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Directions (1-8): Read the following passage and answer the following questions based on the given passage. Some of the words are highlighted which would help you to answer some of the questions given below.

Last year, China stopped Ant Group's blockbuster initial public offering. This came as a shock to the world as Ant Group, Alibaba's fintech arm, was on track to raise \$37 billion and its valuation was reportedly nearing more than \$300 billion. This episode was perceived as an attempt to rein in the successful entrepreneur, Jack Ma. Prior to this incident, he had committed one of the cardinal sins in modern China, which was to publicly criticize the government's tech policy for stifling innovation. China has foisted sweeping regulations, antitrust and anti-monopoly lawsuits, cyber security probes, and algorithm controls on the entire tech segment, ranging from e-commerce websites, search engines, ride-sharing and food delivery apps to e-learning portals.

China's obsessive efforts to ensure that no private entity gains enough data to ever be in a position to even remotely challenge Chinese Communist Party-led state dominance and that no competing country gains access to the citizen database through any unforeseen means, drive much of this overhaul. We should not _____ (A) _____ the fact that these efforts are limited only to the consumer tech sector. State support to manufacturing and 'hard' tech industries, which are perceived to be of higher value, including 5G/6G, semiconductor chips, artificial intelligence, biotechnologies, batteries, aviation and space tech, has only increased. We are witnessing a conscious redirection of efforts to areas that would maximize China's geopolitical and geo-economic gains. It would not be surprising to see more state-owned enterprises like ZTE and state-supported heavyweights like Huawei focus on strategic high technology and attempt to be pioneers in the global market.

These developments could be beneficial for India. The rate of digitization accelerated during the pandemic in India. Start-ups here raised a record \$10.46 billion in the first half of this year alone. India's tally of unicorns has crossed 60. This trajectory and India's projected growth will make the country the first destination of the funds fleeing Chinese stocks during these crackdowns. Not to be forgotten, the U.S. also has a far-reaching system for research and development of strategic technology. The U.S. undoubtedly remains China's lone rival in the high-tech space, and the extent of this partnership will be important for India. U.S. interests will more likely be inclined towards the possibilities of market entry and penetration of its firms. India should strive to move beyond this to complementary collaborations.

India should also remain open to partnerships with friendly nations, keeping the enhancement of its internal capacity as the objective. An example would be the ongoing talks with Taiwan to bring in a semiconductor chip manufacturing plant to India. If successful, this could drive next-generation industries, including 5G devices and electric vehicles. The **strides** India has made in sectors including biotech and space tech have shown that with the right political will and private participation, India could be self-sufficient and also reach global competitiveness. Similar concerted efforts to develop **indigenous** manufacturing and hard technology are vital if India is to retain its strategic autonomy and securely reach its stated goal of being among the largest three economies by the later stages of this decade.

Q1. Why was China's attempt to halt Ant Group's blockbuster initial public offering interpreted as an attempt to control the successful entrepreneur, Jack Ma?

- (a) Because Ant Group, led by Jack Ma, was on track to raise billions.
- (b) Because Jack Ma has repeatedly denounced the government's technology policies as impeding innovation.
- (c) Because Jack Ma has complete influence over the modern Chinese technology sector.
- (d) Both (a) and (c)
- (e) None of these

Q2. Which of the following statements is/are correct with respect to China's obsessive efforts regarding the citizen databases?

- (a) China makes every effort to ensure that no private entity obtains sufficient information about its citizens.
- (b) China makes every attempt to suppress anyone who threatens the Communist Party of China's state dominance in any way.
- (c) China also assures that no competitor country acquires access to the citizen database through any means not intended by the Chinese government.
- (d) Only (a) and (b)
- (e) All of these

Q3. How could the recent developments in China be beneficial for India?

- (a) During the pandemic in India, the rate of digitization accelerated, and start-ups raised billions in the first half of this year alone.
- (b) This tendency, compounded with India's projected growth, will put the country in a terrible spot.
- (c) As a result of the current scenario, India could be the first destination for investors looking to exit Chinese stocks.
- (d) The United States likewise has a comprehensive structure for strategic technology research and development.
- (e) None of these

Q4. According to the author, how can India be self-sufficient to reach global competitiveness?

