

REASONING ABILITY

Direction (1-5): Study the following information carefully and answer the questions given below:

Seven persons i.e. P, Q, R, S, T, U, V of different ages i.e. 6, 15, 19, 23, 30, 45, 60 years are sitting in a circular table facing towards center.

Note- No two consecutive letters are in alphabetical order. Person's age must not be a factor or a multiple of sum of the ages of their immediate neighbors.

R sits immediate right of the person whose age is 15. One person sits between T and R (either left or right). One person sits between P and the person whose age is 6 (either left or right). Age of T is twice the age of the person who sits 2nd to the right of T. Difference between the age of the immediate neighbors of V is more than 14. Age of U must not be multiple of 10. Sum of the ages of immediate neighbors of R is 34. Q is younger than P.

1. What is the age of Q?
 (a) 15 (b) 60 (c) 23
 (d) 6 (e) None of these
2. Who among the following sits 2nd to the left of the person whose age is 19 years?
 (a) U (b) V (c) P
 (d) Q (e) None of these
3. Which of the following is true?
 (a) S's age is 60 years
 (b) R is younger than Q
 (c) U sits immediate right of P
 (d) V's age is 19
 (e) None is true
4. What is the position of V with respect to P?
 (a) Immediate left
 (b) Immediate right
 (c) 2nd to the left
 (d) 2nd to the right
 (e) None of these
5. Who among the following is oldest person?
 (a) Q (b) P (c) U
 (d) V (e) None of these

Direction (6-8): Study the following information carefully and answer the questions given below:
 Books which have different number of pages is shown below with their codes.

Pages	Step I	Step II	Codes
210	42	168	56
60	12	48	16
240	48	192	64
150	30	120	40
180	36	144	48
231	77	154	22
147	49	98	14
273	91	182	26
441	147	294	42
357	119	238	34

If number of pages in different books are 90, 120, 270, 300, 330, 315, 231, 567, 399, 525 then find the codes of these books as per the above-mentioned operations and placed these books in two different stores i.e. A and B. Arrange all codes in ascending order. After arranging the codes, first five codes are placed in store A and last five are placed in store B. Now, answer the given questions-

6. Which of the following page book have highest code in store A?
 (a) 315 (b) 120 (c) 399
 (d) 525 (e) 567
7. Which of the following pages book is not in store B?
 (a) 270 (b) 300 (c) 330
 (d) 525 (e) 315
8. What is the difference in the codes of 2nd lowest code in store A and 2nd highest code in store B?
 (a) 66 (b) 56 (c) 64
 (d) 58 (e) None of these

Direction (9-10): Study the following information carefully and answer the questions given below:

P@Q means P is neither smaller nor equal to Q
 P\$Q means P is not smaller than Q
 P%Q means P is not greater than Q
 P*Q means P is neither smaller nor greater than Q
 P#Q means P is neither greater nor equal to Q

9. **Statements:** A\$B%F#D, Y@M*F
Conclusion I: B#M **II:** A%Y **III:** Y@B
 (a) Only I follow
 (b) Only II follows
 (c) Only III follows
 (d) I and III follows
 (e) I and II follows

- 10. Statements:** M*J%G\$B#X@L, S%U\$N@M
Conclusion I: S#L **II:** J#U **III:** G@N
 (a) Only I follow
 (b) Only II follows
 (c) Only III follows
 (d) I and III follows
 (e) I and II follows

Direction (11-13): Study the following information carefully and answer the questions given below:
 P@Q means P is married to Q
 P#Q means P is parent of Q
 P&Q means P is sibling of Q and both are of same gender
 P\$Q means P is sibling of Q and both are of different gender
 P+ means P is male
 P* means P is female

- 11.** If J@F*#T\$R, V@R+#B&A, F#Q#D is true and D is only niece of T then, how is Q related to B?
 (a) Uncle (b) Aunt (c) Sister
 (d) Brother (e) Can't be determined
- 12.** If J@F*#T\$R, V@R+#B&A, F#Q#D, Q+@W#N is true and D is only niece of T then, how is J related to N?
 (a) Grandfather
 (b) Grand mother
 (c) Grand son
 (d) Granddaughter
 (e) Can't be determined
- 13.** If J@F*#T\$R, V@R+#B&A, F#Q#D, Q+@W#N is true and D is only niece of T then, how many male members are in the family?
 (a) Three (b) Four (c) Five
 (d) Seven (e) Six

Direction (14-17): Study the following information carefully and answer the questions given below:

Thirteen boxes of different colors are placed one above another in alphabetical order either from bottom or from top. Each box contains different number of toffees which is multiple of 13. Maximum toffees in a box is 169.

There are equal number of boxes are placed above as well as below J. Two boxes are placed between box J and the Pink colored box. Five Boxes are placed between Pink and Yellow colored box. Box which have 13 toffees is placed just below Yellow colored box. Black colored box is placed just above Red colored box and just below the box which have 169 toffees. There are as many boxes are placed above Red colored box as below the box which have 13 toffees. White colored box is placed just above the box which have 65 toffees and just below the box which have 104 toffees. There are as many boxes are placed between the boxes which have 13 and 52 toffees as between the boxes which have 52 and 104 toffees. Two boxes are placed between Blue colored box which doesn't have 13 toffees and Green colored box which is placed just below J.

- 14.** If box F have 13 toffees, then which of the following is Pink colored box?
 (a) M
 (b) Box which have 52 toffees
 (c) G
 (d) Box which have 169 toffees
 (e) Can't be determined
- 15.** What is the sum of the toffees of Blue and Green colored box?
 (a) 273 (b) 156 (c) 117
 (d) 65 (e) Can't be determined
- 16.** If M is Yellow colored box and sum of toffees in box O and D is equal to the sum of toffees in box H and L then, what is difference between the toffees of box L and O?
 (a) 52 (b) 78 (c) 65
 (d) 91 (e) Can't be determined
- 17.** Which of the following colored box have 52 toffees?
 (a) Red (b) Pink (c) Blue
 (d) Green (e) None of these

18. Statement: "The simplest and the most cost effective way to upgrade your home—Exchange your old furniture and get 25% to 33% off on the new furniture".—An advertisement of a furniture company.

Assumptions

- I.** Now-a-days, there is no demand for furniture products unless some attractive scheme is offered.
II. Some customers always desire to have best quality and do not bother either for cost or for convenience.
III. Some customers want to keep their home up-to-date with reasonable cost and with fewer hassles.
 (a) Only I is implicit
 (b) Only II is implicit
 (c) Only III is implicit
 (d) I and II are implicit
 (e) None of these

19. Statement: The situation of this area still continues to be tense and out of control. People are requested to be in their homes only.

Assumptions

- I.** There had been some serious incidents.
II. People will not go to the office.
III. Normally will be restored shortly.
 (a) Only I is implicit
 (b) I and II are implicit
 (c) None is implicit
 (d) I and III are implicit
 (e) All are implicit

20. Statement: Should the consumption of aerated drinks be banned in India?

Arguments:

- I. Yes, this is the only way to reduce the risk of exposing people to some diseases.
 - II. No, each individual should have right to choose what he wants.
 - III. No, there is no confirmed evidence that such products have adverse effects on human body.
 - IV. Yes, it is banned in many other countries also.
- (a) Only I is strong
(b) I and II are strong
(c) Only III is strong
(d) I and IV are strong
(e) All are strong

Direction (21-23): Study the following information carefully and answer the questions given below:

P@Q means P is East of Q and the distance between P and Q is either 4m or 15m

P#Q means P is West of Q and the distance between P and Q is either 7m or 18m

P&Q means P is North of Q and the distance between P and Q is either 4m or 15m

P%Q means P is South of Q and the distance between P and Q is either 7m or 18m

J&K#L%M, B&N#M, BN<MN<KL, JK>ML

- 21.** What is the direction of K with respect to B?
(a) North-west (b) South-west (c) North-east
(d) South-east (e) Can't be determined
- 22.** If X is 11m West of B then, what is the distance between X and J?
(a) 7m (b) 4m (c) 6m
(d) 10m (e) 11m
- 23.** Four of the following five are alike in certain way and hence form a group, find the one which does not belong to that group?
(a) BM (b) BL (c) NL
(d) KN (e) JM
- 24.** Some alphabets are given below. First arrange them in alphabetical order from left to right then number them I, II, III, IV, V from left to right.
1) J, P, D, B, S
2) C, M, A, Q, X
3) W, I, T, N, O
Arrange all separately in each number. Which of the following is in alphabetical order?
(a) Only I and III
(b) Only II and IV
(c) Only II and III
(d) Only III and IV
(e) Only II, III and IV

Direction (25-29): Study the following information carefully and answer the questions given below:

Eleven seats are placed in a single row in which three seats are vacant. Persons sitting in these seats are facing North. No two vacant seats are placed adjacent to each other. Persons are of different ages. Seats are numbered 1 to 11 from West to East.

Note- Two Persons sitting between P and Q doesn't means that there are only two seats are placed between them. There may be vacant seats between them.

Three persons sit between A and B. Person who is 32 years old sits immediate left of B. D and E are immediate neighbors of A whose seat number is less than 6. B is as many years older than H as younger than D. C sits 3rd to the left of A. One person sits between G and F who is 40 years old. Sum of the age of D and G is 82. H sits immediate left of one of the vacant seats. Age of H is half the age of the person who sits at seat number 11. Persons whose age are 26 and 28 years sit at odd numbered seats. D sits left of the person whose age is 22 years and right of the person whose age is 28 years. No vacant seat is between H and the person whose age is 22 years.

- 25.** Who among the following sits at seat number 8?
(a) No one (b) G (c) B
(d) H (e) None of these
- 26.** How many persons are sitting between the persons whose age are 22 and 35 years?
(a) Four (b) Two (c) Three
(d) Five (e) None of these
- 27.** In which of the following seat the person whose age is 26 years are sitting?
(a) Seat number 3
(b) Seat number 1
(c) Seat number 5
(d) Seat number 7
(e) None of these
- 28.** Which of the following is true regarding C?
(a) C doesn't sit at seat number 1
(b) One of the vacant seats is not adjacent to C
(c) C's age is 22 years
(d) Two persons are sitting between A and C
(e) None is true
- 29.** What is the age of the person who sits 2nd to the left of the person whose age is 26 years?
(a) 28 years (b) 22 years (c) 40 years
(d) 50 years (e) None of these

Direction (30-34): Study the following information carefully and answer the questions given below:

Eight persons are working in three different cities i.e. Delhi, Pune, Hyderabad. At least two persons are working in a city. There are four married couples of two generations. Number of males and females are equal in each city.

Note- Married couples are not working in same city. They have different designations i.e. GM, AGM, CEO, Manager, Assistant Manager, PO, Clerk, Sub staff (these are in decreasing order of seniority means GM is senior most and Sub staff is junior most person).

Only three persons are senior than the only son of B. B doesn't work in Pune. E is sister in law of G who is junior most person. H is son in law of D, who is immediate senior of A. F is spouse of C and both are not working in Delhi. There are as many posts above father in law of A as below sibling of A. Only C and H are working in Hyderabad. Only PO and Sub staff are working in Delhi. Spouse of E is not working in Delhi. G is daughter in law of B who is spouse of D. F is senior than H and junior than C.

30. How many persons are junior than H?
(a) Three (b) Four (c) Two
(d) Five (e) None of these
31. Which of the following combination is true?
(a) B-PO-Delhi
(b) C-CEO-Hyderabad
(c) H-Clerk-Hyderabad
(d) F-AGM-Delhi
(e) None is true
32. Who among the following is Assistant Manager?
(a) B (b) D (c) C
(d) F (e) None of these
33. Which of the following is the designation of father of G?
(a) GM (b) AGM (c) Sub Staff
(d) Manager (e) None of these
34. Who is immediate junior as well as immediate senior of the persons who are working in Delhi?
(a) G (b) F (c) E
(d) D (e) None of these
35. **Statement-** The Blue Whale Challenge is reportedly a suicide game in which the player is given certain tasks to complete over a period of 50 days and the final task leads him or her to commit suicide. Taking a serious view of the Blue Whale Challenge game, the Madras High Court directed the Central and Tamil Nadu governments to explore possibilities of banning it.
- (I) The Bengal government is planning to introduce a separate chapter on "Responsible use of Internet," in school syllabus in view of regular reports of school children in the state becoming victims of deadly online game.
- (II) The judges suggested to the state DGP and Home Secretary that severe warning be issued to those who shared the 'dangerous' online game with others.
- (III) The court stressed on the need for creating awareness among students against playing such "dangerous" online games in educational institutions. The bench also said monitoring should be intensified to prevent further spread of the game through sharing.

(IV) State government will conduct workshops in different schools throughout the state to counsel students on the danger of playing games like Blue Whale either online or through mobile applications.

