Directions (1-10): Read the following passage carefully and answer the questions given below it.

President Donald Trump came to power partly on the promise that he will create more jobs and that other countries would not thrive at the expense of the U.S. In his dealings with the rest of the world, he has made it amply clear that if the U.S. buys more from another country than what that country buys from the U.S., America loses; something he does not want. That spirit has spurred his move to impose higher duties on imports to spur local manufacture and increase jobs in the U.S. The same spirit is also behind the move to pressure India to import at least $10 billion a year more from the U.S. over the next three years.

According to the U.S. Census Bureau, India imported $25.7 billion from the U.S. in 2017 while it exported $48.6 billion to the largest economy in the world. The U.S.’s latest demand means it wants India to cut its trade deficit with the American nation by close to half, through increased purchases of civilian aircraft and natural gas. Between 2014 and 2017, India’s trade deficit with the U.S. has hovered over $2324 billion annually. In 2017, it dropped by $1.5 billion compared with 2016, due to higher imports from the U.S. Till July this year, India’s deficit ran to $13.2 billion, not significantly different from the $13.6 billion for the same period a year earlier.

Juxtapose those figures against China’s trade deficit with the U.S. — it was $375.6 billion for 2017. Mr. Trump is targeting imports from China (which, in his opinion, are taking jobs away from Americans) and has imposed duties on $50 billion worth of Chinese exports to the U.S. China has reacted with similar duties on imports from the U.S. With duties impending on another $200 billion worth of trade, he has most recently said his administration has lined up action on the third lot of $267 billion worth of Chinese imports into the U.S. This has roiled markets globally as trade wars benefit none. In the U.S.’s own case, for example, duties on solar panels, being sourced from China, have led to the sector forecasting a slower growth and flagging a loss of 23,000 jobs — the exact opposite of what Mr. Trump wanted.

The tough stance of the U.S. is significant. Reports suggest that the administration has wrought a miracle of sorts. The U.S. economy has returned to life: the GDP is growing at a 3% plus rate; the unemployment rate is near a 50 year low; the stock market has jumped 27% amid a surge in corporate profits. Many critics, including some from his Republican Party, have said this is not sustainable and that government spending, which is driving a part of the revival, will peter out in 2019. Some predict that the U.S. could even see a recession in 2020.

If this happens, it could be disastrous for India — not only will India’s exports to the U.S. suffer, but it would have wasted precious dollar resources in signing up for imports under pressure. Even if the U.S. continued to grow, an increase in imports by India, merely to address the trade gap, would have a telling effect on the exchange rate. Indian government officials have estimated an extra $26 billion expenditure due to rising oil prices. Oil importers buy dollars to pay for their imports. That has contributed significantly to the falling rupee, which has lost as much as 14% this year, making it the worst performing currency in Asia. Spending an extra $10 billion a year on imports from the U.S. would mean further pressure on the rupee.

A falling rupee makes life difficult for other Indian importers. This would have a domino effect on the
rest of the economy. Rising prices could dampen consumer demand, resulting in poorer profit margins for the industry.

1) According to the passage, what made US president Trump to impose higher duties on import from other countries?
   i. To incentivize local manufacture
   ii. To increase job opportunity in US
   iii. To stop imports from other countries
   a) ii and iii
   b) Only i
   c) i and ii
   d) i and iii
   e) None of these

2) According to the passage which of the following is/are true about India-US business relation?
   i. India had higher export than import in 2017
   ii. India increased purchases of civilian aircraft and natural gas last year
   iii. India have faced a significant decrease in trade deficit post 2016
   a) i and ii
   b) Only i
   c) ii and iii
   d) i and iii
   e) All are true

3) What are the impacts of imposing higher duties on import, in the US economy?
   i. The GDP is growing at a 3% plus rate.
   ii. The Unemployment rate is near a 50 year high.
   iii. The stock market has hopped 27%.
   a) Only i
   b) ii and iii
   c) Only ii
   d) i and iii
   e) None of these

4) What will be the impacts of imposing higher duties on import by US, in Indian economy?
   i. It will have to waste more dollar by spending on more imports.
   ii. Forceful effects on Exchange rate.
   iii. Direct or indirect effects on consumer demand.
   a) All are true
   b) ii and iii
   c) i and iii
   d) Only ii
   e) None of these

5) Which of the following is not true about US China trade relation.
   a) US have imposed higher duties on Chinese goods.
   b) China and the US are heading into Trade war with higher duties on imports from both sides.
   c) Duties on imports from China resulted into mega job creation in US.
   d) China’s trade deficit with the U.S. was $375.6 billion for 2017.
   e) None of these

6) What are the possible outcomes of Trade war?
   i. It may dampen consumer demand, resulting in poorer profit margins for the industry in India.
   ii. The U.S. could even see a recession in 2020.
   iii. Slow growth of industry and loss of jobs in the US.
   a) ii and iii
   b) i and ii
   c) Only ii
d) i and iii

e) All are correct

7) Choose the word which is most nearly the same in meaning as the word “wrought” printed in bold as used in the passage.

a) Endure  
b) Fumble  
c) Bucolic  
d) Shaped  
e) Hushed

8) Choose the word which is most nearly the same in meaning as the word “peter out” printed in bold as used in the passage.

a) Affluence  
b) Plethora  
c) Dwindle  
d) Copious  
e) Bounteous

9) Choose the word which is most opposite in meaning of the word “Juxtapose” printed in bold as used in the passage.

a) Ensnare  
b) Confound  
c) Incriminate  
d) Encumber  
e) Isolate

10) Choose the word which is most opposite in meaning of the word “thrive” printed in bold as used in the passage.

a) Propound  
b) Decline  
c) Adduce  
d) Affirm  
e) Broach

Directions (11-15): Each sentence below has one or two blanks, each blank indicating that something has been omitted. Below the sentence are five sets of words. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

11) The model code of conduct came into force on Thursday in poll bound Telangana following an Election Commission ______ that henceforth the guidelines would be implemented immediately after early ______ of a Legislative Assembly.

a) Instruction, inauguration  
b) Directive, dissolution  
c) Concise, termination  
d) Discourteous, elicit  
e) Deliberate, prompted

12) Emerging economies were also hit by financial ______ but recovered more quickly, declaring themselves ______ from the problems of the advanced world.

a) Undulated, disconnect  
b) Tremors, attributed  
c) Jolts, associates  
d) Shockwaves, decoupled  
e) Pleated, broach

13) India has made rapid ______ in increasing access to sanitation in schools, the United Nations said in a report, ______ that the proportion of schools without any sanitation facility has decreased at a fast pace in the country.

a) Stagnant, mentioning  
b) Growth, omitting  
c) Progress, noting
d) Renounce, surmount

e) Indulge, surpassing

14) Nepal, ______ between China and India, is seeking to lessen its heavy ______ on New Delhi for trade and the supply of essential goods such as fuel, as it tries to improve connectivity with China.

a) Establish, inhabiting

b) Wedged, dependence

c) Jammed, weight

d) stuck, addiction

e) Fortify, settling

15) The policy intends to provide an ______ that processed agricultural and organic products will not be brought under the ______ of curbs such as minimum export prices, export duties or export bans,

a) Assurance, ambit

b) Pledge, menace

c) Contrived, domain

d) Guarantee, impend

e) Restraining, range

Direction (16-20): Five sentences denoted by A, B, C, D and E have been given. Identify the odd sentence and arrange rest of the four sentences in such a way that they make a meaningful paragraph.