- (a) With the appropriate political will and private involvement.
- (b) With a determined attempt to promote domestic production.
- (c) To counter competitors, it must maintain national sovereignty.
- (d) Only (a) and (b)
- (e) Both (b) and (c)

Q5. How could the ongoing discussions with Taiwan benefit India?

- (a) It will assist India in developing its own manufacturing and hard technology industries.
- (b) This has the potential to propel next-generation businesses such as 5G gadgets & electric cars.
- (c) The improvement of its internal capabilities will remain the primary goal.
- (d) It will allow India to continue to seek out collaborations with friendly countries.
- (e) None of these

Q6. Choose the most appropriate filler to fill in the blank **(A)** given in the passage.

- (a) Inclined
- (b) Consider
- (c) Overlook
- (d) Estimate
- (e) Penetrate

Q7. Choose the most appropriate synonym of the word '**STRIDE**', as highlighted in the given passage.

- (a) Remedy
- (b) Progress
- (c) Hinder
- (d) Evaluate
- (e) None of these

Q8. Choose the most appropriate antonym of the word '**INDIGENOUS**', as highlighted in the given passage.

- (a) Native
- (b) Primordial
- (c) Primeval
- (d) Expatriate
- (e) None of these

Directions (9-10): In the following questions, four sentences are given in each question. Out of the given sentences, choose the correct sentence as your answer. If all the given sentences are correct, then, your answer choice would be option **(E)**, i.e, All are correct.

Q9.

- (a) The family of one of the four farmer killed in the violence demanded a fresh autopsy.
- (b) The judges said a heavy human presence might cause a disturbance with wild animals.
- (c) Chief Minister M.K. Stalin launched a scheme to provide a monthly incentive of ₹5,000 to barbers.
- (d) The Delhi Cabinet given a financial nod to its ambitious Health Information Management System (HIMS) project.
- (e) All are correct.

Q10.

- (a) A virtual workshop was organized by the Delhi government to understand international best practices in street design and development.
- (b) The city reported 37 new COVID-19 cases as per a bulletin released by the government on Tuesday.
- (c) A 38-year-old man has been arrested for his alleged involvement in printing pirated NCERT books.
- (d) The Delhi High Court on Tuesday closed proceedings in a petition alleging non-compliance of new IT rules by Twitter.
- (e) All are correct.

Directions (11-12): In the following questions, a word has been given which is followed by three sentences. Identify the sentences where the word has been used in a contextually and grammatically correct manner.

Q11. Alacrity

- (i) The boy jumped up and down with **alacrity** as he inched closer to the candy store
 - (ii) Eileen created a **alacrity** software program to help students learn their multiplication facts.
 - (iii) Her **alacrity** to learn more about biology grew as she diligently studied the subject.
- (a) Only (i) and (iii)
 - (b) Only (ii)
 - (c) Only (i) and (ii)
 - (d) All of these
 - (e) Only (iii)

Q12. Didactic

- (i) While the professor's lectures were designed to be **didactic**, they only served to confuse the students.
 - (ii) His **didactic** style of teaching involves a large number of student-led discussions.
 - (iii) Although fiction books are not meant to be **didactic**, they are quite informative.
- (a) Only (i) and (iii)
 - (b) Only (ii)
 - (c) Only (i) and (ii)
 - (d) All of these
 - (e) Only (iii)

Directions (13-15): In each of the following questions, a sentence is given which is divided into five parts. The first part of the sentence (1) is correct and is given in bold followed by four parts named (A), (B), (C) and (D). Rearrange the four parts to make a coherent sentence. The rearranged sequence of the parts will be your answer.