Which of the following will be the preventive course of action for reducing the impact of suicide game menace?

- (a) Only (III) and (IV)
(b) Only (II) and (III)
(c) Only (I) and (II)
(d) All of the above
(e) None of these

36. **Statement-** Brushing off the recent two-month discord with China over Doklam standoff, India displayed robust participation at the BRICS meeting in the Chinese port city of Xiamen. In their first substantive meeting post the 73-day Doklam face-off, Prime Minister Narendra Modi and Chinese President Xi Jinping held "constructive" talks during which it was reaffirmed that maintaining peace and tranquillity in the border areas was a pre-requisite for the development of India-China relations.

Which of the following can be inferred from the given statement?

- (I) Prime Minister Narendra Modi and Chinese President Xi Jinping held their first substantive bilateral meeting at the BRICS meeting after the Doklam standoff, which had put ties between the two countries under strain.
- (II) Putting behind the Doklam standoff, India and China today agreed on a "forward-looking" approach in their ties and make more efforts to ensure that such incidents do not recur.
- (III) Counter terrorism issues were taken up during the course of BRICS, which were discussed in this meeting between Modi - Xi Jinping.
- (a) Only I and II
(b) Only II and III
(c) Only I and III
(d) All of the above
(e) None of the above

37. **Statement-** After the ministerial performance report and a series of meetings with BJP Chief Amit Shah, PM Modi on 5th July made major strategic changes to his Cabinet - 19 new ministers were inducted into the Government, while 5 were sacked. Government sources conceded that with 2019 Lok Sabha polls drawing near, the concern within the government was to ensure last-mile delivery of projects which was also a reason of this expansion.

Which of the following can be hypothesized from the given statement?

- (I) The Modi government has received criticism from the Opposition for its failures to meet its promises, particularly on job growth.

- (II) This Cabinet reshuffles and expansions can generally be categorised as tactical or strategic.
- (III) The makeover of the union cabinet shows the BJP has a clear eye on the coming 2019 Lok Sabha showdown.
- (a) Only (I) and (III)
 (b) Only (II) and (I)
 (c) Only (III) and (II)
 (d) Only (II)
 (e) None of these

Direction (38-40): Study the following information carefully and answer the questions given below:

Phrase	Step I	Step II	Step III	Step IV
lost all important contacts	tosl lla tmpportani sontactc	os5 la2 ti8 ta9	pr# kb@ sj@ sb#	rb# ks@
divert metro work traffic	tiverd oetrm korw craffit	ve7 om4 or5 ct6	uf# pl@ pq# bs@	fq# pb@
order statue received again	rrdeo etatus deceiver ngaia	ro4 at7 ei9 na4	qp@ bs# fj# mb@	qm@ sj#

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given phrase.

Phrase- recover that device issue

38. What is the step IV of this phrase?
 (a) qf# gj@ (b) qj# bu@ (c) qf# bj@
 (d) bj# qf@ (e) None of these
39. What is the 2nd element from left in step III?
 (a) qq# (b) gb# (c) qg@
 (d) qb# (e) None of these
40. What is the sum of the numbers in 2nd and 4th element from left in step II?
 (a) 8 (b) 7 (c) 9
 (d) 6 (e) None of these

Directions (41-45): Read the following information carefully and answer the questions given below it.

Eight persons R@, R#, R\$, R&, R%, R*, R© and RΩ are sitting around a hollow circular table such that R&, R\$, R# and RΩ sit on the inner side of the table and the rest are sitting on the outer side of the circular table and they all

are facing away from the center. The persons sitting on the inner side of the circular table are sitting just behind the persons sitting on the outer side of the circular table and all are graduated from different universities i.e. HTS, UGI, LPU, HNB, KPJ, UPI, NIT and FPT. All the information is not necessarily in the same order.

The one who is graduated from KPJ sits just behind the one who sits second to the left of the one who is graduated from UPI. RΩ sits just behind the R*. R% who is graduated from UGI sits opposite to the one who sits at the immediate left of R©. R& is not graduated from FPT. The one who is graduated from HTS sits at the immediate left of the one who is graduated from LPU. The one who is graduated from KPJ sits just behind the R©. RΩ sits at the immediate right of R&. The persons who are graduated from FPT and HNB are sitting on the same table and sit opposite to each other. R& sits just behind the one who is graduated from UGI. R\$ is not graduated from FPT.

41. Who among the following is graduated from HTS?
 (a) R@ (b) RΩ (c) R&
 (d) R# (e) None of these
42. Which among the following statement is not true?
 (a) RΩ is graduated from NIT
 (b) R\$ sits just behind the one who is graduated from LPU
 (c) R# is graduated from FPT
 (d) R% sits at the outer circular table
 (e) All are true
43. How many persons are sitting between R* and R% when counted from right of R*?
 (a) One (b) Two (c) None
 (d) None of these (e) Can't be determined
44. Four of the following five are alike in a certain way and hence form a group, which of the following does not belong to the group?
 (a) R% (b) R© (c) R*
 (d) RΩ (e) R@
45. Who among the following is sitting third to the right of the one who is sitting just behind the R©?
 (a) The one who is graduated from KPJ
 (b) R&
 (c) The one who is sitting at the immediate left of R\$
 (d) RΩ
 (e) None of these

QUANTITATIVE APTITUDE

Directions (46-50): Given data is regarding three automatic toys on two types of movements: Neck movements (NM) and Hand rotation (HR). It starts recording from 9 AM onwards on 12 June. Each toy has different battery percentage and battery capacity.

Toy A: Battery Capacity = 1500 units, Battery Percent = 80%

At every 4th NM and 3rd HR together, 1 unit of battery is consumed. Toy A gets completely discharged at 11 AM.

Toy B: Battery Capacity = 2000 units, Battery percent = 75%

NM = 30/min, HR/min = 50% of NM/min of toy A. At every 3rd NM and 2nd HR together, 1 unit of battery is consumed.

Toy C: Battery Capacity = 120% of battery capacity of toy B, Battery Percent = 60%

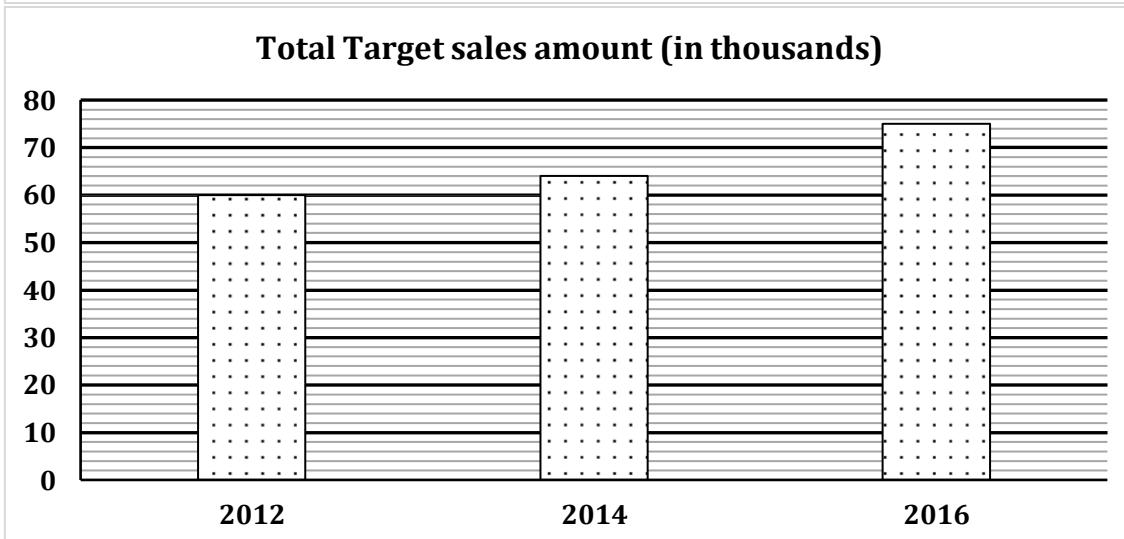
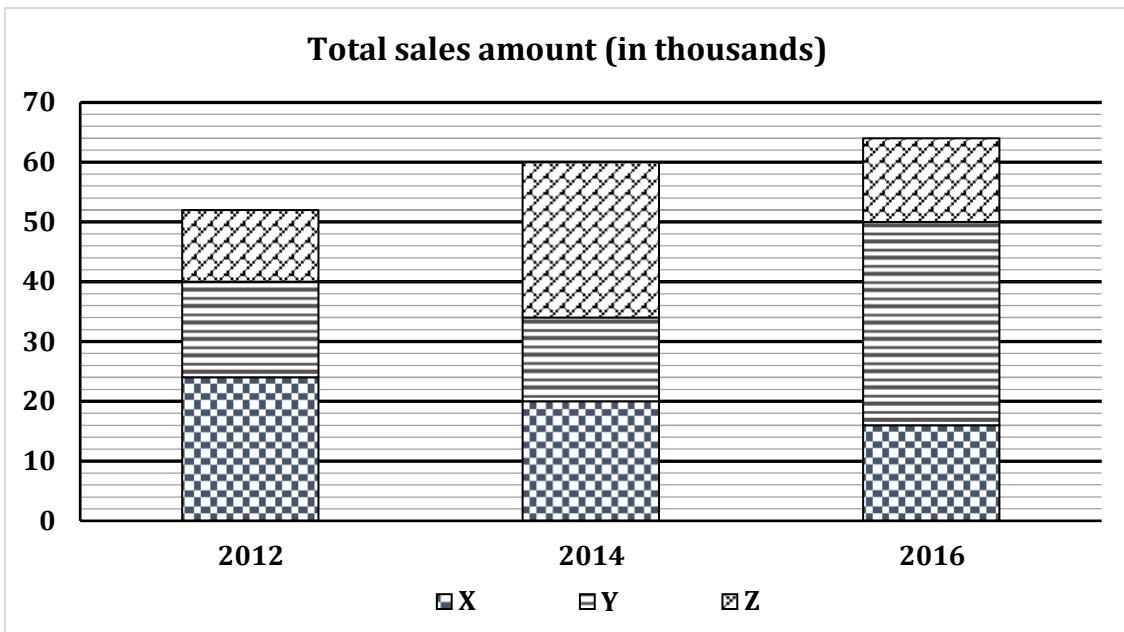
NM/min = NM/min of toy A + 5, HR = 30/min. at every 3rd NM and 2nd HR together, 1 unit of battery is consumed.

46. If toy B & A had been charged completely (100%), then what would be the difference between time taken by both the toys to get discharged completely?
 (a) 50 min (b) 90 min (c) 0 min
 (d) 15 min (e) 10 min
47. What is the difference between total NM and HR of toy C when the battery of toy C gets completely discharged? (consider available battery percent)

- (a) 1620 (b) 1440 (c) 1920
 (d) 1200 (e) 1280

48. If power consumed per NM of toy B is 0.1 unit, then what is power consumed per HR of toy B on that day?
 (a) 0.45 unit (b) 0.35 unit (c) 0.15 unit
 (d) 0.2 unit (e) 0.8 unit
49. Total number of NM/min of all the three toys together is what percent more than total number of HR/min of all the three toys together?
 (a) 63.5% (b) 52.25% (c) 46.5%
 (d) 48.25% (e) 43.75%
50. If toy C would be 100% charged then at what time battery of toy C will drain completely?
 (a) 11:30 AM (b) 11:45 AM (c) 11:35 AM
 (d) 11:40 AM (e) 11:50 AM

Directions (51-55): first bar graph shows total sales amount of three different companies in three different years and second bar graph shows the combined target sales amount of these 3 companies in these 3 years.



51. If sales amount of company X and Y in 2012 increases by 20% and 25% respectively and sales amount of company Z remains constant, then find the difference between total target sales amount of all these companies in 2012 and sales amount of these 3 companies together as per the above condition?(in Rs.)
 (a) 800 (b) 8000 (c) 8800
 (d) 6000 (e) 3000
52. If the ratio of sales amount of company Y in 2016 to that of in 2018 is 17:15, then find the average of sale amount of company Y in 2014, 2016 and 2018?(in Rs.)
 (a) 24000 (b) 25500 (c) 27000
 (d) 26000 (e) 26500
53. If the total target sales amount of all companies together in 2018 is 20% more than that of in 2016 and sales amount of company X and company Y in 2018 increases by 50% and 20% respectively than that of

in 2016, then find by what percent sales amount of company Z be increased from 2016 to 2018 just to meet the total target sales amount of all companies together in 2018?

