. PTS

III. AFE

- a) Only II
- b) Only I and III
- c) Only III
- d) All I, II, and III
- e) None of these

Direction (90-92): Study the following information carefully and answer the questions given below.

T is the only son of N, who is the brother-in-law of R. G is the mother of W but she is not the spouse of N. R, who is the unmarried brother of P. L is the paternal aunt of W whereas C is the daughter-in-law of T. No single parent has a child and an equal number of males and females are there in the family.

90) Who among the following person is the mother of T?

- a) R
- b) L
- c) G
- d) P
- e) None of these

91) How is L related to R?

- a) Daughter
- b) Niece
- c) Son
- d) Nephew
- e) Cannot be determined

92) If K is the brother of C, then how is K related to G?

- a) Brother-in-law
- b) Son-in-law
- c) Brother of Daughter-in-law
- d) Brother of Son-in-law
- e) None of these

Direction (93-95): Study the following information carefully and answer the questions given below.

Six bottles viz., P, Q, R, S, T, U have different quantities of water but not necessarily in the same order.

P has more than R but less than T. S has more than R but less than T which does not have the highest quantity of water. U has more than Q which has less than R. The bottle with second lowest quantity of water has 120 ml whereas the bottle with second highest quantity of water has 150 ml. None of the bottle has more than 155ml

of water and S does not have third lowest quantity of water.

93) What may be the quantity of water in Bottle U?

- a) 152 ml
- b) 153 ml
- c) 157ml
- d) 159 ml
- e) Either a or b

94) If the sum of the quantity of water in bottle R and P is 255 ml and the difference between the quantity of water in bottle T and U is 304 ml then what is the sum of the quantity of water in U and P?

- a) 289 ml
- b) 299 ml
- c) 279 ml
- d) 288 ml
- e) None of these

95) What is the difference between the quantity of water in bottles R and T?

- a) 20 ml
- b) 5 ml
- c) 10 ml
- d) 30 ml
- e) None of these

Direction (96-100): Study the following information carefully and answer the questions given below.

Ten persons viz. I, J, K, L, M, N, O, P, Q and R are working in different departments of the same company viz. Purchase, Manufacturing and

Sales, but not necessarily in the same order.
Atleast three persons work in each department.
J neither works in sales department nor along with L. Q works along with L but not in the purchase department. O neither works with J nor Q, whereas only two more persons work along with O. M works in the department which has the maximum number of persons along with I but not in the sales department. N works along with P but neither with O nor Q.

96) Who among the following person works in manufacture department?

- a) O
- b) P
- c) L
- d) R
- e) None of these

97) How many persons work in manufacturing department?

- a) Two
- b) One
- c) Three
- d) More than three
- e) None

98) In which of the following department does K work?

- a) Manufacture
- b) Sales
- c) Purchase
- d) Cannot be determined
- e) None of these

99) Which of the following statements is/are true with respect to the final arrangement?

- I. Both R and P work in the same department.
 - II. Neither N nor K works in Manufacture department.
 - III. J works in the same department with N.
- a) Only I
 - b) Both I and II
 - c) Both I and III
 - d) Both II and III
 - e) All of these

100) Who among the following person works along with M?

- a) O
- b) L
- c) N
- d) R
- e) None of these

Answer With Explanation

1) Answer: B

The given line talks about the only relief that the government has provided to the hospitality

industry. We have two options that can fit as synonyms ie; (b) and (c).

But, the usage in the passage is not in the context of a break so, recess can be ruled out and hence 'breather' which means a relief or a sigh in between some blow can be the best fit.

So, option (b) is correct.

2) Answer: C

The initial lines discuss the opportunities that come in the form of the challenges that the pandemic has imposed upon us. So, the obvious word that defines the tone is 'optimistic' which means trying to look for positives in every situation.

Critical and Skeptical are negative tones that mean finding faults and being doubtful respectively.

Cautionary and Alarming are also misfits.

Hence, the best option is (c).

3) Answer: E

All the given points are related to the context of the passage but as far as the question asks, we are required to find an option that is not true as per the passage and as none of these points have directly been given all of the above should be false.

It is a simple rule, whatever the author says is correct while solving the passage questions and unless it is an 'inference' based question, something that's not directly given in the passage is considered not true.

Hence, option (e) is correct.

4) Answer: D

The first few lines of the second paragraph can easily clarify the answer to the question.

Though the suspension of global tourism has hit the Indian hospitality industry hard, it's time to shift the larger focus on the domestic demands. Millions of travelers, who are unable to travel overseas, would look for quality domestic alternatives. So, focusing on internal tourism is the way forward.