16)

A) The river, more than 10 km wide in several stretches, now awaits the completion of its fourth and easternmost span — the country’s longest roadrail bridge at 4.94 km — that India’s defense forces and residents of the eastern half of the Northeast have been demanding for almost five decades.

B) “The Bogibeel bridge will usher in a new era of economic development in the region, apart from strengthening national security in the border areas,” as said by Assam Chief Minister Sarbananda Sonowal, following a recent visit to inspect progress on the construction of the bridge.

C) Constructed over a period of over 10 years, mahatma Gandhi Setu Bridge holds the distinction of being one of the longest bridges in the country, at 5,750 metres in length, it is in fact the second largest bridge in India next to Dhola Sadiya Bridge over the Brahmaputra in Assam being India’s longest bridge in 2017.

D) Sited about 17 km downstream of Dibrugarh town, the bridge will facilitate road and rail connectivity between the north and south banks of the Brahmaputra in the eastern part of Assam and Arunachal Pradesh. “A lot of emotion is attached to this bridge because it was part of the Assam Accord of 1985, but it is taking a long time,” said Lurinjyoti Gogoi, general secretary of the All Assam Students’ Union (AASU).

E) The Brahmaputra was till 1962 the only river in India that had not been bridged along its entire length either for road or railway, according to a 1988 book co-authored by former railwayman and IIT Madras teacher S. Ponnuswamy.

a) EABD

b) DEAC

c) ADEB

d) DBEC

e) CBED

17)

A) While many thought the UCC would coexist alongside the personal law systems, others thought that it was to replace the personal law.

B) Article 44 of the Directive Principles in the Constitution says the “State shall endeavor to provide for its citizens a Uniform Civil Code (UCC) throughout the territory of India.
C) The Paper suggests a series of amendments to personal laws and further codification of certain other laws, particularly with respect to succession and inheritance.

D) The Law Commission of India notes that the tracts of the Constituent Assembly debates reveal a lack of consensus on what a potential uniform civil code would entail.

E) The objective of this endeavor should be to address the discrimination against vulnerable groups and harmonise diverse cultural practices.

18) 
A) As per the latest report of the Central High Level Team, Nipah Virus Disease is not a major outbreak and only local occurrence limited to two districts in Kerala i.e. Kozhikode & Malappuram.

B) Public health officials had warned of the likelihood of outbreak of infectious diseases in the aftermath of the Kerala floods, and the State is battling a disease called leptospirosis, commonly known as ‘rat fever.’

C) Leptospirosis is a zoonotic or animal borne, disease, caused by the bacteria of the genus Leptospira which is largely found in animals, and occasionally surfaces in humans.

D) Much like dengue, it can manifest itself as no more than a mild flu and progress to a severe form that can cause kidney damage, liver failure, respiratory distress, meningitis, and even death.

E) Men — according to government guidelines — suffer more frequently from leptospirosis than women because of greater occupational exposure to infected animals and contaminated environment.

19) 
A) One of the key problems, cited by the government, is that being a riverine State, it has hundreds of bridges, and many were built years ago, including some dating back to colonial times.

B) Two days after a chunk of the Majerhat Bridge, a key connector between south and southwestern Kolkata, collapsed, killing three persons and leaving more than 20 injured, the West Bengal government made a startling revelation.

C) For the construction wing of the Northeast Frontier Railway (NFR) that is undertaking the project, it is better late than never given the unpredictability of the Brahmaputra and instability of its banks.

D) While the government did not name all the bridges that are operational and carrying traffic well beyond their expiry date, it specified three bridges at Sealdah, Ultandanga and Santragachi.

E) After a meeting with officials of different Departments, Chief Minister Mamata Banerjee said 20 bridges in the city and its suburbs had outlived their life span.

20)
A) The Presidents of Turkey, Iran and Russia, meeting in Tehran on Friday for a summit of key foreign players in Syria’s war, failed to agree on a ceasefire in Idlib.

B) Russia is especially exposed to Washington’s ire as a significant part of its governments' coffers are filled by revenues from its oil and gas sector.

C) Russia has described Idlib as a “nest of terrorists,” while the United Nations warned that an assault could lead to a humanitarian catastrophe.

D) Civilians in Syria's last major stronghold of opposition to Civilians in Syria's last President Bashar al-Assad’s rule are stocking up on food and digging shelters ahead of an expected army offensive.

E) “There are more babies in Idlib than there are terrorists, and I think that should give those engaging in military action pause for thought,” Karen Pierce, Britain’s Ambassador to the UN, told a Security Council meeting on Idlib.

Directions (21-30): There is a sentence given below which is divided into four or five parts. There is an error in any part(s) of the sentence. From the given options, find out the part which contain(s) error.

21) The verdict by the Supreme court, (A)/on Thursday, rescind Section 377 (B)/ for the Indian Penal Code which criminalised (C)/homosexuality has also given cheer (D)/to HIV positive patients, healthcare workers and rights activists (E)/.
   a) Only A and C
   b) Only B and C
   c) Only D
   d) Only B and E
   e) Only C and D

22) Men and women of high blood pressure (A)/ can have a reduced need for (B)/ antihypertensive medications in (C)/ 16 weeks after making lifestyle changes, says a study. (D)/ No error (E).
   a) Only B and D
   b) Only B and C
   c) Only D
   d) Only A and C
   e) Only C

23) Since the Indian government has start (A)/ exploring the need to establish a homegrown leasing option (B)/ for Indian airlines, a host of issues need to be sorted out (C)/ before it become a reality (D)/, aviation consulting and research firm Centre for Asia Pacific Aviation (CAPA) said (E).
   a) Only A and C
   b) Only A and D
   c) Only D
   d) Only A and B
   e) Only C and E

24) Smartphone maker Xiaomi on Thursday unveils seven (A)/ new products, including smart TVs among with (B)/ a wide range of ecosystem gadgets (C) / such as fitness band, security camera, air purifier and luggage. (D)/ No error (E)/.
   a) Only A and C
   b) Only B and C
   c) Only E
   d) Only A and D
   e) Only C and E
25) Walmart Foundation announced on (A)/ Thursday that it would investing ₹180 crore (B)/ in India over the next (C)/ five years to improve farmers’ livelihood. (D)/ No error (E).
   a) Only A and C
   b) Only B
   c) Only D
   d) Only A and D
   e) Only C and D

26) The activists’ opposition has forced (A)/ the State government to send back (B)/ private hunter Nawab Shafaat Ali Khan (C)/ from Hyderabad, who was roped up (D)/ by the Forest Department (E).
   a) Only A and C
   b) Only B and C
   c) Only D
   d) Only A and D
   e) Only C and E

27) Decades after the pronounce (A)/ use of chemical fertilizers and pesticides,(B)/ its negative impacts are reaching new heights (C)/ with heavy metal contamination now (D)/ report in banana fields of South India (E).
   a) Only A and C
   b) Only B and C
   c) Only D
   d) Only A and D
   e) Only C and D

28) No questions have been raise (A)/ about the capabilities of the Rafale jet, (B)/ and the corruption allegations have (C)/persists in the absence — unlike in the case (D)/ of some other defence deals such as Bofors — of a financial trail (E).
   a) Only A and D
   b) Only B and C