- (a) 70% (b) 80% (c) 75%
 (d) 50% (e) 90%

54. Sales amount of company Y in 2014 is what percent of total target sales amount of all companies together in 2016?

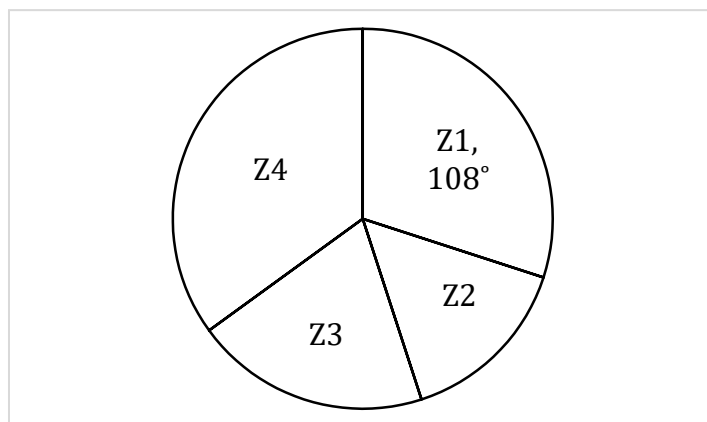
- (a) $11\frac{1}{9}\%$ (b) $14\frac{2}{7}\%$ (c) $18\frac{2}{3}\%$
 (d) $8\frac{1}{3}\%$ (e) $16\frac{2}{3}\%$

55. Total sales amount of X in 2012, 2014 and 2016 together is how much more/less than the total sales amount of Z in the same years?(in Rs.)

- (a) 11000 (b) 9000 (c) 7000
 (d) 10000 (e) 8000

Directions (56-60): Given Pie Chart shows the number of total voters registered from 4 different villages and all registered voters from these four villages cast their votes.

Total Voters = Valid Voters + Invalid Voters



- (i) Total number of valid voters in village Z3 is one-third more than the difference of that of from village Z1 & Z2.
 (ii) Difference of valid voters from village Z4 and Z2 is 480. Ratio of total voters from village Z2 and that of Z4 is 3 : 7 respectively.
 (iii) Total voters in village Z3 are more than that of Z2. Total invalid voters from all the villages together are 20% of total registered voters from all the villages.
56. What is the central angle corresponding to total voters in village Z2?
 (a) 72° (b) 54° (c) 60°
 (d) 75° (e) 66°
57. If there are 10800 registered voters in village Z2 of which 98% votes were valid. What can be the difference between valid & invalid votes from village Z4? (use information of the above questions).
 (a) 960 (b) None of these (c) 4992
 (d) Both (b) & (e) (e) 3072
58. What is the central angle corresponding to valid votes from village Z3? (use information of the above questions).
 (a) 75° (b) 82° (c) 108°
 (d) 60° (e) 95°
59. If there were total 4000 invalid voters from village Z2 & Z1 in the ratio of 9 : 11 respectively and 20% of the votes from village Z2 were found invalid then, find the difference between registered voters of Z3 and Z4? (use information of the above questions).
 (a) 10000 (b) 9000 (c) 11000
 (d) 9500 (e) 10500
60. If valid voters from Z4 are more than that of from Z2 and valid voters from Z2 are 3600. Total valid voters from Z1 & Z4 are 10800. How many valid voters are from Z3?
 (a) 5300 (b) 3120 (c) 4160
 (d) None of these (e) 4080

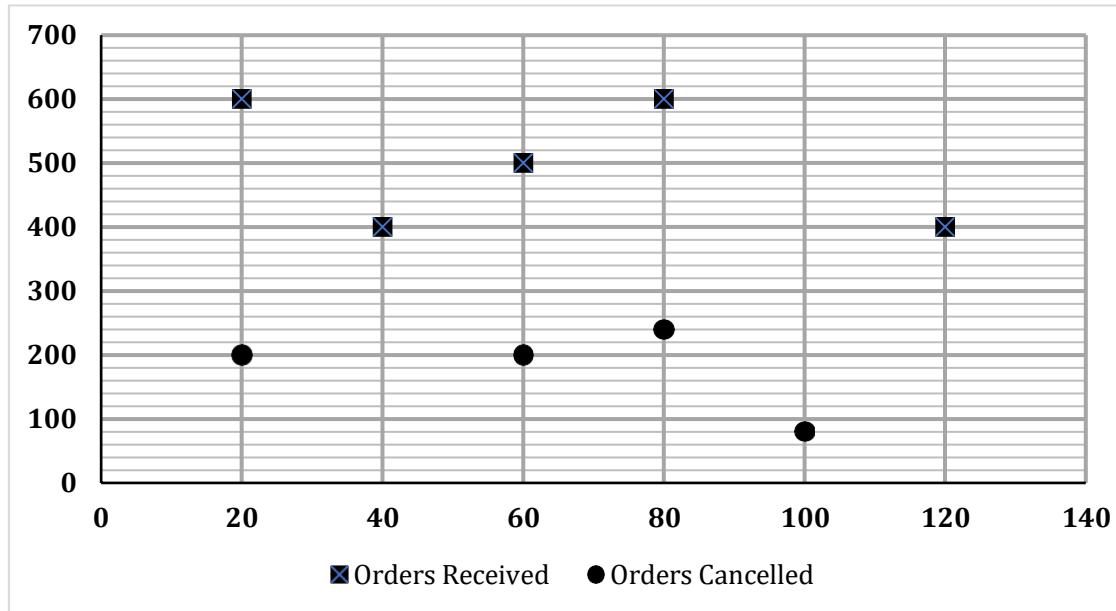
Directions (61-65): Given graph shows the number of orders received and cancelled on particular days of a week (From Monday to Saturday) while the table shows the number of orders which were not delivered. Read the data carefully and answer the questions.

(NOTE: Refer Y-Axis values as number of orders while X-Axis values as Days i.e. 20 = Monday, 40 = Tuesday and so on) (Orders continued/booked are those which are not cancelled)

Some data is missing in the given graph.

Orders Booked = Orders Received – Orders Cancelled

Orders Delivered = Orders Booked – Orders not delivered



Number of orders not delivered	
Monday	120
Tuesday	80
Wednesday	160
Thursday	300
Friday	200
Saturday	120

61. what is the difference between number of orders delivered on Monday & Wednesday together and number of orders booked on Wednesday & Thursday together?
 (a) 300 (b) 280 (c) 320
 (d) 240 (e) 260
62. if orders booked on Tuesday are 50 more than that of Saturday while the sum of orders cancelled on these days is 30 more than orders not delivered on same days then by what percent orders cancelled on Tuesday are more/less than orders cancelled on Friday?
 (a) 37.5% (b) 12.5% (c) 11.11%
 (d) 18.75% (e) 31.25%
63. if total orders received on last 3 days are 150 more than total orders received on first 3 days and orders delivered on Friday are more than that on Saturday then what can be the difference between orders cancelled on Saturday and orders delivered on Thursday? ($Z > 60$)
 A. 28 B. 49 C. 23 D. 40 E. 17 F. 37
 (a) A, C, E (b) A, C, F (c) B, D, F
 (d) all of these (e) A, C, D, E, F
64. if orders delivered on Tuesday are $33\frac{1}{3}\%$ less than orders booked on Thursday while average of orders delivered on Friday & Saturday is 195 and orders booked on Friday are more than orders delivered on Saturday then which of the following is definitely true?
 (a) orders cancelled on Tuesday are more than that on Friday.
 (b) difference between orders cancelled on Tuesday & Saturday is 322.
 (c) orders delivered on Friday are always more than orders received on Wednesday.
 (d) difference between orders delivered on Monday & Friday can be 160.
 (e) more number of orders were cancelled on Friday than number of orders not delivered on Friday.

65. if ratio of orders received on Thursday & Friday together to orders delivered on Monday, Wednesday & Saturday together is 65 : 34 and orders cancelled on Tuesday are 10% less than that on Wednesday and orders cancelled on Saturday is same as difference between orders not delivered on Friday and orders cancelled on Tuesday then how many total orders were booked in these 6 days together?
 (a) 2850 (b) 2450 (c) 2280
 (d) None of these (e) 2170

Directions (66-70): Read the data carefully and answer the questions. Some data are missing which you have to calculate as per information provided in the questions.

Position	No. of applications received	No. of duplicate applicants	Average no. of duplicate applications received from duplicate applicants
A	1040	63	4
B	880	--	6
C	600	28	--
D	--	48	--
E	420	--	--

NOTE:- A duplicate applicant is an applicant who has submitted additional (duplicate) application after submitting their original application. All application forms (original + duplicate) received from duplicate applicant were rejected. Remaining all application were accepted. None of the applicants applied for more than one post.

66. For position A, if respective ratio between no. of accepted application from males & that of rejected applications from males is 5 : 3 & respective ratio of no. of accepted applications from females and that of rejected applications from females is 5 : 1 then find rejected applications from males.
 (a) 230 (b) 315 (c) 425
 (d) 255 (e) 300
67. For position E, no. of accepted applications from males, from females & no. of rejected applications (total) are X, X + Y, X + 2Y respectively. Which of the following is true? (average no. of duplicate applications received from duplicate applicant is non-zero integer)
 A. no. of accepted applications from males for E can be 139.
 B. no. of accepted applications from males for E can be 141.
 C. no. of accepted applications from males for E can be 131.
 (a) C (b) A & B (c) A & C
 (d) B (e) A

68. If average no. of accepted applications for position A & B is 659. What is the value of rejected applications for position B?
 (a) 287 (b) 246 (c) 254
 (d) 275 (e) 263
69. For position D, if respective ratio of accepted & rejected applications is 4 : 1. Which of the following can be true? (average number of duplicate applications received for D is a non - zero integer)
 A. no. of applications received for D (all original + all duplicate) can be 240.
 B. no. of applications accepted for D can be 768.
 C. least no. of applications (all original + all duplicate) were received for D is a possibility.
 (a) only B & C
 (b) none of the option
 (c) only C
 (d) only A & C
 (e) only B
70. for position C, no. of accepted applications from males is between 150 & 200 while that of females is between 130 & 180. Which of the following can be a possible value (s) of average no. of duplicate applications submitted by duplicate applicants for position C?
 A. 11 B. 5 C. 9 D. 13 E. 7
 (a) B, C & E (b) C & E (c) A & D
 (d) B & E (e) A, C & D

Directions (71-72): Given below is no. of male & female students in classes A, B & C. some data are missing which you have to calculate as per instructions provided.

	A	B	C
Boys	50	--	--
Girls	--	80	60

NOTE:

- (i) probability of selecting a boy from class A is $\frac{5}{12}$,
 (ii) probability of selecting a boy from all the boys of all classes is $\frac{14}{19}$ such that the boy selected is either from class B or class C.
 (iii) probability of selecting a boy from class B is equal to probability of selecting a boy from class C.
71. how many boys are in class C?
 (a) 60 (b) 50 (c) 70
 (d) 80 (e) 90
72. By what percent total students in class B are more than that of in class A?
 (a) $16\frac{2}{3}\%$ (b) $37\frac{1}{2}\%$ (c) 25%
 (d) $33\frac{1}{3}\%$ (e) None of these

73. Given below is the series in which one number is wrong. Consider this wrong number as the value of A in the second series and find the value of D based on the pattern of first series

1, 3, 6, 21, 88, 445, 2676

(A), (B), (C), (D)

- (a) 685 (b) 136 (c) 33
(d) 10 (e) 30

Directions (74-78): Read the following information carefully and answer the questions.

x women can complete a piece of work in 2y days. 1.5x men can complete the same work in y days while 2x children can complete the same work in 3y days. 8 women, 8 children and 8 men together can complete same work in $22\frac{1}{2}$ days. 9 men can complete the same work in (y + 20) days.

74. What is the value of y.

- (a) 14 (b) 18 (c) 20
(d) 16 (e) 24

75. If 36 women started the work and after 4 days 30 women are replaced by 8 men then, find the total time in which work will be completed.

- (a) $20\frac{4}{25}$ days (b) $22\frac{3}{25}$ days (c) 12 days
(d) 12.5 days (e) $24\frac{4}{25}$ days

76. Find the value of x.

- (a) 12 (b) 14 (c) 10
(d) 15 (e) 11

77. When 8 women, 8 children and 8 men work together and completed the work, then what percentage of total work is completed by children.

- (a) 16% (b) 10% (c) 15%
(d) 8.33% (e) 12.5%

78. (x - 6) women worked for (y - 6) days and (x - 6) men worked for (y - 10) days then in what time remaining work will be completed by (x - 6) children.

- (a) $152\frac{2}{3}$ days (b) $148\frac{1}{3}$ days (c) 145 days
(d) 154 days (e) 158 days

Directions (79-80): Read the following information carefully and answer the questions.

There are some students (male + female) in Class A and Class B in CCA School. In class A, females are 30% of total students of class A. In class B, number of male and female students are equal and male students in class B are thrice the number of female students of Class A.