Hence, option (d) is correct.

5) Answer: A

The second paragraph explains the first option where it talks about remodeling of the resorts etc. to make them suitable for workcations.

Therefore, option (a) is the correct answer.

6) Answer: D

The word 'haven't' has been used before the blank. It indicates that a word that is in the third form should be used. Options (a), (c) and (e) would hence be eliminated.

Bounced back is a phrase that fits here as it means to revive and get back on track.

So, the correct answer is (d).

7) Answer: D

Option (c) is incorrect. The other two options have been given in the first paragraph.

Hence, (d) is the correct answer.

8) Answer: E

Among the given sentences, (B) is the first sentence after rearrangement as it sets the

theme of all other sentences which are based on Mr. Austin's visit to India. Further, it will be followed by (F) for which the hint can be drawn from 'his visit this early'. Statement (D) will follow (F) because the hint for this will be drawn from sentence (C), which mentions the sequence of areas. The statement (F) indicates the bilateral ties; (F) indicates the Indo-Pacific and finally (A) hints towards the Afghanistan issue. To conclude the passage (E) will be placed at last which mentions 'finally' indicating towards the concluding statement. Therefore, the correct sequence will be **BFDACE**. Hence, option (e) is the most suitable answer choice.

9) Answer: C

Among the given sentences, (B) is the first sentence after rearrangement as it sets the theme of all other sentences which are based on Mr. Austin's visit to India. Further, it will be followed by (F) for which the hint can be drawn from 'his visit this early'. Statement (D) will follow (F) because the hint for this will be drawn from sentence (C), which mentions the sequence of areas. The statement (F) indicates the bilateral ties; (F) indicates the Indo-Pacific and finally (A) hints towards the Afghanistan issue. To conclude the passage (E) will be placed at last which mentions 'finally' indicating towards the concluding statement. Therefore, the correct sequence will be **BFDACE**. Hence, option (c) is the most suitable answer choice.

10) Answer: C

Among the given sentences, (B) is the first sentence after rearrangement as it sets the theme of all other sentences which are based on Mr. Austin's visit to India. Further, it will be followed by (F) for which the hint can be drawn from 'his visit this early'. Statement (D) will follow (F) because the hint for this will be drawn from sentence (C), which mentions the sequence of areas. The statement (F) indicates the bilateral ties; (F) indicates the Indo-Pacific and finally (A) hints towards the Afghanistan issue. To conclude the passage (E) will be placed at last which mentions 'finally' indicating towards the concluding statement. Therefore, the correct sequence will be **BFDACE**. Hence, option (c) is the most suitable answer choice.

11) Answer: A

Among the given sentences, (B) is the first sentence after rearrangement as it sets the theme of all other sentences which are based on Mr. Austin's visit to India. Further, it will be followed by (F) for which the hint can be drawn from 'his visit this early'. Statement (D) will follow (F) because the hint for this will be drawn from sentence (C), which mentions the sequence of areas. The statement (F) indicates the bilateral ties; (F) indicates the Indo-Pacific and finally (A) hints towards the Afghanistan issue. To conclude the passage (E) will be placed at last which mentions 'finally' indicating towards the concluding statement. Therefore, the correct sequence will be **BFDACE**. Hence, option (a) is the most suitable answer choice.

12) Answer: B

Among the given sentences, (B) is the first sentence after rearrangement as it sets the theme of all other sentences which are based on Mr. Austin's visit to India. Further, it will be followed by (F) for which the hint can be drawn from 'his visit this early'. Statement (D) will follow (F) because the hint for this will be drawn from sentence (C), which mentions the sequence of areas. The statement (F) indicates the bilateral ties; (F) indicates the Indo-Pacific and finally (A) hints towards the Afghanistan issue. To conclude the passage (E) will be placed at last which mentions 'finally' indicating towards the concluding statement. Therefore, the correct sequence will be **BFDACE**. Hence, option (b) is the most suitable answer choice.

13) Answer: B

The **abducted** (A) employees were taken by the **miscreants** (B) in an operational vehicle belonging to ONGC. Later, the vehicle was found **abandoned** (C) near the Nimonagarh jungles close to the Assam-Nagaland **border** (D).

14) Answer: E

Struggling to track close to 45,000 active Covid-19 patients in home isolation, the PMC has **introduced** a mobile application for the **purpose**. The civic body is **planning** to make it mandatory for patients to download the app, so that they get hospital **admission** on a priority basis when required.