29) Universal health coverage is getting prioritise as a part of political reform (A)/ with the launch of two pillars of the PradhanMantri Jan Arogya Yojana (PMJAY): (B)/ Ayushman Bharat (AB), where 1.5 lakh health subcentres are being convert into health and wellness centres; (C)/ and the National Health Protection Mission (NHPM), which aims to provide health cover of Rs.5 lakh per family, (D)/ per annum, reaching out to 500 million people (E).
   a) Only A and C
   b) Only B and C
   c) Only B
   d) Only B and D
   e) Only C and E

30) The market’s impressive recovery from the day’s lows, (A)/ which was fuelled by strong institutional buying, (B)/ has offered some reason for optimism (C)/ to investors, who believes the fall was (D)/ simply a temporary correction in a bull market (E).
   a) Only A and C
   b) Only B and C
   c) Only D
   d) Only A and B
   e) Only C and D

Quantitative Aptitude

Directions (31-35): Find the wrong number in the following series.
31) 21, 39, 77, 145, 253, 412
   a) 39
   b) 77
   c) 145
   d) 412
   e) Only C and D

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Directions (36 – 40): Study the following information carefully and answer the questions given below:

In a school there are 6500 students. The school offers four hobby classes viz, Dance, Music, Art and Sports. Each student is allowed to attend only one hobby class. Respective ratio of boys and girls in the school is 7:6. 15% of the boys attend Art class. 12% of the girls attend Music class. 30% of total number of students attend Art class. Ratio of number of boys and number of girls in Music class is 8:9 respectively. 40% of the total number of boys attends Dance class and rest of the boys attends Sports class. 20% of the total number of girls attends Dance class and rest of the girls attends Sports class.

36) Find the total number of students who attend Dance class.
   a) 1800
   b) 2000
   c) 1400
   d) 600
   e) None of these

37) Find the respective ratio of number of boys who attend Music class and number of girls who attend Sports class.
   a) 64:123
   b) 45:133
   c) 123:64
   d) 133:45
   e) None of these

38) Number of boys who attend Sports class is what percent of the number of girls who attend Art class?
   a) 56.55%
   b) 88.07%
   c) 81.02%
   d) 66.67%
   e) None of these

39) Find the difference between the number of girls who attend Dance and Art class.
   a) 785
   b) 825
   c) 850
   d) 910
   e) None of these

40) Number of students in Dance class is what percent more than the number of students in Sports class?
   a) 6.95%
   b) 8.12%
   c) 7.78%
   d) 5.59%
   e) None of these

Directions (41 – 43): In each of the following question, read the given statements and compare the two given quantities on its basis.

41) Quantity I > Quantity II
42) Quantity I < Quantity II
43) Quantity I ≥ Quantity II
44) Quantity I ≤ Quantity II
45) Quantity I = Quantity II or relationship cannot be determined

32) 4, 5, 12, 39, 160, 806
a) 5
b) 12
c) 806
d) 39
e) 160
33) 11, 24, 44, 76, 124, 192
a) 24
b) 11
c) 44
d) 76
e) 124
34) 124, 62, 63, 124, 496, 3968
a) 63
b) 62
c) 124
d) 496
e) 3968
35) 4896, 4796, 4675, 4531, 4362, 4165
a) 4165
b) 4362
c) 4531
d) 4675
e) 4796
41) Quantity I: A circular wire having radius 14cm is bent in the form of a square. Find the side of the square.

Quantity II: Area of a rectangle is 252 cm$^2$ and length is 18 cm. Find the breadth of the rectangle.

42) Quantity I: A can complete a piece of work in 16 days. B can complete the work in 24 days. Efficiency of C is half of the efficiency of A and B together. Find the number of days taken by C to complete the work.

Quantity II: 24 men can complete a piece of work in 15 days. Find the number of days taken by 18 men to complete the piece of work.

43) Quantity I: A bag contains 5 red, 7 black and 6 white balls. If three balls are drawn at random, find the probability that all the balls are of same colour.

Quantity II: A bag contains 4 white, 3 blue and 5 red balls. If three balls are drawn at random, find the probability that all the balls are of different colours.

Directions (44-45): In each of the following questions, a question is followed by two statements I and II. Read all the statements to find the answer to given question and then answer accordingly that which statement/s can give the answer alone/together.

a) Only I
b) Only II
c) Either I or II
d) Both I and II together
e) Cannot be answered even after combining I and II

44) A sum of money Rs 3360 is to be divided among Vanitha, Ramya and Radha. What will be the share of Ramya?

Statement I: Vanitha’s share is 2.5 times Ramya’s share.

Statement II: Radha’s share is half the share of Vanitha and Ramya.

45) What is the ratio of speed of the boat in still water and speed of the stream?

Statement I: The boat takes 3 hours to travel 51 km downstream

Statement II: The ratio of downstream and upstream speeds is 6:5

Directions (46 – 50): What value should come at the place of question mark in the following number series?

46) 1234, 1237, 1249, 1276, 1324, ?
   a) 1412
   b) 1477
   c) 1399
   d) 1375
   e) 1363

47) 3456, 4786, 5785, 6513, 7024, ?
   a) 7946
   b) 7543
   c) 7846
   d) 7366
   e) None of these

48) 450, 4726, 44896, 381617, ?
   a) 2262124.5
   b) 2462126.4
   c) 3262106.5
   d) 2862126.5
   e) None of these

49) 675, 1900, 3925, 6950, 11175, ?
   a) 17460
   b) 16800
   c) 17325
   d) 16542
   e) None of these

50) 1980, 2070, 2162, 2256, ?
   a) 5402
   b) 3452
   c) 2352
   d) 4362
   e) None of these

51) Raju, Rohan, Sohan and Vinay entered into a partnership with investment in the ratio 7:6:5:8. After one year, Raju discontinued and Sohan doubled his investment. After one more year, Rohan and Vinay withdrew half of their investment amount. At the end of three years, they earned a profit of Rs.268000. Find the difference between the shares of Raju and Vinay in the profit.
   a) Rs.64000
   b) Rs.52000
c) Rs.48000

d) Rs.56000

e) None of these

52) Seema can complete 50% of a work in 10 days. Reeju can complete 25% of the work in 4 days and Sanju can complete the whole work in 12 days. If Seema and Reeju worked for 5 days and left, in how many days Sanju can complete the remaining work?
a) 23/4 days
b) 21/4 days
c) 19/6 days
d) 17/4 days
e) None of these

53) Three poles A, B and C are in a straight line such that B is equidistant from A and C. A boat can go from A to C downstream and returns to B upstream in 22 hours. If the speed of the boat in still water is 8 km/h and speed of the stream is 2 km/h, find the distance between A and C.
a) 80 km
b) 75 km
c) 60 km
d) 55 km
e) None of these

54) Bag P contains 4 white balls and bag Q contains 6 green balls. Some balls are transferred from bag Q to bag P. Probability of drawing 2 green balls from bag P is 3/14. Find the number of balls transferred to bag P.
a) 2
b) 4
c) 6
d) 3
e) None of these

55) A road of width 7m is running around a circular field from outside. The radius of the circular field is 28m. Find the cost of paving the road at the rate of Rs.16/m².
a) Rs.18564
b) Rs.22456
c) Rs.12986
d) Rs.22176
e) None of these

56) Difference between compound interest and simple interest on a certain sum at the rate of 12% per annum for 2 years is Rs.547.2. Find the compound interest on that sum at the rate of 8% per annum after 3 years.
a) Rs.6548.085
b) Rs.2345.049
c) Rs.9869.056
d) Rs.7658.086
e) None of these