79. If male students passed in Class A and Class B are in ratio 1:3 respectively and failed male students of class A and Class B are equal, then total male students who got passed from both classes together are what percent of total students of both the classes?

- (a) $9\frac{1}{11}\%$ (b) $11\frac{1}{2}\%$ (c) $14\frac{2}{7}\%$
(d) $8\frac{1}{3}\%$ (e) $6\frac{2}{3}\%$

80. If 10% of male students and 20% of female students from Class A left the school and male and female students in class B increased by 25% and 30% respectively, then total male students of Class A and B together are approximately what percent of total students of Class A and B together?

- (a) 55.45% (b) 45.45% (c) 55.15%
(d) 45.15% (e) 50%

ENGLISH LANGUAGE

Directions (81-83): Read the following passage and answer the following questions based on the given passage.

The inflation devil is back and at the wrong time. The 7.35% rise in consumer price inflation in December is a shocker even to those who were prepared for an elevated level of inflation in the backdrop of the rise in prices of food commodities in general, and the astronomical rise in the price of onions, in particular. The disturbing December print has set off fears over whether India is entering a period of slow growth accompanied by high inflation, in other words, stagflation. Such fears have to be weighed against a few facts. First, the headline inflation number is driven mainly by food inflation at 14.12% — it was 10.01% in November and -2.65% in December 2018. While onion was the prime villain pushing up price inflation in vegetables to a huge 60.50% compared to December 2018,

prices of other food items such as meat and fish (up 9.57%), milk (up 4.22%), eggs (up 8.79%) and some pulses were also on the upswing. These are a largely seasonal rise in prices and are driven mainly by supply-side factors and the prices will reverse once the supply shortfall is addressed. Second, core inflation, which is the one that should be of concern, has only inched up marginally from 3.5% in November to 3.7% in December. That said, it would be worrisome indeed if core inflation were to shoot up or if food inflation does not cool down in the next couple of months.

The sharp jump in the CPI has **queered the pitch** for the Reserve Bank of India's monetary policy review in February. The central bank stood pat on rates in the December policy precisely due to fears of inflation and had even revised upwards its inflation projection for the second half of the fiscal to 4.7-5.1%. The December print is

way above the monetary policy committee's (MPC) mandated limit of 6% (4% plus 2%) which means that a rate cut is pretty ***much off the table*** for now. Yet, with growth sagging, there is pressure on the central bank to cut rates at least one more time to stimulate growth. It would be interesting to watch the deliberations of the MPC in February. While the market may be prepared to accept a standstill policy for now, any change in the RBI's stance from accommodative to neutral may not go down well. A lot would also depend on the fiscal arithmetic that would emerge from the budget to be presented on February 1. Meanwhile, the government should engage all levers to address the supply-side issues that are behind the rise in food inflation. A calming down of food prices will help the bank do what the government and markets want — lower rates.

81. Which of the following can be inferred in context of the phrase "***queered the pitch***", as highlighted in the above passage?
- (a) With the inflation figures are rising, it has become difficult to address the challenges now faced in setting policy rates to sustain the growth of the Indian economy.
 - (b) The MPC is expected to announce the consecutive rate cut to boost economic activity amid benign inflation.
 - (c) both (a) and (d)
 - (d) Owing to the steady rise of CPI inflation, RBI will have to face the challenge in its upcoming meeting, to decide to whether to cut the policy rates or keep them unchanged.
 - (e) None of these
82. Which of the following situations can be related with STAGFLATION, as mentioned in above passage?
- (a) General decline in the prices of goods and services in an economy, which in turn increase the purchasing power of money.
 - (b) Rising food prices caused by increased demand for agricultural commodities.
 - (c) An economy experiencing falling productivity along with workers becoming more inefficient; leading to increased costs and reduced output.
 - (d) None of these
 - (e) All of the given situations are correct
83. Which of the following is not true in context of the information given in the above passage?
- (a) The increase in core inflation has not been as high as increase in CPI inflation
 - (b) During the December monetary policy review, RBI had largely left the rates fluctuating.
 - (c) Addressing the issues that led to inflation in food commodities can marginally reduce the intensity of burden created by the current situation.
 - (d) both (a) and (b)
 - (e) All are correct

Directions (84-87): Read the following passage and answer the following questions based on the given passage.

For years, the government of Bhutan has enshrined gross national happiness as its guiding light. Though national leaders had long eschewed traditional economic metrics like gross domestic product in favor of a more subjective understanding of development, in 2008, the country's constitution formally established that ensuring "a good quality of life for the people of Bhutan" would be its primary aim. GNH would be the measure of the country's progress, quantified by a complicated index based on "areas of psychological well being, cultural diversity and resilience, education, health, time use, good governance, community vitality, ecological diversity and resilience and economic living standards"—an array of factors that might all together quantify well-being and happiness. Sperling said, economists and policy makers too often set their sights on certain goals—high GDP and low unemployment—that can disregard how Americans actually feel. To re-center economics in people's lived experiences, Sperling proposed the adoption of a different goal: dignity. Economic dignity would mean being able "to care for your family and enjoy the most meaningful moments of family life, without economic deprivation taking away those most meaningful moments," Sperling said.

By Sperling's criteria, he said, America is failing on all three fronts. Even as the unemployment rate in the United States is hovering near a 50-year low, the country has no universal paid-family-leave requirement to ensure that new parents have time to spend with their infant children or to heal after birth. No law grants employees bereavement leave with which to mourn loved ones and begin to piece their lives back together in their absence. The federal minimum wage falls beneath the poverty line for families of two or more. Officially, about 13 million Americans—and likely more unofficially—have to work multiple jobs to make ends meet. The U.S. also fails to provide adequate support for people who have lost their jobs, Sperling said, and adequate resources with which to find new ones. Students are taking on crippling debt to go to college. In 2017, 12.3 percent of Americans were living in poverty.

Together, Sperling observed, that adds up to millions of Americans living without what he defines as economic dignity: unable to provide a basic quality of life for themselves and the people they love, enduring unfulfilling or downright exploitative work conditions out of a desperate need for money. And with the nation's economic mobility in sharp decline over the past few decades, many workers and their families could remain mired in that state for generations. But Americans can fight for greater economic dignity, Sperling said, arguing that many already are: By unionizing; pushing for a higher minimum wage;

lobbying for better leave, child-care, and health-care policies; and demanding action against workplace sexual misconduct, they're working to claim more of what he put forward as the base necessities for all working people. Policies to promote dignity could take a number of different forms, he said. "But that's the right way to look at it," Sperling said: as an array of options. "Don't make the means the end," he emphasized. "**Happiness is the end goal**. So try asking why people are unhappy"—and work from there.

84. What is author's view regarding minimum wage policy as a measure of economic stability of country?
- (a) None of the given statements is correct
 - (b) American citizens have achieved a higher economic stability
 - (c) GNP, as used in Bhutan has been an inefficient and inaccurate way to assess economic stability
 - (d) With minimum wages policy, Americans enjoy higher access of civil rights
 - (e) The benefits achieved under GNP regimes are higher than those where governments have introduced minimum wage policy
85. What can be the possible inference drawn from the statement "**Happiness is the end goal**", as highlighted in the above passage?
- (a) ensuring universal basic income will promote happiness within countries, which is the primary goal of every country
 - (b) dignity should not be framed as a metric to fulfill happiness
 - (c) author has considered happiness as the highest priority and countries must find means to achieve it for overall development
 - (d) the GDP a country must be given due attention to achieve the overall happiness of the citizens
 - (e) none is correct
86. What have been the measures suggested by Sperling to achieve economic dignity?
- (a) giving due attention to health and child care facilities within a country
 - (b) assurance of provision of basic necessities
 - (c) higher amount of minimum wages must be ascertained
 - (d) both (a) and (b)
 - (e) all of the above
87. The author is in line with
- (a) Economists believe that GDP and higher per capita income is necessary for economic growth
 - (b) Gross National Happiness and quality of life are necessary aims for any economy
 - (c) Although GNH is premised on the idea of overall psychological well-being, the significance of governance is undermined
 - (d) The developed nations have been successfully providing support for the unemployed but are still lagging in GNH
 - (e) All are correct

Directions (88-91): Read the following passage and answer the following questions based on the given passage.

Conversations about the role of flexible working have shifted. It's no longer enough for companies to offer employees the option to either work from home or the office. Employees want to work from anywhere. Companies that want to attract and retain top talent, and ensure teams are highly productive, need to adapt their culture and technology to accommodate this shift in attitudes. And this is where the IT department can solidify its role as a valued contributor to the success of a company, by implementing technologies that enable secure and remote collaboration.

According to a recently commissioned Polycom survey, 24,000 respondents across 12 countries indicate that nearly two-thirds of today's global workforce take advantage of the anywhere working model. This is a significant shift since May of 2012 when only 14% of employees benefited from remote working.

The survey results also provide insights into some of the concerns among companies in moving forward with the anywhere working model. Two significant concerns are a lack of trust and the perception that employees are not working as hard when they are not in the office. Also, among the 45-60-year-old age group, 59% worry that working anywhere will cause them to work longer hours. The fear of being always connected to work and overworking is a significant deterrent for this age group.

A good first step for companies to overcome the trust and perception concern is to ensure workers are measured by output and not by the hours they have worked, commonly referred to as '**presenteeism**.'

Countries like Brazil _____ here with 80% of employees adopting the anywhere working model, and 64% respondents use video to communicate several times a day. When respondents were asked how their companies could improve trust and perceptions with the anywhere working model, the most popular recommendations were to: Equip workers with technology that is easy to use and which connects them to their colleagues; Ensure the same policies are applied to everyone in the business, regardless of seniority or their situation; and Provide guidelines on how to manage working from anywhere.

91% of those surveyed agreed that technology is a key factor in improving relationships and fostering better teamwork. This suggests that investing in the right technologies, in particular video **collaboration**, to get the most out of individuals and teams can help solve the lack of trust and perception concerns. And this is where the IT department can become a difference maker as they can enact technologies, such as video conferencing, to ensure colleagues can seamlessly collaborate wherever they are.

88. Which of the following can be considered true in context of the information available in the given passage?
- most of the employers feel that the employees do not provide optimum output when working away from their office locations
 - emphasis has been laid on the growing preference for remote working
 - provision of user friendly technological ways of communication helps employers build better relations with employees preferring anywhere working model
 - the It department of any country has a large role to play when it comes to efficient functioning of changing models of working preference
 - all are correct
89. Which of the following statement can be inferred by author's view of not giving too much importance to "**presenteeism**"?
- Highly paid jobs can be highly pressurised too, demanding unhealthy amounts of overtime.
 - Business should be using output numbers to set an average instead of calculating the time spent working by each employee
 - When it comes to work, we should value the returns instead of time apportioned by employees towards their workplace.
 - Both (b) and (c)
 - none of these
90. Which of the following phrases could fit in the given blank, to make the statement contextually and grammatically meaningful?
- are all and sundry
 - have a cup of Joe
 - go back to the drawing board
 - lead the pack
 - all are correct
91. Which of the following is opposite to **COLLABORATION**, as highlighted in the given passage?
- unraveled
 - cognizant
 - confrontation
 - denunciation
 - none of these
92. In the given question, three statements have been given which are then divided in four parts. Following the statements are options which mention the part of statements which contains grammatical error. Mark the option mentioning the incorrect part of the statement(s).
- [I]** The most striking thing on the JMI wall is (A)/ the national flag, hundreds of which are (B)/ strung together in such a way that the (C)/ tricolour runs parallel with the road. (D)

- [II]** It is disturbing that assassination (A)/ is no longer universally (B)/condemned by all, as it was (C)/until the last decade or two. (D)
- [III]** While, Gurdwara Bangla Sahib (A)/ is known by all, there are (B)/ other Sikh shrines too that (C)/ tell interesting and inspiring stories. (D)
- III-A
 - I-C; II-C
 - II-C; III-B
 - I-C; II-B; III-C
 - II-D; III-D

Directions (93-95): In the following questions two columns are given containing three sentences/phrases each. In first column, sentences/phrases are A, B and C and in the second column the sentences/phrases are D, E and F. A sentence/phrase from the first column may or may not connect with another sentence/phrase from the second column to make a grammatically and contextually correct sentence. Each question has five options, four of which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. If none of the options given forms a correct sentence after combination, mark (e), i.e. "None of these" as your answer.