15) Answer: E

The PMC has received **complaints** (A) that some patients in home isolation are **violating** (B) safety protocols and moving around in public. The officer said this was happening despite the civic administration **putting** (C) stamps on their wrists and **putting stickers** (D) on the entry to their homes.

16) Answer: C

As COVID-19 cases continued to rise, **hitting** another high of 12,206 cases on Tuesday, and the Gujarat government opened all hospitals and **nursing** homes for **treating** Covid-19 patients across the state. **Following** a core-committee meeting, the state government announced military hospitals would also be roped in to fight against the pandemic.

17) Answer: D

Here, A-B will replace each other in order to make the sentence grammatically and contextually correct.

The correct sentence will be,

The **conundrum** for the U.S. is that it cannot **disengage** from Afghanistan, if that is its **priority**, without accepting Pakistan's **terms**.

Conundrum: a confusing and difficult problem or question.

18) Answer: C

Among the given set of words, the most suitable words to fill in the given blanks in the similar sequence will be 'ruling' and 'deadlock'.

Ruling (adjective) - currently exercising authority or influence.

Deadlock (noun)- a situation, typically one involving opposing parties, in which no progress can be made.

Allied (adjective)- joined by or relating to members of an alliance.

Hence, option (c) is the most suitable answer choice.

19) Answer: D

Among the given set of words, the most suitable words to fill in the given blanks in the similar sequence will be 'eligible' and 'consent'.

Eligible (adjective)- having the right to do or obtain something; satisfying the appropriate conditions.

Consent (noun)- permission for something to happen or agreement to do something.

Hence, option (d) is the most suitable answer choice.

20) Answer: B

Among the given set of words, the most suitable words to fill in the given blanks in the similar sequence will be 'gained' and 'among'.

Gained- obtain or secure (something wanted or desirable).

Among- Among is used when talking about people or things that are not distinct and are viewed as a group.

Over-extending directly upwards from.

Between-You can use between for any number of elements, as long as all the elements are separate and distinct.

Within- inside (something).

Hence, option (b) is the most suitable answer choice.

21) Answer: B

Among the given set of words, the most suitable words to fill in the given blanks in the similar sequence will be 'many' and 'burden'.

'Much' is used when we are speaking about a singular noun. 'Many' is used when we are speaking about a plural noun.

Little refers to non-countable nouns, and is used with the singular form to indicate that something exists only in a small amount or to a slight degree. Few refer to countable nouns, and is used with the plural form to indicate not many persons or things.

Hence, option (b) is the most suitable answer choice.

22) Answer: A

The combination of words given in option a is correct, all other options are grammatically and contextually incorrect.

23) Answer: B is correct

A: Sentence A is wrong as 'the only' is followed by 'that'.

B: Scientists believe the cow is the only animal that both inhales and exhales oxygen.

C: The article providing is wrong ,the verb provides is correct usage.

D: Derelict is wrong ,and there is noun dereliction needed.

E: Unless is wrong usage ,until will replace there.

24) Answer: D

Only D has been given without any error.

A: Sure should be replaced with "surely" means an adverb of action.

B: Can't sustainable is a wrong usage so it should be can't sustain.

C: using the wrong usage v3 form will come so it will be "is used".

E: Two entities are connected so "have" will come in the place" has".

25) Answer: A

Only A has given without error.

B. Verb resulting in should be replaced with result

C:" Presided to" wrong usage instead of that "presided over" will come.

D: Sentence given is active voice so "have been" replaced with "have intrigued"

E. The "depiction" should be replaced with depicted. Depiction is a noun form.

26) Answer: A

B:"May facing" is wrong usage,v1 only will come.

C: Sentence C is wrong as there is no comparison being made in the sentence, 'long' is the correct usage.

D: Sentence D is wrong as 'return' is not used with the word 'back'. The word 'return' itself means 'come or go back to a place or person.'

E: Constructing techniques is wrong usage, it should be construction technique.

27) Answer: E

A: A resources is wrong usage, instead of plural singular resource will come.

B: Sentence B is wrong. As the word '800-mile' is used as an adjective in the given sentence, it should not be used in plural form.

C: Sentence C is wrong. As the word 'information' is an uncountable noun, it should not be used in the plural form.

D: Produced is wrong, instead of that productive will come.

28) Answer: B

Here, the first statement is regarding the caution in the case of a prism but the second statement gives a condition in which there is a possibility that the caution is not that much necessary if the standards used are very close together. Among the given options, unless may be used to connect the two statements since it can give the condition imposed on something taking place. Since is used to imply the cause-effect relationship whereas in addition to is used to imply that something more may have to be said. Other two connectors are also not correct according to the given context.