57) There are four members in a family – father, mother, son and daughter. Average of the present ages of father and son is 34 years. Ratio of the ages of mother and son is 2:1 respectively. Daughter of the family is 11 years old and mother is 27 years older than the daughter. Find the present age of the father.
a) 44 years
b) 45 years
c) 49 years
d) 36 years
e) None of these

58) Neera bought two articles at same price and sold to Aman. He gained 25% on the first article and assumed loss of 10% on the second article. If Aman sold both the articles at 12% profit, then find the total selling price of both the articles for Aman.
a) Rs.221.8
b) Rs.240.8
c) Rs.214.2
d) Data inadequate
e) None of these

59) Population of a village is 5600. Ratio of males and females is 5:3 respectively. Out of the males, 24% are children and rests are adult. Out of the females, 26% are children and rests are adults. Find the adult population of the village.
a) 5626
b) 4216
c) 5624
d) 4214
e) None of these
60) A container contains 80 litres of milk. From this container 6 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?
   a) 58.17 litres  
b) 61.13 litres  
c) 63.31 litres  
d) 56.61 litres  
e) None of these

Directions (61–65): What value should come in place of question mark (?) in the following questions.

61) \[(56 \times 8) + 52 \times 5\] ÷ 12 = ? + 3²
   a) 60  
b) 70  
c) 50  
d) 80  
e) 40

62) \((\sqrt{121} - \sqrt{81}) \times (\sqrt{625} - \sqrt{361}) = \sqrt{?}\)
   a) 144  
b) 121  
c) 64  
d) 196  
e) 36

63) 12% of \((300 - 150) - \sqrt{289} + (16)^2 = ? \times 4 + (19 \times 3)\)
   a) 70  
b) 60  
c) 80  
d) 50  
e) 40

64) 16.25 \times 2.2 \times 5.5 \times 10^2 = ?
   a) 39400  
b) 38750  
c) 36245  
d) 32640  
e) 39325

65) 3\sqrt{5832} \times \sqrt{3844} = (? - 10.5) \times 2^3
   a) 210  
b) 190  
c) 180  
d) 120  
e) 150

Reasoning Ability

Directions (66-68): Read both the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

Give Answer:
   a) If Only conclusion I follows.  
b) If Only conclusion II follows.  
c) If Either conclusion I or II follows.  
d) If Neither conclusion I nor II follows.  
e) If Both conclusions I and II follow.

66) Statements: A<B≤D, E>D=K, K≥L
Conclusions:
I) D>L  
II) A>K

67) Statements: Z ≥ X, Y ≤ K ≤ X, Y > O
Conclusions:
I) Z > O  
II) Y < X

68) Statements: S≥T≤U, W>X, U<Y≥X
Conclusions:
I) S>X  
II) U≥Y

Directions (69-73): Study the following information carefully and answer the below questions.

Eight Persons: A, B, C, D, E, F, G, and H are sitting around a square table facing center. Four of them are sitting in four corners while four of them are sitting in the middle of the sides. Each of them likes different numbers. Those who sit in the corners like numbers that are multiples of 5. Those who sit in the middle of the table like numbers that are multiples of 6.

E sits second to the left of F. Only two persons sit between G and the one who likes 120. Only two persons sit between B and A. D likes 48. E sits second to the right of A. F is not an immediate neighbour of G. Difference between A and G is 20 less than the number which D likes. F likes the number that is greater than B but less than H. Only
three persons sit between C and the one who likes 72. F likes the number that is equal to the twice of the number which A likes. Only three persons sit between the one who likes 60 and B. E likes the number that is 10 more than the number which F likes. The one who likes 60 sits on the immediate right of the one who likes 120. A likes the number which is greater than the number which G likes. C sits second to the right of D.

69) How many persons sit between C and E (when counted from the left of E)?
a) No one  
b) Three  
c) Two  
d) One  
e) None of these  

70) What is the position of F with respect to the one who likes 120?  
a) Second to the left  
b) Third to the right  
c) Immediate left  
d) Fourth to the right  
e) None of these  

71) Which one of the following combination is correct?  
a) E-72  
b) C-120  
c) F-80  
d) A-35  
e) None of these  

72) Four of the following five are alike in a certain way and thus form a group as per the given arrangement. Which of the following does not belong to that group?  
a) E  
b) C  
c) F  
d) H  
e) A  

73) Which of the following number does G likes?  
78  
12  
24  
54  
None of these  

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

Seven boxes A, B, C, D, E, F, and G are kept one above the other containing different number of chocolates ranging from 10-50. The number of boxes kept below D is as the number of boxes kept above A. Not more than three boxes are kept above G. Only one box is kept between G and E. The number of chocolates in box C is a square number. The number of chocolates in Box F is a multiple of 11. Only three boxes kept between box containing 48 chocolates and 12 chocolates. The box E is kept below box G. Only three boxes are kept between E and the box containing 36 chocolates. The box D is kept immediately above the box containing 36 chocolates. Only one box is kept between A and F. The top box contains 29 chocolates. The box C is kept at one of the places above B. Difference between the chocolates of box A and box B is equal to the chocolates in box C. The box F contains the chocolates which is more than C but less than A. The number of chocolates in box E is 3 more than the number of chocolates in box B. One of the boxes contains 19 chocolates.

74) How many boxes are kept between D and A?  
a) Five  
b) Four  
c) Three  
d) Two  
e) None of these  

75) How many chocolates are there in the box F?  
a) 33  
b) 44  
c) 11  
d) 22  
e) None of these  

76) Which one of the following combinations is correct?  
a) B-19  
b) G-29  
c) D-12  
d) C-36  
e) None of these  

77) Which of the following number does G likes?  
78  
12  
24  
54  
None of these
77) What is the sum of the chocolates of box D and box G?
   a) 48
   b) 27
   c) 66
   d) 63
   e) None of these

78) How many boxes are kept between F and G?
   a) Two
   b) Three
   c) One
   d) Four
   e) None

Directions (79-81): Study the following information carefully and answer the below questions.
B is the brother of C. F is the father in law of H. D is the aunty of E. I is the brother in law of E. A is the grandmother of G. C married to H. B is the uncle of G. Both H and A have two children. H is the male. A is mother in law of D.

79) How is E related to C?
   a) Brother
   b) Daughter
   c) Son
   d) Either b or c
   e) None of these

80) How is D related to A?
   a) Sister
   b) Daughter
   c) Daughter in law
   d) Mother
   e) None of these

81) How many female persons in the family?
   a) Four
   b) Five
   c) Three
   d) Cannot be determine
   e) None of these

Directions (82-86): Study the following information carefully and answer the below questions.

<table>
<thead>
<tr>
<th>Digit/symbol</th>
<th>5</th>
<th>#</th>
<th>6</th>
<th>*</th>
<th>@</th>
<th>9</th>
<th>8</th>
<th>$</th>
<th>2</th>
<th>%</th>
<th>4</th>
<th>7</th>
<th>&amp;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>P</td>
<td>W</td>
<td>?</td>
<td>R</td>
<td>(</td>
<td>:</td>
<td>O</td>
<td>S</td>
<td>A</td>
<td>}</td>
<td>M</td>
<td>-</td>
<td>E</td>
</tr>
</tbody>
</table>

Rule 1: If the first element is symbol and the last element is even number both are to be coded as the code for last element
Rule 2: If the first element is even number and the last element is an odd number their codes are to be interchanged.
Rule 3: If both the first and last element is symbols both are to be coded as B.
Rule 4: If the third element is an odd number and the last element is symbol both are to be coded as the code for third element.