93. COLUMN I

- If organizations or states do not learn from one another,
- Wide collaboration means including everyone
- The more we talk about the importance of cybersecurity

COLUMN II

- generations of cybersecurity professionals we very much need
 - the same attacks will needlessly take down countless entities
 - repositories that are part of our operational systems
- C-D & B-F
 - A-E
 - B-D
 - C-F & A-E
 - None of these

94. COLUMN I

- Only one museum currently has the funding to contend for
- Speculators, thieves, and promoters long ago created
- Ethical appeals notwithstanding, great

COLUMN II

- transfer will disseminate once static fortunes
 - art will increasingly devolve into big business
 - and fed a market where cultural icons could be traded like commodities
- B-F & C-D
 - C-E & A-F
 - B-E & A-D
 - C-E & B-F
 - None of these

95. COLUMN I

- A lack of meaningful GDPR enforcement by
- Neither companies nor CMPs seem keen on
- The results of our empirical survey

COLUMN II

- (D) shoring up that pathetic 12 percent compliance rate
(E) regulators had already been fairly well established
(F) stop data collection, or misled the end user
(a) A-E & B-D (b) A-E & B-F (c) C-F & A-D
(d) B-E & C-D (e) None of these

Direction (96-100): Given below are few sentences where parts of the sentence have been jumbled. Rearrange the parts sentences in the proper sequence to form a meaningful statement and then answer the questions given below.

- [I]** Confessions of a Shopaholic sold three (A) / million copies and was even (B) / turned into a Hollywood blockbuster (C)/ published in 2000, the novel (D)
- [II]** in production and disposal of unsold stock(A)/ and their just-in-time manufacturing at the expense (B)/ take fast fashion – the wear-it-once culture of high-street brands (C)/of low labour costs leads to untold waste (D)
- [III]** about the impact of their choices (A)/ on the environment and on societies (B)/ even the most extravagant consumers (C)/ have become more discerning (D)
- [IV]** only two decades later, the obsession (A)/ core of the story, feels terribly outdated (B)/ luxury items, which was at the (C)/ with treating oneself by buying (D)
- [V]** perhaps it is because (A)/ today's youth has grown (B)/ up with an abundance (C)/ of (often cheap) products (D)
- 96.** What will be the correct sequence of rearrangement of parts of the statement [I]?
- (a) ACBD (b) CADB (c) DABC
(d) BACD (e) No rearrangement is possible
- 97.** What will be the correct sequence of rearrangement of parts of the statement [II]?
- (a) BCDA (b) CBDA (c) ACBD
(d) DCAB (e) No rearrangement is possible
- 98.** When the statements given above are rearranged, which of the following statement will not be coherent with the theme of the passage?
- (a) III (b) V (c) II
(d) I (e) All are coherent
- 99.** What will be the correct sequence of rearrangement of parts of the statement [III]?
- (a) DABC (b) BDCA (c) CDAB
(d) ABCD (e) No rearrangement is possible
- 100.** What will be the correct sequence of rearrangement of parts of the statement [IV]?
- (a) ADCB (b) BACD (c) CDBA
(d) DABC (e) No rearrangement is possible

Directions (101-106): In the sentences given below, four words have been highlighted and placed in a sentence. Identify the correct sequence of the words in the sentence. Also, one of the given words will need to be replaced. Identify the correct sequence and the correct replacement and mark that option as your answer.

- 101.** Governments and (A) **contagion** institutions can set targets and (B) **multilateral** for other parties to change their (C) **sustainably** and use their resources both efficiently and (D) **behaviour**.
- (a) BDAC; C- sufficiently
(b) DCBA; D- hyphenated
(c) BACD; A- mandate
(d) CADB; A- tenets
(e) No interchange required
- 102.** Specifically, (A) **harshest** in technology enable solar panels to work even in the (B) **generate** conditions, such as in (C) **innovations** hot climes, and can even (D) **eternity** power in damp weather.
- (a) DABC; A- harangued
(b) BCDA; all words are correct
(c) CBDA; B- genre
(d) CADB; D- extremely
(e) No interchange required
- 103.** The "Clean Up Mekong" (A) **realistic** in Viet Nam is an example of how cross-sector (B) **collaboration** helps provide (C) **solutions** and actionable (D) **champagne** to climate change.
- (a) BADC; A- virtual
(b) CDBA; B- condolence
(c) DBAC; D- campaign
(d) DCBA; B- corroboration
(e) No interchange required
- 104.** When (A) **engaged** lead, and when their entire workforces are (B) **mindset**, the public's (C) **livid**, behaviour and (D) **companies** can also change.
- (a) CADB; B- miniscule
(b) BADC; C- livelihood
(c) DABC; C- lifestyles
(d) CDAB; D- cognates
(e) No interchange required
- 105.** Partnerships between governments, the private sector, (A) **civil** institutions and (B) **essential** society will be (C) **targets** to ensure we meet the UN Sustainable Development Goals (D) **multilateral**.
- (a) BDCA; C- torment
(b) DCAB; B- efficacy
(c) CDAB; A- civilian
(d) DABC; all words are correct
(e) No interchange required

106. Companies can provide (A) **technologies** to make solutions more (B) **accessible** and affordable to all - especially MNCs (C) **operating** across multiple business sectors and (D) **industries**.

- (a) BDAC; C- occupational
- (b) DCBA; D- industrious
- (c) BACD; A- technocracy
- (d) CADB; A- compelling
- (e) No interchange required

Directions (107-108): Read the following passage and answer the following questions based on the given passage.

Mr. A. Rangaswami Iyengar B.A. B.L., Editor, "Swadesa Mitran" writes: — The unique sequence of events which have been crowded into the past fortnight in the history of India can hardly be ignored by any thinking Indian and it may be useful to take just a ___(I)___ with a view to indicate the immediate work that looms before Indian Nationalists. That the Indian National Congress Session of the year forms one of the greatest landmarks in the political history of the country can admit of no doubt. Although the moderates have re-christened their insignificant gathering by the ___(II)___ name of the National Liberal Federation, it is evident that under the guidance of the new-born, though lukewarm, political enthusiasm of Sir. P.S. Sivaswami Iyer and the out of date political oratory of Babu Surendra Nath Banerjea, it is hardly likely to carry the country along the path of national progress with anything like the fire of the genuine national movement that animates the whole country.

107. Which of the phrases could fit in the blank (I), to make the statement grammatically correct and contextually meaningful?

- (a) roughly form the entities of modern-day
- (b) merely on territorial extent of its sovereignty
- (c) cursory survey of them
- (d) religious intermingling to new level of exploration
- (e) none of these

108. Which of the following words could fit in the blank (II) to make the statement grammatically correct and contextually meaningful? Also, the same word must fit in the statements given below.

- (A) I don't think anyone could read this behaviour in any other way than being _____ and patronising.
- (B) In their statements, they have become expert in using _____ phrases and key buzzwords to cover up ugly banalities.
- (a) subsume (b) ligature (c) mooted
 - (d) pompous (e) none of these

Directions (109-110): Read the following passage and answer the following questions based on the given passage.

The United States plans to put a space workshop into orbit in 1972, the Space Agency announced here [Houston] yesterday. The National Aeronautics and Space Administration (NASA) said the third stage of the giant Saturn 5 rocket used to send Apollo spaceships to the moon would be used to house the orbiting laboratory and observatory. The project will study man's physiological and psychological responses in the space environment and provide more detailed information on his capabilities for extended manned flight. The workshop is to be fitted out on the ground and will be launched into a 220 nautical mile circular earth orbit. It will be occupied by a crew of three astronauts who will follow in a smaller rocket about a day later. At first, the astronaut-scientists will spend about 26 days in the orbiting workshop, but later visits lasting up to 56 days are planned. The laboratory will be built into a **modified** S-IVB third stage of the Saturn 5 rocket. The S-IVB is used as the Saturn 1B's second stage.

109. Which of the following statements is not true in context of the information given in the passage?

- (a) The astronaut scientists will be spending fortnight in the workshop in the orbit.
- (b) Saturn 5 rocket had been used prior to its current requirement for housing laboratory and observatory
- (c) The plan proposed by NASA will conduct an in depth study of physiological and psychological reaction of humans within space environment.
- (d) both (a) and (b)
- (e) all are correct

110. Which of the following is similar to MODIFIED, as highlighted in the passage given above?

- (a) immutable (b) incertitude (c) voracious
- (d) overhaul (e) none of these

Directions (111-115): In the following questions, a sentence is given which is divided into few parts. The sentence may or may not be grammatically or contextually correct. To make the sentence correct, interchange the positions of the phrase and mark the correct interchange as your answer. If no interchange is required, mark (e) i.e., "no interchange required" as your correct answer.

111. The small savings scheme, (A)/ investment avenues in India (B)/ is arguably one of the most popular (C)/ which offers guaranteed returns along with tax benefit (D)

- (a) A-C (b) B-D (c) A-D
- (d) A-D, B-C (e) No interchange required

112. Such as stress in balance sheets, (A)/ deteriorating financial conditions of the group (B)/ the agencies did not alter ratings despite (C)/ lack of cash flows, inability to monetise assets (D)

- (a) A-C (b) B-D (c) A-D
- (d) A-D, B-C (e) No interchange required

113. have benefited from rate reductions (A)/ restaurants and under-construction properties (B)/ from the pre-GST era, only a few services such as (C)/though taxes on goods have come down(D)

- (a) A-C (b) B-D (c) A-D
(d) A-D, B-C (e) No interchange required

114. The railway is incurring losses (A)/ in the passenger segment as the fare is subsidized, (B)/ while it ends up cross-subsidizing (C)/ passengers by overcharging freight.(D)

- (a) A-C (b) B-D (c) A-D
(d) A-D, B-C (e) No interchange required

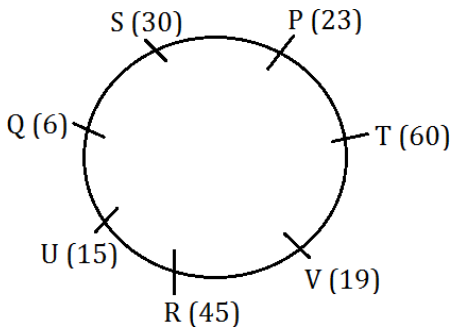
115. five-day schedule and breaks (A)/ for lunch and tea, might seem an anachronism (B)/ in this universe of instant (C)/ gratification, Test cricket with its (D)

- (a) (B)-(D)
(b) (A)- (B)
(c) (A)-(C); (B)-(D)
(d) (A)-(D); (B)-(C)
(e) None of these

IBPS PO Mains 2019 : (Solutions)

REASONING ABILITY

Solutions (1-5):



1. (d); 2. (a); 3. (d);
 4. (c); 5. (e);

Solutions (6-8):

Pages	Step I	Step II	Codes
90	18	72	24
120	24	96	32
270	54	216	72
300	60	240	80
330	66	264	88
315	105	210	30
231	77	154	22
567	189	378	54
399	133	266	38
525	175	350	50

Codes in ascending order- 22, 24, 30, 32, 38, 50, 54, 72, 80, 88

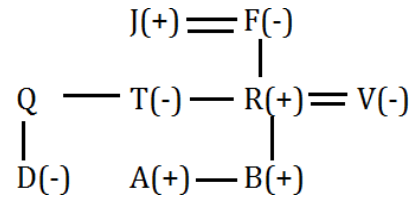
Books in store A-

Pages	Codes
231	22
90	24
315	30
120	32
399	38

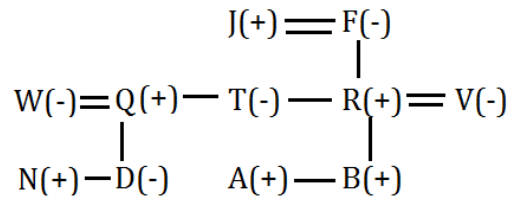
Books in store B-

Pages	Codes
525	50
567	54
270	72
300	80
330	88

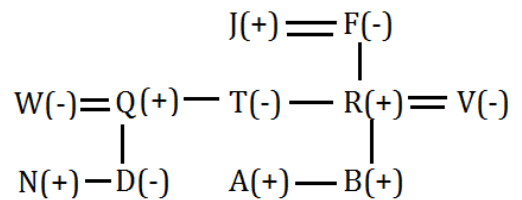
6. (c); 7. (e); 8. (b);
 9. (c); I: B#M (False) II: A%Y (False) III: Y@B (True)
 10. (b); I: S#L(False) II: J#U(True) III: G@N (False)
 11. (e);



12. (a);



13. (e);



14. (a);

Box	Color	Toffees
P		169
O	Black	
N	Red	
M	Pink	
L	Blue	104
K	White	
J		65
I	Green	52
H		
G	Yellow	
F		13
E		
D		

15. (b);

Box	Color	Toffees
		169
	Black	
	Red	
	Pink	
	Blue	104
	White	
J		65
	Green	52
	Yellow	
		13

16. (c);

Box	Color	Toffees
D		169
E	Black	
F	Red	
G	Pink	
H	Blue	104
I	White	
J		65
K	Green	52
L		
M	Yellow	
N		13
O		
P		

17. (d);

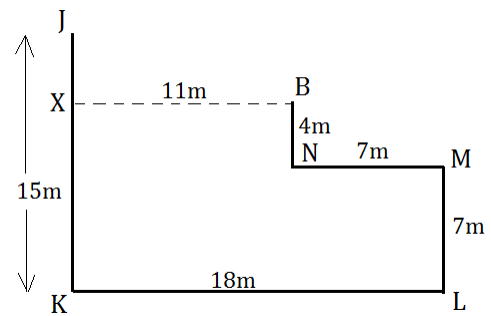
Box	Color	Toffees
		169
	Black	
	Red	
	Pink	
	Blue	104
	White	
J		65
	Green	52
	Yellow	
		13

18. (c); The exchange offer on furniture does not mean that there is no demand for furniture products. So, Assumption I is not implicit. The given advertisement is 'simplest' and 'cost effective', so Assumption II is also not implicit. Assumption III is implicit because some customers want to keep their home upto-date with reasonable cost and with less hassles and that is why that advertisement was given.