The complete sentence would be: In the case of a prism some caution is necessary unless the

standards used are very close together. This makes option B the correct choice among the given options.

29) Answer: A

The two statements can be connected in the way that the second statement is elaborating on the information already provided in the first statement. The person's favorite occupation is that of a listener and then we get to know that he succeeded in setting two loquacious talkers at one another. Among the given options, we may use especially in order to connect the two statements because it also elaborates on the information already available with us.

The connected statement would be: His favorite occupation when not playing Boston, a card game he was very fond of, was that of listener, especially when he succeeded in setting two loquacious talkers at one another.

Other connectors will not fit in the given context. This makes option A the correct choice among the given options.

30) Answer: A

The first statement is regarding something that has already been said but still somebody did it, as is explained in the second statement. Among the given options, yet is the correct choice since it is used to imply that despite something whereas if is mainly used in a conditional clause. All the other three connectors given are used to indicate some cause and effect relationship. Hence they can be eliminated as the given

statements do not share the cause and effect relationship.

The connected statement would be: He doubted Katie would be anything like a demon mother, and yet, he could see the both of them ending up as his father and mother did: dead-dead before their child was six..

This makes option A the correct choice among the given options.

31) Answer: D

Number of Oven sold by D = $1600 - (480 + 40/100 * 1600) = 480$

Number of oven sold by E = $1/2 * 480 = 240$

Number of AC sold by E = $11/8 * 240 = 330$

32) Answer: A

Number of fridge sold by A = $30/100 * 1000 = 300$

Number of fridge sold by B = $20/100 * 2080 = 416$

Number of oven sold by B = $2080 - (520 + 416) = 1144$

Number of oven sold by C = $1400 - (560 + 35/100 * 1400) = 350$

Required % = $(416 - 300)/(1144 + 350) * 100 = 7.76\%$

33) Answer: B

Number of fridge sold by A = $30/100 * 1000 = 300$

Number of fridge sold by B = $20/100 * 2080 = 416$

Number of unsold fridge by A = $300 \times \frac{7}{3} = 700$
 Number of unsold fridge by B = $700 \times \frac{50}{100} = 350$
 Number of unsold AC by B = $36 + 350 = 386$
 Required total = $520 + 386 = 906$

34) Answer: E

Number of oven sold by A = $1000 - (400 + \frac{30}{100} \times 1000) = 300$
 Number of fridge sold by C = $\frac{35}{100} \times 1400 = 490$
 Total revenue = $(300 \times \frac{40}{100} \times 2000 + \frac{110}{100} \times 300 \times \frac{60}{100} \times 2000 + \frac{60}{100} \times 490 \times \frac{60}{100} \times 3000 + \frac{105}{100} \times 490 \times \frac{40}{100} \times 3000 + \frac{80}{100})$
 $= 480000 + 1396500$
 $= \text{Rs.}1876500$

35) Answer: B

Number of oven sold by A = $1000 - (400 + \frac{30}{100} \times 1000) = 300$
 Number of oven sold by C = $1400 - (560 + \frac{35}{100} \times 1400) = 350$
 Number of fridge sold by D = $\frac{40}{100} \times 1600 = 640$
 Number of fridge sold by E = $\frac{120}{100} \times 640 = 768$
 Number of oven sold by E = $300 + \frac{350}{2} = 325$
 Number of AC sold by E = $\frac{180}{100} \times 1600 - (768 + 325) = 1787$

36) Answer: A

$15 + 8 = 23$
 $23 + 7 = 30$

$30 + 6 = 36$
 $36 + 5 = 41$
 $41 + 4 = 45$

37) Answer: D

$12 \times 2 + 12 = 36$
 $36 \times 2 + 8 = 80$
 $80 \times 2 + 4 = 164$
 $164 \times 2 + 0 = 328$
 $328 \times 2 - 4 = 652$

38) Answer: D

$3 + 5 = 8$
 $8 + 10 = 18$
 $18 + 15 = 33$
 $33 + 20 = 53$
 $53 + 25 = 78$

39) Answer: B

$10 \times 2 = 20$
 $20 \times 3 = 60$
 $60 \times 5 = 300$
 $300 \times 7 = 2100$
 $2100 \times 11 = 23100$