82) 9@574*
   a) :(P+WR
   b) :(P+MR
   c) :(P+MP
   d) :(P+?M
   e) None of these

83) @6&75#
   a) B?E+PB
   b) (?E+PW
   c) B?EP+B
   d) BE?P+B
   e) None of these

84) %48*26
   a) ?MORA}]
   b) ?MORA?
   c) }MORA}]
   d) ?MOAR?
   e) None of these

85) 2#86$9
   a) :WO?SA
   b) AWO?S:
86) 7#&6@8
a) +WE?O(
b) +WE(?O
c) +EW?(O
d) +WE?(O
e) None of these

87) How many books are placed between Biology and Maths?
a) One
b) Two
c) Three
d) No one
e) None of these

88) Four of the following five are alike in certain way and thus form a group as per the given arrangement. Which of the following does not belong to that group?
a) Thermal
b) Chemistry
c) History
d) Electrical
e) Maths

89) Which one of the following combinations is correct?
a) Physics-Tamil
b) Thermal-Comics
c) Biology-English
d) Electrical-Maths
e) None of these

90) What is the position of Economics book with respect to the one which is placed opposite to Maths?
a) Second to the left
b) Third to the left
c) Immediate left
d) Fourth to the right
e) None of these

91) How many books placed between English and Electrical book?
a) No one
b) Two
c) Three
d) Four
e) None of these

Directions (92-93): Study the following information carefully and answer the below questions.
Arun start the point A and walks toward East in 18m reached point B. Then he takes right turn and walks 17m reached the point S. Then Arun takes the left turn and walked 10m reached the point T. From point T he walks 10m towards south direction reached point W. Then he takes right turn and walks 28m reached the point C. Point C is 15m north of Point L.

92) How far is point L with respect to point A?
a) 27m
b) 24m
c) 42m
d) 38m
e) None of these

93) Point T is in which direction with respect to point C?
a) North
b) North-East
c) South-West
d) South
e) None of these

94) In certain code language ‘how many books’ is written as ‘as ga ws’ and ‘many more days’ is written as ‘ga rs yo’. How is ‘how’ written in that code language?
a) as
b) ga
c) Either a or b
d) Cannot be determine
e) None of these

95) S rank 16th from the top and 49th from the bottom then how many students are there in the class?
a) 65
b) 64
c) 63
d) 62
e) None of these
Directions (96-100): Study the following information carefully and answer the below questions.

Eight persons-A, B, C, D, E, F, G and H are born on the same month and same date on different years, 1970, 1998, 1960, 1964, 1986, 1982, 1993 and 1990, but not necessarily in the same order. Their ages were calculated in the same date and month with respect to 2018.

E’s age is multiple of 5. The difference between the age of A and D is ten more than that of G’s age. Only two persons were born between C and B. Neither B nor A is the eldest person. B was born before C. Only two persons were born between E and F. The sum of the ages of D and A is equal to the last two digit of the birth year of C. C was not the youngest person.

96) Who is the youngest and eldest person among the group?
   a) G, D
   b) E, D
   c) G, H
   d) E, H
   e) None of these

97) What is the sum of the ages of A and H?
   a) 86
   b) 76
   c) 74
   d) 56
   e) None of these

98) How many persons were born between F and D?
   a) One
   b) No one
   c) Three
   d) Two
   e) None of these

99) G is related to E in a certain way based on the given arrangement. In the same way A is related to C. Which of the following days is B related to following the same pattern?
   a) D
   b) H
   c) A
   d) F
   e) None of these

100) Who among the following person age is 32?
    a) A
    b) C
    c) E
    d) B
    e) None of these

Answers:

Directions (1-10):

1) Answer: C)
   It is mentioned in paragraph 1, Trump administration intends to impose higher duties on imports to spur local manufacture and increase jobs in the U.S.

2) Answer: D)
   India US business relation is mentioned in paragraph 2.

3) Answer: D)
   It is mentioned in the passage, the GDP is growing at a 3% plus rate; unemployment rate is near a 50-year low; the stock market has jumped 27% amid a surge in corporate profits.

4) Answer: A)
   It is clearly mentioned in the final (conclusion) paragraph.

5) Answer: C)
   It is clearly mentioned in the passage, Duties on imports from China resulted into job loss in the US.

6) Answer: E)
   It is clearly mentioned in passage. All the given statements are correct.

7) Answer: D)
   The meaning of “wrought” is “formed / created”.

8) Answer: C)
The meaning of “peter out” is “Dwindle or to diminish something gradually”.

9) Answer: E)
The meaning of “Juxtapose” is “adjoining”. So isolate will be a near antonym word.

10) Answer: B)
The meaning of “thrive” is “to prosper/ flourish”. So the antonym will be decline / decay.

Directions (11-15):

11) Answer: B)
The meaning of “Directive” is “Command / Instruction” and it is suitable for i blanks and the meaning of “dissolution” is “termination / suspension” so it is appropriate for ii blank.

12) Answer: D)
The meaning of “Shockwaves” is “Repercussions / effects” and it is suitable for i blanks and the meaning of “decoupled” is “separate or isolate” so it is appropriate for ii blank.

13) Answer: C)
The meaning of “Progress” is “Development” and it is suitable for i blanks and the meaning of “noting” is “noticing” so it is appropriate for ii blank.

14) Answer: B)
The meaning of “Wedged” is “to stuck in between two things” and it is suitable for i blanks and the meaning of “dependence” is “reliance / need” so it is appropriate for ii blank.

15) Answer: A)
The meaning of “Assurance” is “Promise” and it is suitable for i blanks and the meaning of “ambit” is “range/ realm” so it is appropriate for ii blank.

Directions (16-20):

16) Answer: A)
The correct sequence is EABD

E) The Brahmaputra was till 1962 the only river in India that had not been bridged along its entire length either for road or railway, according to a 1988 book coauthored by former railwayman and IIT Madras teacher S. Ponnuswamy.

A) The river, more than 10 km wide in several stretches, now awaits the completion of its fourth and easternmost span — the country’s longest roadrail bridge at 4.94 km — that India’s defence forces and residents of the eastern half of the Northeast have been demanding for almost five decades.

B) “The Bogibeel bridge will usher in a new era of economic development in the region, apart from strengthening national security in the border areas,” as said by Assam Chief Minister Sarbananda Sonowal, following a recent visit to inspect progress on the construction of the bridge.

D) Sited about 17 km downstream of Dibrugarh town, the bridge will facilitate road and rail connectivity between the north and south banks of the Brahmaputra in the eastern part of Assam and Arunachal Pradesh. “A lot of emotion is attached to this bridge because it was part of the Assam Accord of 1985, but it is taking a long time,” said Lurinjyoti Gogoi, general secretary of the All Assam Students’ Union (AASU).

Explanation: the passage is about the much awaited Bogibeel bridge. All the points highlight the various facts about Brahmaputra river and the bridge except (c).

17) Answer: D)
The correct sequence is BEDA

B) Article 44 of the Directive Principles in the Constitution says the “State shall endeavor to provide for its citizens a Uniform Civil Code (UCC) throughout the territory of India.

E) The objective of this endeavor should be to address the discrimination against vulnerable groups and harmonise diverse cultural practices.
D) The Law Commission of India notes that the tracts of the Constituent Assembly debates reveal a lack of consensus on what a potential uniform civil code would entail.