19. (b); From the statement, it is clear that there had been some serious incidents in that area, so the situation become tense and out of control. If people remain in their home, then they cannot go to their offices. So, Assumption I and II are implicit. It cannot be said that when it will be normal. So, Assumption III is not implicit.

20. (c); Argument I is not strong due to the word 'only'. There is some law which stop an individual to do wrong acts which he wants. So, Argument II is not strong. Argument III is strong because there is no confirmed evidence that such products have adverse effects on human body. What other countries are doing. We should not follow that blindly. So, Argument IV is not strong.

Solutions (21-23):

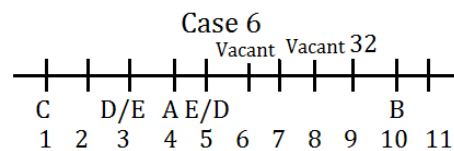
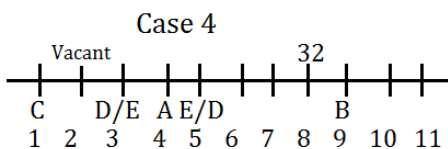
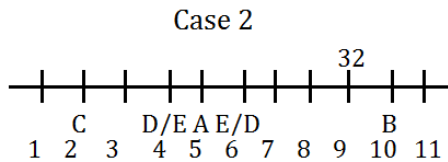
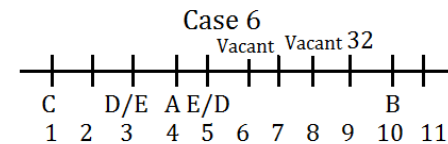
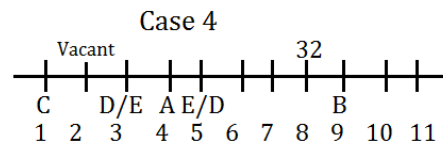
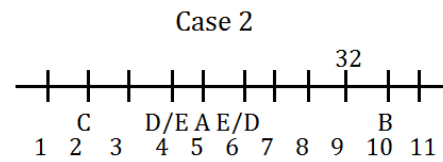
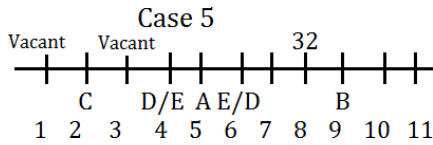
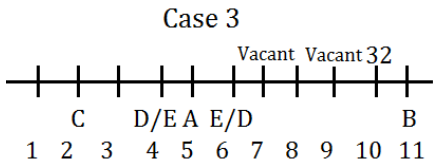
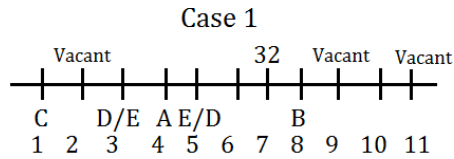


21. (b); 22. (b); 23. (d);

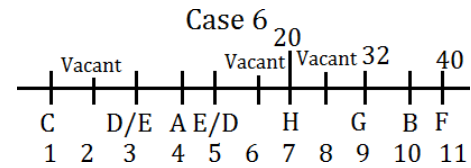
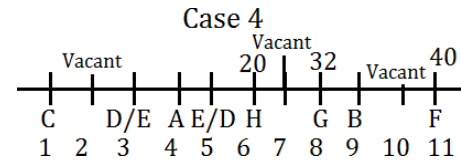
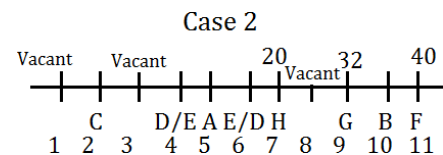
24. (d);

- I II III IV V
 1) B D J P S
 2) A C M Q X
 3) I N O T W

Solutions (25-29): Three persons sit between A and B. Person who is 32 years old sits immediate left of B. D and E are immediate neighbors of A whose seat number is less than 6. C sits 3rd to the left of A. No two vacant seats are placed adjacent to each other. Here, we get six possibilities i.e. Case 1, Case 2, Case 3, Case 4, Case 5 and Case 6.

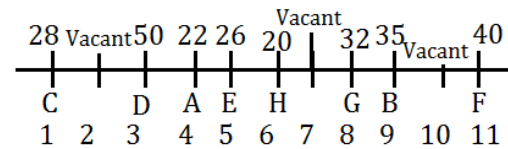


H sits immediate left of one of the vacant seats. One person sits between G and F who is 40 years old. Here, Case 1, Case 3 and Case 5 are ruled out. Age of H is half the age of the person who sits at seat number 11.



Sum of the age of D and G is 82. Do, D's age will be 50. B is as many years older than H as younger than D. So, B's age will be 35. Persons whose age are 26 and 28 years sit at odd numbered seats. Here, Case 2 is ruled out. D sits left of the person whose age is 22 years and right of the person whose age is 28 years. No vacant seat is between H and the person whose age is 22 years. Here, Case 6 is ruled out.

So, the final arrangement will be :-

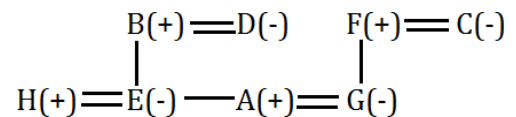


25. (b); 26. (c); 27. (c);

28. (e); 29. (d);

Solutions (30-34):

Designation	Person	City
GM	C	Hyderabad
AGM	F	Pune
CEO	D	Pune
Manager	A	Pune
Assistant Manager	H	Hyderabad
PO	B	Delhi
Clerk	E	Pune
Sub Staff	G	Delhi



30. (a); 31. (a); 32. (e);

33. (b); 34. (c);

35. (d); For I- This course of action should be taken as a measure to prevent the students from becoming victims of deadly online game as by introducing a separate chapter on "Responsible use of Internet," in school syllabus students may get to know about the proper use of internet.

For II- This is also a preventive course of action as by issuing warning against sharing of game will stop further spreading of this deadly game.

For III- This is also a preventive course of action as an awareness programme against playing such “dangerous” online games is an essential step that should be taken to prevent further spread of the game through sharing.

For IV- The conduction of the workshop by the state government in different schools to counsel students on the danger of playing games like Blue Whale will also be a preventive course of action as a measure to prevent the students from this deadly game.

36. (a); Inference is something which can be drawn from the facts stated in the statement.

For I- This statement can be inferred from the given statement because it is mentioned in the given statement that it is their first substantive meeting post the 73-day Doklam face-off. Prime Minister Narendra Modi and Chinese President Xi Jinping held "constructive" talks.

For II- This statement can also be inferred from the given statement as it describes that India and China today agreed on a "forward-looking" approach which is also mentioned in the given statement that both Modi and Xi agreed on maintaining peace and tranquillity in the border areas was a pre-requisite for the development of India-China relations.

For III- This statement cannot be inferred from the given statement as it is nowhere mentioned in the given statement that issue of counter terrorism is discussed in the meeting or not.

37. (c); For I- This statement cannot be hypothesized from the given statement as it is nowhere mentioned that the opposition has criticized Modi government over its promises, particularly on job growth.

For II- This statement can be hypothesized from the given statement as this reshuffles and expansions can be categorized as calculative or a strategic step as it is clearly mentioned in the given statement that 2019 Lok Sabha polls drawing near, the concern within the government was to ensure last-mile delivery of projects.

For III- This statement can be hypothesized from the given statement as the agenda behind this reshuffle will be coming 2019 Lok Sabha showdown which is also mentioned in the given statement that 2019 Lok Sabha polls drawing near, the concern within the government was to ensure last-mile delivery of projects.

Solutions (38-40):

Logic-

Step I- Only first and last letter of each word have been interchanged.

Step II- For words having even numbered letters- middle two letters are picked and add 1 in the number of letters.

For words having odd numbered letters- Both extreme letters are picked and subtracts 1 in in the number of letters.

Step III- Replace odd number by # and even number by @. Replace vowel by next letter and consonant by previous letter.

Step IV- Pick second letter from left from the letters having # and first letter from left from the letters having @.

Phrase	Step I	Step II	Step III	Step IV
recover	recover			
that	that	rr6 ha5	qq@ gb#	
device	eevicd	vi7 ei4	uj# fj@	bj# qf@
issue	essui			

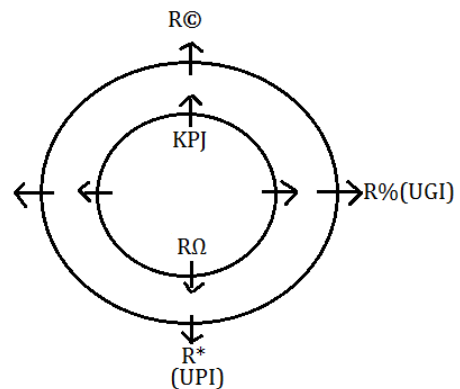
38. (d);

39. (b);

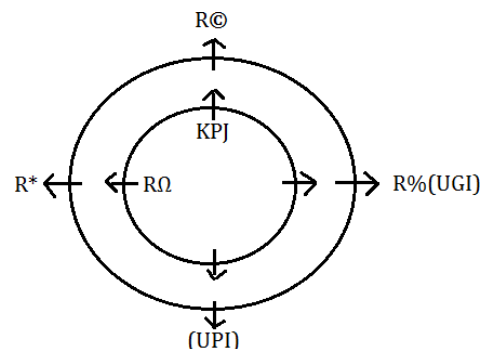
40. (c);

Solutions (41-45): From the given statements, R% who is graduated from UGI sits opposite to the one who sits at the immediate left of R⊙. RΩ sits just behind the R*. So, we have two possible cases i.e. case1 and case2. The one who is graduated from KPJ sits just behind the R⊙. The one who is graduated from KPJ sits just behind the one who sits second to the left of the one who is graduated from UPI.