40) Answer: A

$6 \times 1 + 1 = 7$
 $7 \times 2 + 2 = 16$
 $16 \times 3 + 3 = 51$

$$51 * 4 + 4 = 208$$

$$208 * 5 + 5 = 1045$$

41) Answer: C

$$A \text{ and } C = 300:100 = 3:1$$

$$\text{Efficiency of A, B and C} = 3:2:1$$

$$\text{Time ratio of A, B and C} = 2:3:6$$

$$1/3x + 1/6x = 1/60$$

$$3/6x = 1/60$$

$$x = 30$$

$$A + B = 1/(2*30) + 1/(3 * 30)$$

$$= 1/36$$

A and B together can complete the work in 36 days

42) Answer: A

$$\text{Initial investment of A} = 4x$$

$$\text{Initial investment of C} = 5x$$

$$\text{Initial investment of B} = 120/100 * 5x = 6x$$

$$\text{Profit ratio of A, B and C} = 4x * 30:(6x * 12 + (6x * 200/300 * 18)):(5x * 24 + (5x * 160/100 * 6))$$

$$= 120:144:168$$

$$= 5:6:7$$

$$A's \text{ profit share} = 5/18 * 7200 = \text{Rs.}2000$$

43) Answer: B

$$F = 4A$$

$$F - 4 = 6 * (A - 4)$$

$$4A - 4 = 6A - 24$$

$$A = 10$$

$$\text{Grandfather} = 10 * 7 = 70$$

$$\text{Father} = 4 * 10 = 40$$

$$\text{Difference} = 70 - 40 = 30 \text{ years}$$

44) Answer: E

$$CP = 5x$$

$$MP = 9x$$

$$SP \text{ of laptop} = 9x * 80/100 * 75/100 = 5.4x$$

$$\text{New SP of laptop} = 9x * 65/100 = 5.85x$$

$$5.85x - 5.4x = 180$$

$$x = 400$$

$$SP \text{ of laptop sold at 30\% of profit} = 130/100 * (5 * 400)$$

$$= \text{Rs.}2600$$

45) Answer: B

$$CI = (x + 1000) * (1 + 10/100)^2 - (x + 1000)$$

$$= (x + 1000) * 21/100$$

$$SI = x * 15 * 3/100 = 45x/100$$

$$45x/100 - 21x/100 - 210 = 750$$

$$24x/100 = 960$$

$$x = 4000$$

46) Answer: A

$$\text{Number of male graduates} = 5/8 * 20000 = 12500$$

$$\text{Number of male post graduates} = 11/20 * 15000 = 8250$$

$$\text{Required total} = 12500 + 8250 = 20750$$

47) Answer: A

$$\text{Number of literate people in B} = 125/100 * (25000 + 18000) = 53750$$

$$\text{Number of illiterate people in B} = 53750 * 3/5 = 32250$$

48) Answer: C

Total number of people in A = $120/100 * (30000 + 25000)$
 = 66000
 Number of male population in A = $5/8 * 66000 = 41250$

49) Answer: B

Required % = $(30000 + 25000)/(35000 + 40000) * 100$
 = 73%

50) Answer: D

Number of post graduates in F = $7/5 * 25000 = 35000$
 Number of graduates in F = $4000 + 25000 = 29000$
 Number of female graduates in F = $1/4 * 29000 = 7250$
 Number of female post graduates in F = $2/5 * 35000 = 14000$
 Required total = $14000 + 7250 = 21250$

51) Answer: C

$x^2 - 15x + 54 = 0$
 $x^2 - 6x - 9x + 54 = 0$
 $x(x - 6) - 9(x - 6) = 0$
 $x = 6, 9$
 $y^2 - 4y - 117 = 0$
 $y^2 - 13y + 9y - 117 = 0$
 $y(y - 13) + 9(y - 13) = 0$
 $y = 13, -9$

Relationship between x and y cannot be established.

52) Answer: B

$x^2 - 5x - 204 = 0$
 $x^2 - 17x + 12x - 204 = 0$
 $x(x - 17) + 12(x - 17) = 0$
 $x = 17, -12$
 $y^2 + 27y + 180 = 0$
 $y^2 + 12y + 15y + 180 = 0$
 $y(y + 12) + 15(y + 12) = 0$
 $y = -12, -15$
 $x \geq y$

53) Answer: E

$x^2 + 2x - 99 = 0$
 $x^2 + 11x - 9x - 99 = 0$
 $x(x + 11) - 9(x + 11) = 0$
 $x = 9, -11$
 $y^2 - 19y + 90 = 0$
 $y^2 - 9y - 10y + 90 = 0$
 $y(y - 9) - 10(y - 9) = 0$
 $y = 9, 10$
 $x \leq y$