A) While many thought the UCC would coexist alongside the personal law systems, others thought that it was to replace the personal law.

Explanation: the passage talks about the uniform civil code, its objective and law commission’s suggestions on this. So (c) is out of the context.

18) Answer: E)

The correct sequence is BCED

B) Public health officials had warned of the likelihood of outbreak of infectious diseases in the aftermath of the Kerala floods, and the State is battling a disease called leptospirosis, commonly known as ‘rat fever.’

C) Leptospirosis is a zoonotic or animal borne, disease, caused by the bacteria of the genus Leptospira which is largely found in animals, and occasionally surfaces in humans.

E) Men — according to government guidelines — suffer more frequently from leptospirosis than women because of greater occupational exposure to infected animals and contaminated environment.

D) Much like dengue, it can manifest itself as no more than a mild flu and progress to a severe form that can cause kidney damage, liver failure, respiratory distress, meningitis, and even death.

Explanation: the passage is about the infectious diseases that Kerala is struggling with after the recent flood. Option (A) will be excluded because it has no relevance with post flood infectious diseases.

19) Answer: B)

The correct sequence is BEDA

B) Two days after a chunk of the Majerhat Bridge, a key connector between south and southwestern Kolkata, collapsed, killing three persons and leaving more than 20 injured, the West Bengal government made a startling revelation.

E) After a meeting with officials of different Departments, Chief Minister Mamata Banerjee said 20 bridges in the city and its suburbs had outlived their life span.

D) While the government did not name all the bridges that are operational and carrying traffic well beyond their expiry date, it specified three bridges at Sealdah, Ultandanga and Santragachi.

A) One of the key problems, cited by the government, is that being a riverine State, it has hundreds of bridges, and many were built years ago, including some dating back to colonial times.

Explanation: the passage is about the collapse of a bridge in the state of west Bengal. Further, it talks about government meeting on the issue and the possible reasons of the bridge collapse. So option (C) is out of this context.

20) Answer: B)

The correct sequence is DACE

D) Civilians in Syria’s last major stronghold of opposition to Civilians in Syria’s last President Bashar al-Assad’s rule are stocking up on food and digging shelters ahead of an expected army offensive.

A) The Presidents of Turkey, Iran and Russia, meeting in Tehran on Friday for a summit of key foreign players in Syria’s war, failed to agree on a ceasefire in Idlib.

C) Russia has described Idlib as a “nest of terrorists,” while the United Nations warned that an assault could lead to a humanitarian catastrophe.

E) “There are more babies in Idlib than there are terrorists, and I think that should give those engaging in military action pause for thought,” Karen Pierce, Britain’s Ambassador to the UN, told a Security Council meeting on Idlib.

Explanation: the passage is about the humanitarian issues of Syria. It explains Russia’s stand on this and
what UN thinks about this war zone. So point b is excluded as it talks about oil prices.

Directions (21-30):

21) Answer: B)
Error in part B: replace “rescind” with “rescinding”.
Error in part C: replace “for” with “of”.
22) Answer: D)
Error in part A: replace “of” with “with”.
Error in part C: replace “in” with “within”.
23) Answer: B)
Error in part A: replace “start” with “started” as the sentence is in present perfect. Third form of the verb will be used with has.
24) Answer: D)
Error in part A: replace “unveils” with “unveiled” as the sentence talks about a past event.
Error in part D: replace “among” with “along” as the correct conjunction is “along with” which means “in addition to”.
25) Answer: B)
Error in part B: replace “investing” with “invest” only.
26) Answer: D)
Error in part A: replace “activists’s” with activists’ because a plural noun with s takes only apostrophe sign (’) without s.
Error in part D: replace “up” with “in” as the correct phrase is “roped in”.
27) Answer: D)
Error in part A: replace “pronounce” with “pronounced”.
Error in part E: replace “report” with “reported” as past form of verb will be used.

28) Answer: A)
Error in part A: replace “raise” with “raised” as third form of verb will be used.
Error in part D: replace “persists” with “persisted” as third form of verb will be used.
29) Answer: A)
Error in part A: replace “prioritise” with “prioritised”.
Error in part C: replace “convert” with “converted”.
30) Answer: C)
Error in part D: replace “believes” with “believe” as the subject (investors) is plural.

Directions (31-35):

31) Answer: D)

32) Answer: C)
4*1+1 =5
5*2+2 =12
12*3+3 =39
39*4+4 =160
160*5+5 =805
33) Answer: B)

34) Answer: A)
124*0.5 = 62
62*1 = 62
62*2 = 124
124*4 = 496
496*8 =3968
35) Answer: A)
4896 – 100 = 4796
4796 – 121 = 4675
4675 – 144 = 4531
4531 – 169 = 4362
4362 – 196 = 4166

Directions (36-40):
Total students = 6500
Total Boys = 6500 * (7/13) = 3500
Total Girls = 6500 * (6/13) = 3000
Boys attend art class = 15/100 * 3500 = 525
Girls attend music class = 12/100 * 3000 = 360
Total students attend art class = 30/100 * 6500 = 1950
Total girls attend art class = 1950 – 525 = 1425
Boys attend dance class = 40/100 * 3500 = 1400
Boys attend sports class = 3500 – (525 + 320 + 1400) = 1255
Girls attend dance class = 20/100 * 3000 = 600
Girls attend sports class = 3000 – (360 + 1425 + 600) = 3000 – 2385 = 615

<table>
<thead>
<tr>
<th>Hobby Classes</th>
<th>Boys</th>
<th>Girls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance</td>
<td>1400</td>
<td>600</td>
</tr>
<tr>
<td>Music</td>
<td>320</td>
<td>360</td>
</tr>
<tr>
<td>Art</td>
<td>525</td>
<td>1425</td>
</tr>
<tr>
<td>Sports</td>
<td>1255</td>
<td>615</td>
</tr>
</tbody>
</table>

36) Answer: B)
Total number of students who attend Dance class = 1400 + 600 = 2000

37) Answer: A)
Required ratio = 320:615 = 64:123

38) Answer: b)
Required percentage = (1255/1425) x 100 = 88.07%

39) Answer: b)
Required difference = 1425 – 600 = 825

40) Answer: A)
Number of students in Dance class = 1400 + 600 = 2000
Number of students in Sports class = 1255 + 615 = 1870
Required percentage = (2000 – 1870)/1870 x 100 = (130/1870) x 100 = 6.95%

Directions (41-43):
41) Answer: A)
Quantity I:
Circumference of the circle = 2πr
= 2 x 22/7 x 14
= 88 cm
Side of the square = 88/4 = 22 cm
Quantity II:
Breath of the rectangle = 252/18 = 14 cm
Hence, Quantity I > Quantity II.

42) Answer: B)
Quantity I:
Number of days taken by A and B together to complete a piece of work
=(16 x 24)/(16 + 24)
=(16 x 24)/40
= 48/5 days
Number of taken by C to complete the work = (48/5)*2 = 96/5 days
Hence, Quantity I < Quantity II

43) Answer: B)
Quantity I:
Required probability = (5c3 + 7c3 + 6c3)/18c3
=(10 + 35 + 20)/816
=65/816
Quantity II:
Required probability
=(4c1 x 3c1 x 5c1)/12c3
=(4 x 3 x 5)/220
=3/11
Hence, Quantity I < Quantity II

Directions (44-45):
44) Answer: D)
From statement I, we have,
The ratio of share of Vanitha and Ramya is as follows:
Vanitha : Ramya
5 : 2
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Now, from statement I & II, we have, Vanitha : Ramya : Radha
 5 : 2 : 7/2
10 : 4 : 7
Thus share of Ramya = (4/21)*3360
   =Rs 640
Thus, Both Statements I and II are necessary to answer the question.