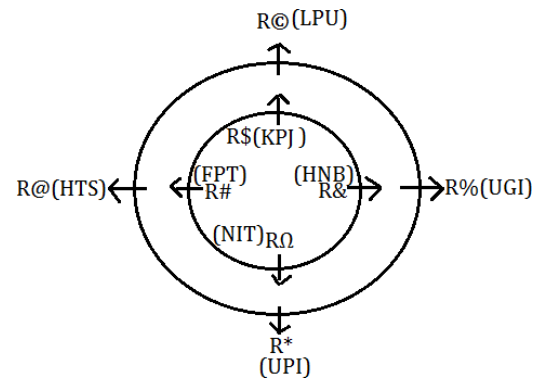
CASE 1



CASE 2



RΩ sits at the immediate right of R&. R& sits just behind the one who is graduated from UGI. So, case 2 gets eliminated here. The persons who are graduated from FPT and HNB are sitting on the same table and sit opposite to each other which means these persons are sitting on the inner table. R& is not graduated from FPT. The one who is graduated from HTS sits at the immediate left of the one who is graduated from LPU which means R@ is graduated from HTS, R@ is graduated from LPU and RΩ is graduated from NIT. R\$ is not graduated from FPT which means R\$ is graduated from KPJ and R# from FPT. So, the final arrangement is:



41. (a); 42. (e); 43. (b);
44. (d); 45. (c);

QUANTITATIVE APTITUDE

Solutions (46-50):

TOY A:

Battery available = 1200 units

Battery in operation = 11:00 - 9:00 = 2 hrs = 120 min

4NM + 3HR = 1 unit

4800 NM + 3600 HR = 1200 unit ... (i)

To find per minute NM & HR, divide (i) by the time for which battery remained in operation

40 NM/min + 30 HR/min = 10 unit/min

NM (A) = 40 per min

HR (A) = 30 per min

TOY B:

NM (B) = 30 per min

HR (B) = 20 per min

3NM + 2HR = 1 unit

Battery available = 1500 units

4500 NM + 3000 HR = 1500 unit

Since we know per min HR & NM, dividing total HR by HR/min we can find time for which battery remains operational

Battery in operation = 150 min = 2.5 hrs

TOY C:

NM (C) = 45 per min

HR (C) = 30 per min

Battery capacity = 2400 units

Battery available = 1440 units

3NM + 2HR = 1 unit

4320 NM + 2880 HR = 1440 unit

Since we know per min HR & NM, dividing total HR by HR/min we can find time for which battery remains operational

Battery in operation = 96 min = 1 hr 36 min

	Total Battery (units)	Available Battery (units)	NM (per min)	HR (per min)	Battery Operational Time (hrs)
A	1500	1200	40	30	2 (120 min)

B	2000	1500	30	20	2.5 (150 min)
C	2400	1440	45	30	1.6 (96 min)

46. (a); TOY A

4NM + 3HR = 1 unit

6000 NM + 4500 HR = 1500 units

For operational time, divide total NM by per min NM

Time = $\frac{6000}{40} = 150$ min

TOY B

3NM + 2HR = 1 unit

6000 NM + 4000 HR = 2000 units

For operational time, divide total NM by per min NM

Time = $\frac{6000}{30} = 200$ min

Required time difference = 200 - 150 = 50 min

47. (b); total NM = 45 × 96 = 4320

Total HR = 30 × 96 = 2880

Required difference = 4320 - 2880 = 1440

48. (b); 3NM + 2HR = 1 unit

3 × 0.1 + 2HR = 1

HR = 0.35 unit

49. (e); total NM/min = 40 + 30 + 45 = 115

Total HR/min = 30 + 20 + 30 = 80

Required % = $\frac{115-80}{80} \times 100 = 43.75\%$

50. (d); 3NM + 2HR = 1 unit

7200 NM + 4800 HR = 2400 unit

For operational time, divide total NM by per min NM

Time = $\frac{7200}{45} = 160$ min or 2hr 40 min

Required time = 9:00 + 2:40 = 11:40 AM

- 51. (a);** Increased sales amount of company X in 2012
 $= 24000 \times \frac{120}{100} = \text{Rs. } 28800$
 Increased sales amount of company Y in 2012
 $= 16000 \times \frac{125}{100} = \text{Rs. } 20000$
 Sales amount of company Z in 2012 = Rs. 12000
 Total sales amount of company X, Y and Z together in 2012 = $28800 + 20000 + 12000 = \text{Rs. } 60800$
 Total target sales amount of all the companies in 2012 = Rs. 60000
 Required difference = $60800 - 60000 = \text{Rs. } 800$
- 52. (d);** Sales amount of company Y in 2018
 $= \frac{15}{17} \times 34000 = 30000 \text{ Rs.}$

$$\text{Required Average} = \frac{14000 + 34000 + 30000}{3} = 26000 \text{ Rs.}$$
- 53. (b);** Sales amount of company X in 2018
 $= 16000 \times \frac{150}{100} = \text{Rs. } 24000$
 Sales amount of company Y in 2018
 $= 34000 \times \frac{120}{100} = \text{Rs. } 40800$
 Total target sales amount of all the companies together in 2018 = $75000 \times \frac{120}{100} = \text{Rs. } 90000$
 Sales amount of company Z in 2018 to meet the total target sales = $90000 - 24000 - 40800 = 25200 \text{ Rs.}$
 Sales amount of company Z in 2016 = 14000 Rs.
 Required % = $\frac{25200 - 14000}{14000} \times 100 = 80\%$
- 54. (c);** Required % = $\frac{14000}{75000} \times 100 = \frac{56}{3}\% = 18\frac{2}{3}\%$
- 55. (e);** Total sales amount of X in 2012, 2014 and 2016 together = $24000 + 20000 + 16000 = 60000 \text{ Rs.}$
 Total sales amount of Z in 2012, 2014 and 2016 together = $12000 + 26000 + 14000 = 52000 \text{ Rs.}$
 Required difference = $60000 - 52000 = 8000 \text{ Rs.}$
- 56. (b);** let total voters from village Z2 & Z4 is $3x^\circ$ & $7x^\circ$ respectively
 Total voters from village Z3 = $(252^\circ - 10x^\circ)$
 ATQ, $252^\circ - 10x^\circ > 3x^\circ$
 Check using options
 Only at 54° , above equations satisfies
 Z2 (registered voters) = 54°
 Z3 (registered voters) = 72°
 Z4 (registered voters) = 126°
- 57. (e);** ATQ, $54^\circ = 10800$
 Valid votes in Z2 = $\frac{98}{100} \times 10800 = 10584$
 Z4 = $126^\circ = 25200$
 Since valid votes in Z4 can either be 480 more or less than that of from Z2
 Valid votes from Z4 = $480 + 10584 = 11064$
 Valid votes from Z4 = $10584 - 480 = 10104$
 Invalid votes from Z4 = $25200 - 11064 = 14136$
 Or, $25200 - 10104 = 15096$

Total registered voters = $360^\circ = 72000$
 Total invalid votes = 20% of total registered votes = 14400
 Since invalid votes from Z4 should be less than total invalid votes
 So, valid votes Z4 = 11064
 Invalid votes from Z4 = 14136
 Required difference = $14136 - 11064 = 3072$

- 58. (d);** total voters from Z3 = 72°
 Central angle corresponding to valid votes of Z3 \leq central angle corresponding to total voters of Z3
 Only satisfying value = 60°
- 59. (b);** invalid voters from Z1 = 2200
 Invalid voters from Z2 = 1800
 Total registered voters from Z2
 $= \frac{100}{20} \times 1800 = 9000$
 $54^\circ = 9000$
 Required difference = $\frac{126}{54} \times 9000 - \frac{72}{54} \times 9000 = 21000 - 12000 = 9000$
- 60. (c);** let valid voters from Z1 be a
 Valid voters from Z4 are more than that of Z2
 So, valid voters from Z4 = $480 + 3600 = 4080$
 $a + 4080 = 10800$
 $a = 6720$
 valid voters from Z3 = $\frac{4}{3}(6720 - 3600) = 4160$

Solutions (61-65): Using data given, we get
 Orders continued (booked) = Orders Received - Orders Cancelled
 Orders delivered = Orders Booked - Orders not Delivered

Days	Orders Received	Orders Booked	Orders Cancelled	Orders Delivered	Orders Not Delivered
Monday	600	400	200	280	120
Tuesday	400	$400 - Y$	Y (let)	$320 - Y$	80
Wednesday	500	300	200	140	160
Thursday	600	360	240	60	300
Friday	X (let)	$X - 80$	80	$X - 280$	200
Saturday	400	$400 - Z$	Z (let)	$280 - Z$	120

- 61. (d);** required difference = $(300 + 360) - (280 + 140) = 240$
- 62. (b);** ATQ, $400 - Y = 50 + 400 - Z$
 $Z - Y = 50 \dots \dots \dots$ (i)
 $Y + Z = 30 + 80 + 120$
 $Y + Z = 230 \dots \dots \dots$ (ii)
 From (i) & (ii), $Z = 140, Y = 90$
 Required % = $\frac{90 - 80}{80} \times 100 = 12.5\%$
- 63. (a);** ATQ, $600 + X + 400 = 150 + 600 + 400 + 500$
 $X = 650$

$X - 280 > 280 - Z$
 $Z < 90$
 Required difference = $Z - 60$
 Since $Z < 90$ so required difference should be less than 30 ($90 - 60$)

64. (d); ATQ, $320 - Y = \frac{2}{3} \times 360$
 $Y = 80$
 $X - 280 + 280 - Z = 390$
 $X - Z = 390$ (i)
 So, $X > Z$
 $X - 80 > 280 - Z$
 $X > 360 - Z$ (ii)
 From (i) & (ii), $Z + 390 > 360 - Z$
 $Z < 15$ or $0 \leq Z \leq 14$
 So, $390 \leq X \leq 404$
 (a) $Y > 80$ not true
 (b) $Y - Z = 322$ or $Z - Y = 322$
 $Z = 402$ not true
 (c) $X - 280 > 500$ not true
 (d) $280 - (X - 280) = 160$
 $X = 400$ true
 (e) $80 > 200$ not true

65. (c); ATQ, $\frac{600+X}{600+X+280+140+280-Z} = \frac{65}{34}$
 $\frac{600+X}{700-Z} = \frac{65}{34}$ (i)
 $Y = \frac{90}{100} \times 200 = 180$
 $Z = 200 - Y = 20$
 Now putting value of Z in (i)
 $\frac{600+X}{680} = \frac{65}{34}$
 On solving, $X = 700$
 Total orders booked = $400 + 400 - Y + 300 + 360 + X - 80 + 400 - Z = 2280$

Solutions (66-70):

All applicants who submitted more than one application, their original submission is also rejected.

FOR POSITION A:

63 applications were declared duplicate since these 63 applicants submitted more than one application
 Total rejected applications = $63 + 63 \times 4 = 315$
 Following the same, we get

Position	Total Applications	Original (accepted) Applications	Rejected Applications
A	1040	725	315
B	880	$880 - 7p$	$7p$
C	600	$600 - 28(q + 1)$	$28(q + 1)$
D	s	$s - 48(r + 1)$	$48(r + 1)$
E	420	$420 - t(u + 1)$	$t(u + 1)$

Where, p = no. of duplicate applicants for B
 q = average no. of duplicate applications from duplicate applicants for C
 r = average no. of duplicate applications from duplicate applicants for D
 s = total no. of applications received for D
 t = no. of duplicate applicants for E
 u = average no. of duplicate applications from duplicate applicants for E

66. (d); let accepted & rejected application from males is $5x$ & $3x$ respectively
 Let accepted & rejected application from females is $5y$ & y respectively
 $5x + 5y = 725$ (i)
 $3x + y = 315$ (ii)
 Equating (i) & (ii)
 $x = 85$
 required no. of rejected applications from males = $3x = 255$

67. (c); ATQ, $420 - t(u + 1) = X + X + Y$ (i)
 $t(u + 1) = X + 2Y$ (ii)
 using (i) & (ii)
 $420 = 3(X + Y)$
 $X + Y = 140$ (iii)
A. X = 139
 This means, $Y = 1$
 Since no relation regarding value of Y is given so, this is possible.
 Given condition is true.
B. X = 141
 Using (iii), X at most can be 140
 This condition is not possible
C. X = 131
 This means, $Y = 9$
 Since no relation regarding value of Y is given so, this is possible.
 Given condition is true.

68. (a); ATQ, $725 + 880 - 7p = 659 \times 2$
 Solving, $p = 41$
 Required rejected applications = $7p = 287$

69. (e); ATQ, $\frac{s-48(r+1)}{48(r+1)} = \frac{4}{1}$
 $s = 240(r + 1)$ (i)
A. Given s = 240
 This is possible only when $r = 0$ but we know $r > 0$ (average no. of duplicate applications from duplicate applicants cannot be zero since there are applications which were declared duplicate)
 This condition is not true.
B. Given s - 48(r + 1) = 768

From (i), $240(r + 1) - 48(r + 1) = 768$

$192(r + 1) = 768 \Rightarrow r = 3$

this condition is true.

C. least no. of applications were received for D is a possibility. This is true only if $s < 420$ (since 420 applications were received for E)

$240(r + 1) < 420$

$r + 1 < 1.75 \Rightarrow r < 0.75$

this is not possible as we know r can only be non-zero integer

so, this condition is not true.

70. (b); let no. of accepted applications from males & females for C be x & y respectively

ATQ,

$150 < x < 200$

And, $130 < y < 180$

To find, q = ?