54) Answer: A

$x^2 + x - 182 = 0$
 $x^2 + 14x - 13x - 182 = 0$
 $x(x + 14) - 13(x + 14) = 0$
 $x = 13, -14$
 $y^2 + 31y + 240 = 0$
 $y^2 + 16y + 15y + 240 = 0$
 $y(y + 16) + 15(y + 16) = 0$
 $y = -16, -15$
 $x > y$

55) Answer: E

$$2x^2 - 13x + 20 = 0$$

$$2x^2 - 8x - 5x + 20 = 0$$

$$2x(x - 4) - 5(x - 4) = 0$$

$$x = 2.5, 4$$

$$y^2 - 17y + 52 = 0$$

$$y^2 - 13y - 4y + 52 = 0$$

$$y(y - 13) - 4(y - 13) = 0$$

$$y = 13, 4$$

$$x \leq y$$

56) Answer: A

$$x^2 - 40x + 384 = 0$$

$$x^2 - 24x - 16x + 384 = 0$$

$$x(x - 24) - 16(x - 24) = 0$$

$$x = 24, 16$$

$$y^2 - 26y = -168$$

$$y^2 - 14y - 12y + 168 = 0$$

$$y(y - 14) - 12(y - 14) = 0$$

$$y = 14, 12$$

$$x > y$$

57) Answer: E

$$\text{Side of a square} = (400)^{(1/2)} = 20 \text{ cm}$$

$$\text{Perimeter of the square} = 20 * 4 = 80 \text{ cm}$$

$$\text{Perimeter of a rectangle} = 80 + 6 = 86 \text{ cm}$$

$$2 * (x + 5 + x - 2) = 86$$

$$2x = 40$$

$$x = 20$$

$$\text{Area of the rectangle} = (20 + 5) * (20 - 2)$$

$$= 450 \text{ cm}^2$$

58) Answer: C

$$\text{Length of train} = x$$

$$\text{Speed of train} = y$$

$$x = y * 5/18 * 20.25$$

$$x = 5.625y$$

$$x + 150 = y * 5/18 * 27$$

$$2x + 300 = 15y$$

$$5.625y * 2 + 300 = 15y$$

$$y = 80 \text{ kmph}$$

59) Answer: E

$$\text{Let speed of the boat in still water} = B \text{ kmph}$$

$$x/(B - 7) = t$$

$$t * (B - 7) = x$$

$$(x + 40)/(B + 7) = t - 4$$

$$(B + 7) * (t - 4) = x + 40$$

$$((B + 7) * (t - 4)) - 40 = t * (B - 7)$$

Data inadequate

60) Answer: C

$$\text{Milk in the vessel} = 56 \text{ liters}$$

$$\text{Water in the vessel} = 56 * 1/4 = 14 \text{ liters}$$

$$(56 - 15 * 4/5)/(14 - 15 * 1/5 + x) = 11/6$$

$$(56 - 12)/(14 - 3 + x) = 11/6$$

$$44/(11 + x) = 11/6$$

$$264 = 121 + 11x$$

$$143 = 11x$$

$$x = 13 \text{ liters}$$

Directions (61-65):

Ceiling Fans:

$$\text{Number of ceiling fans sold by shop A} = x$$

$$\text{Number of ceiling fans sold by shop B} = 2x$$

$$\text{Number of ceiling fans sold by shop C} = 2x * 60/100 = 1.2x$$

$$\text{Number of ceiling fans sold by shop D} = 1.2x * 100/80 = 1.5x$$

$$1.5x - 1x = 90$$

$$x = 180$$

Number of ceiling fans sold by shop A = 180

Number of ceiling fans sold by shop
 $B = 2 \times 180 = 360$

Number of ceiling fans sold by shop
 $C = 1.2 \times 180 = 216$

Number of ceiling fans sold by shop
 $D = 1.5 \times 180 = 270$

Table Fans:

Total number of table fans sold by all four
shops = $175 \times 4 = 700$

Number of table fans sold by shop C = y

Number of table fans sold by shop A = 2y

Number of table fans sold by shop
 $D = 2y \times \frac{4}{5} = \frac{8y}{5}$

Number of table fans sold by shop B = $\frac{8y}{5} + 80$

$$y + 2y + \frac{8y}{5} + \frac{8y}{5} + 80 = 700$$

$$3y + \frac{8y}{5} + \frac{8y}{5} = 620$$

$$31y = 3100$$

$$y = 100$$

Number of table fans sold by shop A = $2 \times 100 = 200$

Number of table fans sold by shop
 $B = \frac{8 \times 100}{5} + 80 = 240$

Number of table fans sold by shop C = 100

Number of table fans sold by shop

$$D = \frac{8 \times 100}{5} = 160$$

Shop	Number of ceiling fans sold	Number of table fans sold	Total number of fans sold
A	180	200	380
B	360	240	600
C	216	100	316
D	270	160	430

61) Answer: B

$$\text{Required difference} = 360 + 240 - 270 - 160 = 170$$

62) Answer: D

25% of number of table fans sold by shop
 $B = \frac{240}{4} = 60$

75% of number of table fans sold by shop
 $B = 240 - 60 = 180$

CP of each table fan = 5x

$$60 \times 7x + 180 \times 6x = 150000$$

$$420x + 1080x = 150000$$

$$7x + 18x = 2500$$

$$x = 100$$

CP of each table fan = $5 \times 100 = \text{Rs. } 500$

63) Answer: C

$$\text{Required average} = \frac{(180 + 216 + 270)}{3} = \frac{666}{3} = 222$$

64) Answer: A

Total number of fans sold by shop
 $E = \frac{430 \times 120}{100} = 516$

Number of table fans sold by shop
 $E = \frac{160 \times 9}{8} = 180$

Number of ceiling fans sold by shop E=516-180=336

65) Answer: B

Number of table fans sold by shops C and D=100+160=260

Required percentage=(360-260)/360*100=60/360 *100=28% more

Directions (66-70):

66) Answer: A

67) Answer: B

68) Answer: E

69) Answer: E

70) Answer: E

Final Arrangement

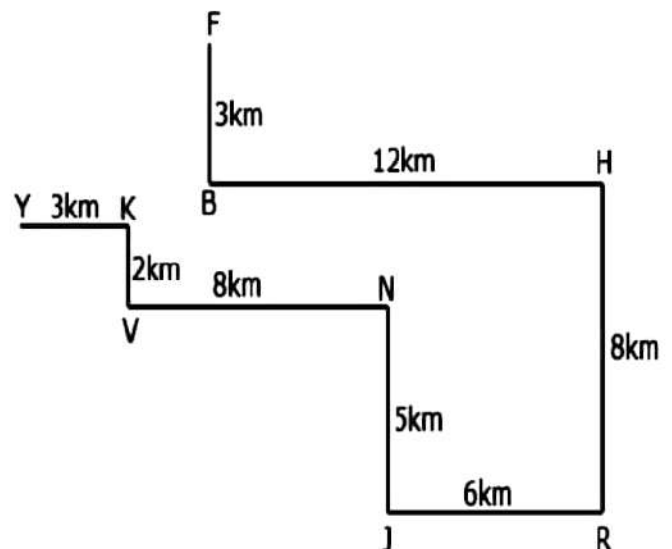
Month with date	Persons
January 9	P
January 11	M
May 9	R
May 11	T
August 9	L
August 11	S
October 9	N
October 11	U
December 9	O
December 11	Q

Directions (71-73):

71) Answer: C

72) Answer: B

73) Answer: D



74) Answer: E

By using V, I, H, E, one meaningful word **HIVE** can be formed. The last letter of the word is E

75) Answer: E

Directions (76-80):