45) Answer: B)
Let the speed of the boat in still water and speed of the stream be x km/hr and y km/hr respectively.

Statement I:
According to the question,
\[ \frac{51}{x+y} = 3 \]
x+y=17 ................. (1)
Using this we cannot find the required speeds.

Statement II:
According to the question,
\[ \frac{(x+y)}{(x-y)} = \frac{6}{5} \]
5(x+y)=6(x-y)
x/y= 11/1
Thus Statement II is sufficient to answer the question.

Directions (46-50):

46) Answer: C)
1234 + (1*3) = 1237
1237 + (2*6) = 1249
1249 + (3*9) = 1276
1276 + (4*12) = 1324
1324 + (5*15) = 1399

47) Answer: D)
3456 + 11^3 – 1 = 4786
4786 + 10^3 – 1 = 5785
5785 + 9^3 – 1 = 6513
6513 + 8^3 – 1 = 7024
7024 + 7^3 – 1 = 7366

48) Answer: D)
450 x 10.5 + 1 = 4726
4726 x 9.5 – 1 = 44896
44896 x 8.5 + 1 = 381617
381617 x 7.5 – 1 = 2862126.5

49) Answer: B)
675 + 35^2 = 1900
1900 + 45^2 = 3925
3925 + 55^2 = 6950
6950 + 65^2 = 11175
11175 + 75^2 = 16800

50) Answer: C)
44 x 44 + 44 = 1980
45 x 45 + 45 = 2070
46 x 46 + 46 = 2162
47 x 47 + 47 = 2256
48 x 48 + 48 = 2352

51) Answer: B)
Let the investment amount of Raju, Rohan, Sohan and Vinay be Rs.7x, Rs.6x, Rs.5x and Rs.8x respectively.

Ratio of shares in the profit:
Raju: Rohan: Sohan: Vinay
=7x : (6x + 6x + 3x) :(5x + 10x + 10x) : (8x + 8x + 4x)
= 7x : 15x : 25x : 20x
= 7:15:25:20
Required difference = \[ \frac{(20 – 7)}{67} \] x 268000
   = (13/67) x 268000
   = Rs.52000

52) Answer: B)
Seema – 2 x 10 = 20 days
Reeju – 4 x 4 = 16 days
Sanju – 12 days
Let the required number of days = x
According to the question
\[ \frac{5}{20} + \frac{5}{16} + \frac{x}{12} = 1 \]
\[ \Rightarrow \frac{(20 + 25)/80 + x/12} = 1 \]
\[ \Rightarrow \frac{45}{80} + x/12 = 1 \]
\[ \Rightarrow x/12 = 1 – 9/16 \]
\[ \Rightarrow x/12 = (16 – 9)/16 \]
\[ \Rightarrow x/12 = 7/16 \]
\[ \Rightarrow x = 7/16 x 12 \]
\[ \Rightarrow x = 21/4 days \]

53) Answer: E)
Let the distance between A and C is 2d.
According to the question
\[ \frac{2d}{8 + 2} + \frac{d}{8 – 2} = 22 \]
\[ \Rightarrow 2d/10 + d/6 = 22 \]
\[ \Rightarrow d/5 + d/6 = 22 \]
=(6d + 5d)/30 = 22
= 11d/30 = 22
= d/30 = 2
= d = 60 km
The distance between A and C = 2d = 120 km

54) Answer: B)
Let the number of balls transferred = x
Now,
\[ \frac{x}{c_3} \left( \frac{4 + x}{3 + x} - 3/14 \right) = \frac{3}{14} \]
= \[ x(1 - 1)/(4 + x)(3 + x) = 3/14 \]
= \[ 14x^2 - 14x = 3x(12 + 4x + 3x + x^2) \]
= \[ 14x^2 - 14x = 36 + 21x + 3x^2 \]
= \[ 11x^2 - 35x - 36 = 0 \]
= \[ x = 4, -9/11 \] (rejected)
= \[ x = 4 \]

55) Answer: D)
Area of the circular field = \( \pi(R^2 - r^2) \)
= \[ 22/7 \times (28^2 - 7^2) \]
= \[ 22/7 \times 35 \times 21 \]
= 3850 – 2464
= 1386 m²
Cost of fencing = 16 x 1386 = Rs.22176

56) Answer: C)
Let the sum is Rs. P
We know that for two years
CI – SI = P \( x (1/100)^3 \)
= \[ 547.2 = P \times (12/100)^2 \]
= \[ P = 547.2 / 100 * 12 \times 100/12 \]
= \[ P = Rs.38000 \]
Required CI = \[ 38000 \times 108/100 \times 108/100 \times 108/100 \times 38000 \]
= 47869.056 – 38000
= Rs.9869.056

57) Answer: C)
Age of daughter = 11 years
Age of mother = 11 + 27 = 38 years
Now, Age of son = \( 1/2 \times 38 = 19 \) years
Then Age of son + Age of father = 2 x 34 = 68 years
Thus Age of Father = 68 – 19 = 49 years

58) Answer: D)
Let the cost prices of each of the articles for Neera = Rs.100x

SP of one article for Neera = 100x \( x (125/100) = Rs.125x = CP \) for Aman
SP of another article for Neera = 100x \( x (90/100) = Rs.90x = CP \) for Aman
SP of one article for Aman = 125x \( x (112/100) = Rs.140x \)
SP of another article for Aman = 90x \( x (112/100) = Rs.100.8x \)
Total selling price = 140x + 100.8x = Rs.240.8x
Here we can't find the value of x, so the data in adequate.

59) Answer: D)
Number of males = \( (5/8) \times 5600 = 3500 \)
Number of females = 5600 – 3500 = 2100
Number of adult males = \[ (100 - 24)/100 \times 3500 \]
= 2660
Number of adult females = \[ (100 - 26)/100 \times 2100 \]
= 1554
Required sum = 2660 + 1554 = 4214

60) Answer: C)
We know that,
Quantity left = Original quantity \( x (1 - x/original \) quantity)\(^n\)
Where, \( x = \) quantity replaced
\( n = \) number of time replaced
Quantity left = \[ 80 \times (1 - 6/80)^3 \]
= \[ Quantity \) left = \[ 80 \times (1 - 3/40)^3 \]
= \[ Quantity \) left = \[ 80 \times (37/40)^3 \]
= \[ Quantity \) left = 63.31 litres

Directions (61-65):

61) Answer: C)
\(? + 9 = (448 + 260) / 12\)
\(? + 9 = 59\)
\(? = 59 - 9 = 50\)

62) Answer: A)
\(? = (11 - 9) \times (25 - 19)\)
= \[ 2 \times 6 \]
\(? = 144\)

63) Answer: D)
\(? \times 4 + 57 = (12/100) \times 150 - 17 + 256\)
? × 4 + 57 = 18 – 17 + 256
? = (257 – 57) / 4 = 200/4 = 50

64) Answer: E)
? = 16.25 * 4.4 * 5.5 * 100
= 71.5 * 550
? = 39325

65) Answer: E)
(?) - 10.5) × 8 = 18 * 62
? – 10.5 = (18 * 62) / 8
? = 139.5 + 10.5 = 150