Applications accepted from all (males + females)

for C = $600 - 28(q + 1)$

$600 - 28(q + 1) = x + y$ (i)

Minimum possible value of 'x + y' = $151 + 131 = 282$

Maximum possible value of 'x + y' = $199 + 179 = 378$

So, $282 \leq x + y \leq 378$ (ii)

Using (i) & (ii)

$282 \leq 600 - 28(q + 1) \leq 378$

On solving above inequality,

$222 \leq 28(q + 1) \leq 318$

$\frac{97}{14} \leq q \leq \frac{145}{14}$

Satisfying values of q = 7, 9

Solutions (71-72):

Let there are x girls in class A

$\frac{50}{50+x} = \frac{5}{12}$

$x = 70$ (girls in class A)

let there are y & z boys in class B & C respectively

$\frac{y+z}{50+y+z} = \frac{14}{19}$
 $y + z = 140$ (i)

$\frac{y}{y+80} = \frac{z}{z+60}$

$yz + 60y = yz + 80z$

$y : z = 4 : 3$ (ii)

using (i) & (ii)

$y = 80, z = 60$

	A	B	C
Boys	50	80	60
Girls	70	80	60

71. (a); Boys in class C = 60

72. (d); total students in class B = $80 + 80 = 160$

Total student in class A = $50 + 70 = 120$

Required % = $\frac{160-120}{120} \times 100 = 33\frac{1}{3}\%$

73. (c); The given pattern is

$\times 1+1 \times 2+2 \times 3+3 \times 4+4 \times 5+5 \times 6+6$

So, wrong number = 3

The new series will be

$B = 3 \times 1 + 1 = 4$

$C = 4 \times 2 + 2 = 10$

$D = 10 \times 3 + 3 = 33$

Solutions (74-78):

Let one woman, one man and one children can complete w, m and c units of work in one day

From question

$xw \times 2y = 1.5mx \times y = 2xc \times 3y$

$2w = 1.5m = 6c$

Let $2w = 1.5m = 6c = k$

So,

$w : m : c = 3 : 4 : 1$ or $3a : 4a : a$ (let)

Total work = $\frac{45}{2} \times 8(1w + 1m + 1c)$

$= \frac{45}{2} \times 8 \times 8a = 1440$ a units

According to question

$9m \times (y + 20) = 1440a$

$9 \times 4a \times (y + 20) = 1440a$

$y = 20$

So, $x \times w \times 2y = 1440a$

$x \times 3a \times 2 \times 20 = 1440a$

$x = 12$

74. (c); $y = 20$

75. (e); work completed by 36 women in 4 days

$= 36 \times 3a \times 4 = 432$ a units

After 4 days

Remaining work = 1008 a units

Now in one day work completed by 6 women and

8 men = $32a + 18a = 50$ a units

Required time = $(\frac{1008a}{50a} + 4)$ days = $24\frac{4}{25}$ days

76. (a); Value of $x = 12$

77. (e); Required percentage = $\frac{a}{8a} \times 100 = 12.5\%$

78. (e); Total work completed

$= 6 \times 3a \times 14 + 6 \times 4a \times 10$

$= 252a + 240a = 492$ a units

Remaining work = 1440 a units - 492 a units

$= 948$ a units

Required time = $\frac{948a}{6a}$ days $\Rightarrow 158$ days

Solutions (79-80): Let total students in class A be 100x.

	Male	Female
Class A	70x	30x;
Class B	90x	90x

79. (c); Let male students got passed in class A be y.

Male students passed in class B = 3y.

ATQ,

$70x - y = 90x - 3y \Rightarrow 2y = 20x$

$$\frac{y}{x} = \frac{10}{1} \Rightarrow y = 10x$$

$$\begin{aligned} \text{Required \%} &= \frac{4y}{280x} \times 100 = \frac{4 \times 10x}{280x} \times 100 \\ &= \frac{100}{7} \% = 14\frac{2}{7}\% \end{aligned}$$

80. (a); Male students in class A = $\frac{90}{100} \times 70x = 63x$
 Female students in class A = $\frac{80}{100} \times 30x = 24x$

$$\text{Male students in class B} = \frac{125}{100} \times 90x = 112.5x$$

$$\text{Female students in class B} = \frac{130}{100} \times 90x = 117x$$

$$\begin{aligned} \text{Required \%} &= \frac{(63x+112.5x)}{(63x+24x+112.5x+117x)} \times 100 \\ &= \frac{175.5x}{316.5x} \times 100 \\ &= 55.45\% \text{ (approx.)} \end{aligned}$$

ENGLISH LANGUAGE

81. (c); If someone or something queers your pitch, they make it very difficult for you to achieve what you are trying to do. To gather the hint of the situation, refer to the second paragraph, which mentions, "Yet, with growth sagging, there is pressure on the central bank to cut rates at least one more time to stimulate growth. It would be interesting to watch the deliberations of the MPC in February." Referring to the quoted text, we can infer that the statement given in options (a) and (d) are correct in context of the given phrase. Hence, option (c) is the most suitable answer choice.
82. (c); To validate the answer, refer to the first paragraph of the passage given above, which mentions, "The disturbing December print has set off fears over whether India is entering a period of slow growth accompanied by high inflation, in other words, stagflation." Referring to the quoted text, we can clearly infer that the situation mentioned in the option (c) is an example of stagflation. Hence, option (c) is the most suitable answer choice.
83. (b); To validate the answer, refer to the second paragraph, which mentions, "The central bank stood pat on rates in the December policy precisely due to fears of inflation and had even revised upwards its inflation projection for the second half of the fiscal to 4.7-5.1%." Referring to the quoted text, we can infer that the statement given in option (b) is incorrect. Hence, option (b) is the most suitable answer choice.
 Stood Pat- To oppose or resist change
84. (a); As per the information given in the passage above, none of the mentioned statements are correct. Hence, option (a) is the most suitable answer choice.
85. (c); From the various parts of the passage given above, we can infer that the statement given in option (c) is suitable in context of the given question. Hence, option (c) is the most appropriate answer choice.
86. (e); To validate the answer, refer to the last paragraph of the passage given above, which mentions, "But Americans can fight for greater economic dignity, Sperling said, arguing that many already are: By unionizing; pushing for a higher minimum wage; lobbying for better leave, child-care, and health-care policies; and demanding action against workplace sexual misconduct, they're working to claim more of what he put forward as the base necessities for all working people." Referring to the quoted text, we can infer that all the given statements are correct in context of the given question. Hence, option (e) is the most suitable answer choice.
87. (b); As per the information given in the passage, we can infer that the statement given in option (b) is in line with the author's viewpoint. Hence, option (b) is the most suitable answer choice.
88. (e); As per the information available in the above passage, all the given statements are correct. Hence, option (e) is the most suitable answer choice.
89. (c); In the second passage, presenteeism has been defined as the 'number of hours one spends at workplace'. From the statement "", we can infer that author has given value to output instead of staying for longer duration at work. Hence, option (c) is the most suitable answer choice among the given statements.
90. (d); Among the given options 'lead the pack', which means "", is the most suitable phrase which could make the statement grammatically correct as well as contextually meaningful. Hence, option (d) is the most suitable answer choice.
 A cup of Joe is an American nickname for a cup of coffee.

All and sundry: Everything without distinction

91. (c); Among the given words, 'confrontation' which means 'a hostile or argumentative situation or meeting between opposing parties' is opposite of 'collaboration'. Hence, option (c) is the most suitable answer choice.
92. (c); Among the given statements, statement [I] is grammatically correct. In the other two statements, the errors are-
- [II] The error lies in the part (C), where 'condemned by all' will be replaced with 'condemned' because of the presence of 'universally'. Adding 'by all' after 'universally' will make the statement superfluous.
- [III] The error lies in part (B), where "known by" must be replaced with "known to". Hence, option (c) is the most suitable answer choice.
93. (b); Among the given phrases, only A-E can be successfully connected to make a contextually meaningful and grammatically correct statement. The statement thus formed will be: "If organizations or states do not learn from one another, the same attacks will needlessly take down countless entities."
94. (d); Here, the phrases given in (B) and (F) connect well to form a grammatically correct and contextually meaningful statement. Similar is the case with (C) and (E). The statements thus formed will be: "Speculators, thieves, and promoters long ago created and fed a market where cultural icons could be traded like commodities." "Ethical appeals notwithstanding, great art will increasingly devolve into big business."
95. (a); Here, the phrases given in (B) and (D) connect well to form a grammatically correct and contextually meaningful statement. Similar is the case with (A) and (E). The statements thus formed will be:
- (i) A lack of meaningful GDPR enforcement by regulators had already been fairly well established.
- (ii) Neither companies nor CMPs seem keen on shoring up that pathetic 12 percent compliance rate.
96. (c); The correct sequence of the phrases of the statement [I] to make the statement grammatically correct and contextually meaningful will be **DABC**. The statement thus formed will be:

"Published in 2000, the novel Confessions of a Shopaholic sold three million copies and was even turned into a Hollywood blockbuster."

97. (b); The correct sequence of the phrases of the statement [II] to make the statement grammatically correct and contextually meaningful will be **CBDA**. The statement thus formed will be: "Take fast fashion – the wear-it-once culture of high-street brands and their just-in-time manufacturing at the expense of low labour costs leads to untold waste in production and disposal of unsold stock."
98. (e); Although all the statements are in a jumbled sequence, they are all centered around the similar theme being 'conscious consumers'. Here the introductory statement will be [I], which is an independent statement and find its connection in statement [IV]. Further the next statements will be in sequence of [III], [II] and [V]. Hence, option (e) is the most suitable answer choice.
99. (c); The correct sequence of the phrases of the statement [III] to make the statement grammatically correct and contextually meaningful will be **CDAB**. The statement thus formed will be: "Even the most extravagant consumers have become more discerning about the impact of their choices on the environment and on societies."
100. (a); The correct sequence of the phrases of the statement [IV] to make the statement grammatically correct and contextually meaningful will be **ADCB**. The statement thus formed will be: "Only two decades later, the obsession with treating oneself by buying luxury items, which was at the core of the story, feels terribly outdated."
101. (c); For the highlighted words, the correct arrangement will be **BACD**. Also, "contagion" must be replaced with "mandate" to make the statement grammatically and contextually correct. Hence, option (c) is the most suitable answer choice.
102. (d); For the highlighted words, the correct arrangement will be **CADB**. Also, "eternity" must be replaced with "extremely" to make the statement grammatically and contextually

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

- 103. (c);** For the highlighted words, the correct arrangement will be **DBAC**. Also, “**champagne**” must be replaced with “**campaign**” to make the statement grammatically and contextually correct. Hence, option (c) is the most suitable answer choice.
- 104. (c);** For the highlighted words, the correct arrangement will be **DABC**. Also, “**livid**” must be replaced with “**lifestyles**” to make the statement grammatically and contextually correct. Hence, option (c) is the most suitable answer choice.
- 105. (d);** Among the given highlighted words, the correct rearrangement will be **DABC**, which will make the statement contextually meaningful and grammatically correct. Also, all the given words are correct and do not require improvement. Hence, option (d) is the most suitable answer choice.
- 106. (e);** Among the given highlighted words, all of them have been correctly placed and are correct in context of the given statement. Therefore, none of them needs to be replaced. Hence, option (e) is the most suitable answer choice.
- 107. (c);** Among the given phrases, the most suitable phrase to fill in the given blank will be “”. No other phrase could make the statement both grammatically correct and contextually meaningful. Hence, option (c) is the most suitable answer choice.
- 108. (d);** Among the given words, ‘**pompous**’ which means ‘affectedly grand, solemn, or self-important’ is the most suitable word to fill in all the three blanks. Hence, option (d) is the most suitable answer choice.
- 109. (a);** Refer to the statement “At first, the astronaut-scientists will spend about 26 days in the orbiting workshop, but later visits lasting up to 56 days are planned.” From the quoted text, we can infer that the statement given in option (a) is incorrect in context of the information given in the paragraph.
- 110. (d);** Among the given words, ‘**overhaul**’ which means ‘analyse and improve (a system)’ is synonymous

with ‘modified’. Hence, option (d) is the most suitable answer choice.

Immutable: unchanging over time or unable to be changed.

Incertitude: a state of uncertainty or hesitation.

Voracious: wanting or devouring great quantities of food.

- 111. (b);** The correct interchange to make the sentence grammatically and contextually correct is B-D. It is to be noted that part (B) mentions a reflexive pronoun “which” that is precisely used to illustrate the details of the subject “the small savings scheme” mentioned in part (A). Hence, the correct interchange would be B-D, thus, option (b) becomes the correct answer choice.
- 112. (a);** The correct interchange to make the sentence grammatically and contextually correct is A-C. The correct subject that a sentence would require is given in Part (C). Hence, by interchanging the positions of A-C, the sentence would be:
The agencies did not alter ratings despite deteriorating financial conditions of the group such as stress in balance sheets, lack of cash flows, inability to monetise assets. Thus, option (a) is the correct answer choice.
- 113. (d);** To make the sentence grammatically correct and contextually meaningful, we must interchange the phrases A-D and B-C. The meaningful sentence thus formed is Though taxes on goods have come down from the pre-GST era, only a few services such as restaurants and under-construction properties have benefited from rate reductions. Hence, option (d) is the correct answer choice.
- 114. (e);** All the phrases of the given sentence are in correct order and do not require any interchange. Thus, option (e) becomes the most viable answer choice.
- 115. (c);** Among the given phrases, (A)-(C) and (B)-(D) must be interchanged to make a grammatically correct and contextually meaningful statement. The correct statement thus formed will be:
“In this universe of instant gratification, Test cricket with its five-day schedule and breaks for lunch and tea, might seem an anachronism.”