76) Answer: A

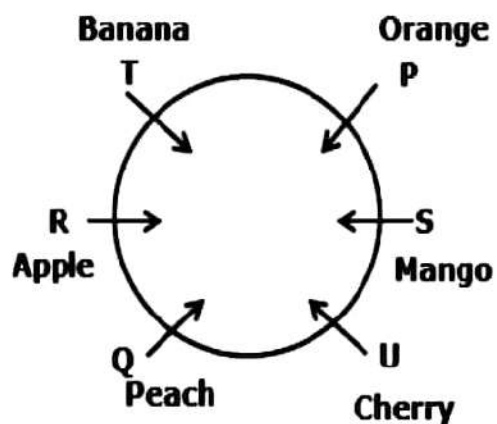
77) Answer: A

78) Answer: D

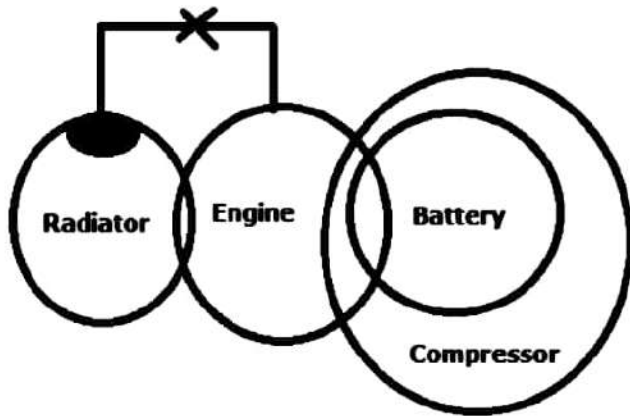
79) Answer: B

80) Answer: D

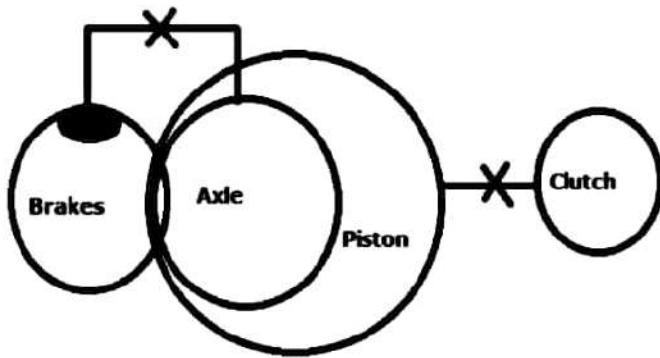
Final Arrangement



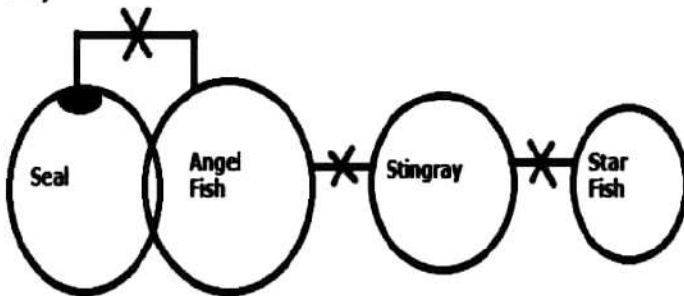
81) Answer: C



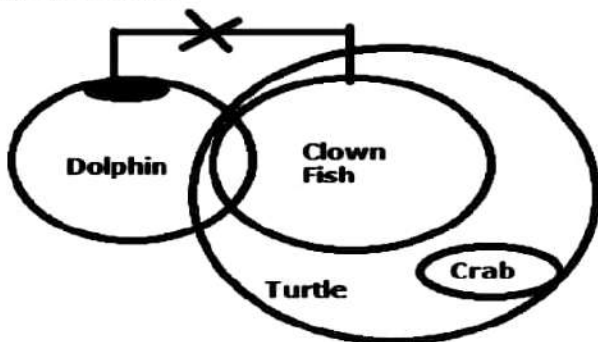
82) Answer: A



83) Answer: A



84) Answer: E



Direction (85-89):

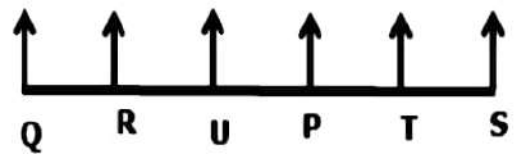
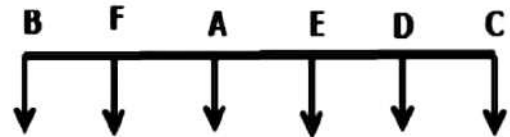
85) Answer: A

86) Answer: E

87) Answer: A

88) Answer: E

89) Answer: C

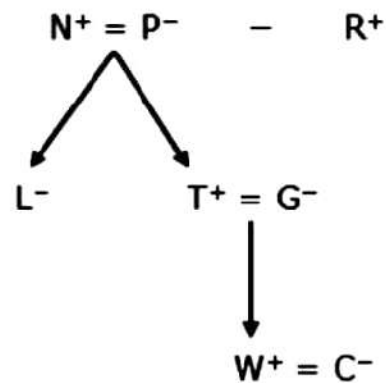


Direction (90-92):

90) Answer: D

91) Answer: B

92) Answer: C



Directions (93-95):

93) Answer: E

94) Answer: A

95) Answer: D

U>T(150)>S>P>R(120)>Q

Direction (96-100):

96) Answer: C

97) Answer: D

98) Answer: B

99) Answer: D

100) Answer: B

Department	Purchase	Manufacture	Sales
Person	J, N, P	I, L, M, Q	K, O, R