Q13. Varun Gandhi has been (1)/ of farmers during their (A)/ consistently speaking in support (B)/ ongoing stir against the (C)/ Centre's new farm laws (D)

- (a) BACD
- (b) CBAD
- (c) BDAC
- (d) DBAC
- (e) No rearrangement required

Q14. US President Joe Biden (1)/ and his Chinese counterpart (A)/ by video link before (B)/ the end of the year (C)/ Xi Jinping are planning to meet (D)

- (a) BDAC
- (b) CBDA
- (c) ADBC
- (d) ACDB
- (e) No rearrangement required

Q15. Palm oil futures have (1)/ highs as a surge in crude oil markets (A)/ has lent further support to (B)/ rallied further in early October to hit record (C)/ vegetable oils used in biodiesel (D)

- (a) ABDC
- (b) CABD
- (c) BDAC
- (d) ACDB
- (e) No rearrangement required

Directions (16-17): In each of the given questions, a pair of words has been given which is then followed by three statements. Find the statements where both the words fit grammatically and contextually in the given statements.

Q16.Consistent: Analog

- (A) The decision was _____ with the company's policy.
 - (B) Your grades have shown _____ improvement this school year.
 - (C) This viewpoint seems reasonable because it is largely _____ with our everyday experience of life.
- (a) Only A
 - (b) Only B
 - (c) Both A & B
 - (d) Both A & C
 - (e) All of the above

Q17. Decisive: Pivotal

- (A) The archers played a _____ part in the victory.
 - (B) Even though three players got injured, a _____ point in the game came as my star player scored four times in a row.
 - (C) I respect a man who is _____ and follows through - as long as he confines it to his own household.
- (a) Only A
 - (b) Only B
 - (c) Both A & B
 - (d) Both B & C
 - (e) All of the above

Directions (18-20): In each of the questions given below, a situation has been stated. Answer the question, based on the paragraph.

Q18. Russian President Putin may decide not to launch an invasion, as he leaves troops near the front as leverage for negotiations. But Russian and western analysts are predicting that this military buildup – the second one this year – portends a series of future crises over Ukraine as Putin seeks to reverse its trajectory towards the west. Which of the following best describes the general opinion of Putin's stand on Ukraine?

- (a) Reconcilable
- (b) dissonant
- (c) desperate
- (d) cynical
- (e) None of this

Q19. The road to gender equity is long and hard, and despite the fact that each generation has paved a better way for the next, the struggle to overcome disparities is far from over. Through this difficult journey, the school's role in sensitizing young minds towards building a non-discriminatory world cannot be overstated. The road to gender equality can be best described as _____.

- (a) Arduous
- (b) flimsy
- (c) hasty
- (d) facile
- (e) None of these

Q20. The NMP policy advocates unlocking idle capital from non-strategic/underperforming government owned assets and reinvesting the funds, thus received, into new infrastructure projects and augmentation of assets such as greenfield infrastructure creation. This reportedly first-of-its-kind initiative claims that it will boost the economy, generate better employment opportunities, and drive the competitiveness of the Indian economy. Which of the following can best describe the NMP policy?

- (a) lethargic
- (b) meek
- (c) enterprising
- (d) subdued
- (e) None of these

Directions (21-22): In the following questions a sentence is given with a highlighted part. This highlighted part may have some grammatical or contextual errors. Following each sentence, three replacements are suggested. Choose the replacement that will make the given sentence grammatically correct. If none of the given options can replace the highlighted part, choose option (e) as your answer.

Q21. Guaranteed minimum support **prices in each crops** may be the best route to crop diversification in Punjab and Haryana.

- (i) prices for all crops may be
 - (ii) price by all crops may be
 - (iii) price for each crop can be
- (a) Only (i)
 - (b) Only (iii)
 - (c) Both (i) and (iii)
 - (d) Both (i) and (ii)
 - (e) None of these.

Q22. In a country with **perfect equality with women** and men, the female labour income share would be 50%.

- (i) perfect equality between women
- (ii) perfection equal with women
- (iii) perfect equal among woman

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

Directions (23-25): In the following questions two columns are given containing three sentences/phrases each. In the 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. Choose the appropriate option. If none of the options given forms a correct sentence after combination, mark (e), i.e. "None of these" as your answer.

Q23. COLUMN I

- (A) The Union Cabinet on Wednesday approved a new scheme to boost conductor
- (B) Taking the total amount of incentives announced for the electronics sector
- (C) Tamil Nadu on Wednesday reported the first case of the Omicron variant

COLUMN II

- (D) after whole-genome sequencing of the sample of an old man detected it.
- (E) through the incentives to display annual manufacturing in the country.
- (F) will work with the States to set up clusters with the required infrastructure.