Directions (66-68):
66) Answer: D)
I) D>L (A<B=D=K≥L) --> False
II) A>K (A<B=D=K≥L) --> False

67) Answer: A)
I) Z > O (Z ≥ X ≥ K ≥ Y > O) --> True
II) Y < X (Z ≥ X ≥ K ≥ Y > O) --> False

68) Answer: D)
I) S>X (S≥T≤U<Y≥X<W) --> False
II) U≥Y (S≥T≤U<Y≥X<W) --> False

Directions (69-73):

Only two persons sit between G and the one who likes 120.
The one who is likes 60 sits on the immediate right of
the one who likes 120.
Only three persons sit between the one who likes 60 and B.
D likes 48. C sits second to the right of D.
Only three persons sit between C and the one who
likes 72.
Now we have 3 cases

F is not an immediate neighbour of G.
From the above condition Case 1(a) was dropped.
F likes the number that is equal to the twice of the
number which A likes.
A likes the number which is greater than the number
which G likes.
Difference between A and G is 20 less than the
number which D likes.
E likes the number that is 10 more than the number
which F likes.
F likes the number that is greater than B but less than H.
Those who sit in the corners like numbers that are multiples of 5.
Those who sit in the middle of the table like numbers that are multiples of 6.
From the above statement possibility of F likes the numbers is 75, 80, 85, 90, 95, 100, 105, 110 and 115.
Difference of A and G is 28.
F likes the number that is equal to the twice of the number which A likes.
From the statement F likes 80 and A likes 40 and D likes 12.
So the final arrangement is:

<table>
<thead>
<tr>
<th>Cases 1(a)</th>
<th>Cases 1(b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>A</td>
</tr>
<tr>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>F</td>
<td>D</td>
</tr>
<tr>
<td>E</td>
<td>H</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Places</th>
<th>Boxes</th>
<th>Chocolates</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>D</td>
<td>29</td>
</tr>
<tr>
<td>6</td>
<td>C</td>
<td>36</td>
</tr>
<tr>
<td>5</td>
<td>B</td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td>G</td>
<td>19</td>
</tr>
<tr>
<td>3</td>
<td>F</td>
<td>44</td>
</tr>
<tr>
<td>2</td>
<td>E</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>48</td>
</tr>
</tbody>
</table>

Not more than three boxes are kept above G.
Only one box is kept between G and E.
The box E is kept below box G.
Only three boxes are kept between E and the box containing 36 chocolates.
The top box contains 29 chocolates.
Now we have 2 Cases.

<table>
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<th>Chocolates</th>
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</thead>
<tbody>
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<td>G</td>
<td>29</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>36</td>
</tr>
<tr>
<td>5</td>
<td>A</td>
<td>29</td>
</tr>
<tr>
<td>4</td>
<td>F</td>
<td>36</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>48</td>
</tr>
</tbody>
</table>

The box D is kept immediately above the box containing 36 chocolates.
The number of boxes kept below D is as the number of boxes kept above A.
Only one box is kept between A and F.
The box C is kept at one of the places above B.

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<tr>
<th>Places</th>
<th>Boxes</th>
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<td>29</td>
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<td>6</td>
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</tr>
<tr>
<td>4</td>
<td>F</td>
<td>36</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>12</td>
</tr>
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<td>D</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>48</td>
</tr>
</tbody>
</table>

Difference between the chocolates of box A and box B is equal to the chocolates in box C.
The number of chocolates in box C is a square number.
Only three boxes are kept between box containing 48 chocolates and 12 chocolates.
The box F contains the chocolates which is more than C but less than A.
Hence Box A contains either 48 or 12.
From Case 1 Difference between A and B is either 12 or 24, but both are not a square number. So Case 1 was dropped.
The number of chocolates in Box F is a multiple of 11, hence Box F contains 44 chocolates.
From above statement Box A contains 48 chocolates.
The number of chocolates in box E is 3 more than the number of chocolates in box B. One of the boxes contains 19 chocolates.
One of the boxes contains 19 chocolates.
So the final arrangement is.

74) Answer: A)
75) Answer: B)
76) Answer: D)
77) Answer: A)
78) Answer: E)

Directions (79-81):

79) Answer: D)
80) Answer: C)
81) Answer: D)

Directions (82-86):

82) Answer: C) (Rule 4)
If the third element is an odd number and the last element is symbol both are to be coded as the code for third element.
9@574* --> :(P+MP
83) Answer: A) (Rule 3)
If both the first and last element is symbols both are to be coded as B.
@6&75# --> B?E+PB
84) Answer: B) (Rule 1)
If the first element is symbol and the last element is even number both are to be coded as the code for last element
%48*26 --> ?MORA?
85) Answer: A) (Rule 2)
If the first element is even number and the last element is an odd number their codes are to be interchanged.
2#86$9 --> :WO?SA
86) Answer: D)
7#&6@8 --> +WE?(O

Directions (87-91):

Comics book is placed third from the extreme end.
Only two books are placed between Electrical book and the book which is placed opposite to the Comics book.
Chemistry book is not placed in adjacent to Comics books.
Only one book is placed between Chemistry book and Tamil book.
Now we have 2 Cases.

Case 1:  
Thermal  Hindi  Physics  Economics  English  Electrical
Maths  History  Comics  Tamil  Biology  Chemistry

Case 2:  
Electrical

Only three books places between Thermal book and English book.
Hindi book is placed opposite to History.
Maths book is placed second to the left of book which is placed opposite to Physics book.
Biology book is not placed at the extreme ends and also not places opposite to the Thermal book.
From the above condition Case 2 was dropped.
So the final arrangement is.

87) Answer: C)  
88) Answer: C)  
89) Answer: C)  
90) Answer: B)  
91) Answer: A)

Directions (92-93):

92) Answer: C)  
93) Answer: B)
94) Answer: D)
Code for ‘how’ is either ‘as’ or ‘ws’
95) Answer: B)
Total students = 16+49-1=64

Directions (96-100): 

E age is multiple of 5.
Only two persons were born between E and F.
Only two persons were born between C and B.
B was born before C.
C was not the youngest person.
Neither B nor A is the eldest person.
Now we have 4 Cases.

<table>
<thead>
<tr>
<th>Year</th>
<th>Age</th>
<th>Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960</td>
<td>58</td>
<td>D</td>
</tr>
<tr>
<td>1964</td>
<td>54</td>
<td>B</td>
</tr>
<tr>
<td>1970</td>
<td>48</td>
<td>H</td>
</tr>
<tr>
<td>1982</td>
<td>36</td>
<td>F</td>
</tr>
<tr>
<td>1986</td>
<td>32</td>
<td>C</td>
</tr>
<tr>
<td>1990</td>
<td>28</td>
<td>A</td>
</tr>
<tr>
<td>1993</td>
<td>25</td>
<td>E</td>
</tr>
<tr>
<td>1998</td>
<td>20</td>
<td>G</td>
</tr>
</tbody>
</table>

The difference between the age of A and D is ten more than that of G’s age.
The sum of the ages of D and A is equal to the last two digit of the birth year of C.
Neither B nor A is the eldest person.

So the final arrangement is.

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<tr>
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<tr>
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</tr>
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<td>20</td>
<td>G</td>
</tr>
</tbody>
</table>

96) Answer: A)
97) Answer: B)
98) Answer: D)
99) Answer: A)
100) Answer: B)