- (a) Only A-E and B-D
- (b) Only B-F
- (c) Only A-F
- (d) Only C-D
- (e) None of these



Q24. COLUMN I

- (A) The Kerala government appears to have won the first round in the legal sparring
- (B) Two cases of Omicron were detected in Telangana on Tuesday night
- (C) Both of them came to the city from 'non-risk' countries on December 12.

COLUMN II

- (D) was traced in a matter of a few hours after receiving the genome sequencing results.
- (E) that has shuffled the familiar patterns, rules, and stratagems of the old in an unexpected way.
- (F) over the contentious decision to extend the tenure of Vice-Chancellor beyond the retirement age.

- (a) Only A-E and B-D
- (b) Only C-F
- (c) Only A-F
- (d) Only C-D
- (e) Both (a) and (b)

Q25. COLUMN I

- (A) The 'Vande Bharat Mission' to bring stranded Non-Resident Keralites back home got off
- (B) At a time that India is looking to impress upon the world that it is strongly positioned by
- (C) Two flights from the Gulf carrying passengers touching down at the Cochin airport

COLUMN II

- (D) a sudden spike in COVID-19 positive cases after the migrant workers started returning home
 - (E) become a more reliable supply chain partner for them in recent times.
 - (F) now tops the districts with the highest number of COVID-19 positive cases in the state
- (a) Only A-E and B-D
 - (b) Only B-F
 - (c) Only A-E
 - (d) Only C-D
 - (e) None of these

Q26. Three siblings Arjun, Vinita and Rajesh start a business. Arjun invests triple the sum invested by Vinita and Rajesh invests $\frac{5}{6}$ th of investment of Vinita. If the ratio of time duration of investment of Arjun, Vinita and Rajesh are in the ratio 2:5:3 and the share of Rajesh in the profit is Rs800, then find the total profit.

- (a) Rs.4800
- (b) Rs.4320
- (c) Rs.4600
- (d) Rs.5820
- (e) Rs.5400

Q27. In a mixture of milk and water, the quantity of water is 30% less than the quantity of milk. When 6 liters of pure milk were added then the quantity of milk becomes 60% more than the quantity of water. What is the quantity of water in the initial mixture?

- (a) 40 liters
- (b) 25 liters
- (c) 38 liters
- (d) 45 liters
- (e) 35 liters

Directions (28-29): In the given questions, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine the relationship between two quantities and choose the appropriate option:

Q28. Quantity I – The ratio between Suman's and Raju's present age is 9:11 and, Raju is 6 years elder to Suman. What will be the age of Suman

Quantity II – 25 years

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I \geq Quantity II
- (d) Quantity I \leq Quantity II
- (e) Quantity I = Quantity II or no relation

Q29. Quantity I – If the rate of interest for the first two years is 10% and for the last three years is 15%, then find the simple interest accrued on a principle of Rs.6000 in five years

Quantity II – Rs.3900

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I \geq Quantity II
- (d) Quantity I \leq Quantity II
- (e) Quantity I = Quantity II or no relation

Q30. Amit starts doing a work and after 15 days of continuous work he completed 62.5% of total work. If the remaining work is completed by Amit with the help of Hemant in 6 days, find the ratio between the efficiency of Amit and Hemant.

- (a) 1 : 2
- (b) 1 : 3
- (c) 2 : 3
- (d) 2 : 1
- (e) 3 : 1

Q31. A person invests his money in two schemes. He invested Rs (X+20000) in scheme A at 10% simple interest for three years and Rs X in scheme B at 15% simple interest for three years. If after three years he got total Rs 36000 interest. Find value of X.

- (a) Rs 25000
- (b) Rs 35000
- (c) Rs 50000
- (d) Rs 45000
- (e) Rs 40000

Directions (32-34): Find the wrong number in the given series.

Q32. 3, 5, 14, 48, 200, 1020, 6072

- (a) 1020
- (b) 200
- (c) 6072
- (d) 5
- (e) 48

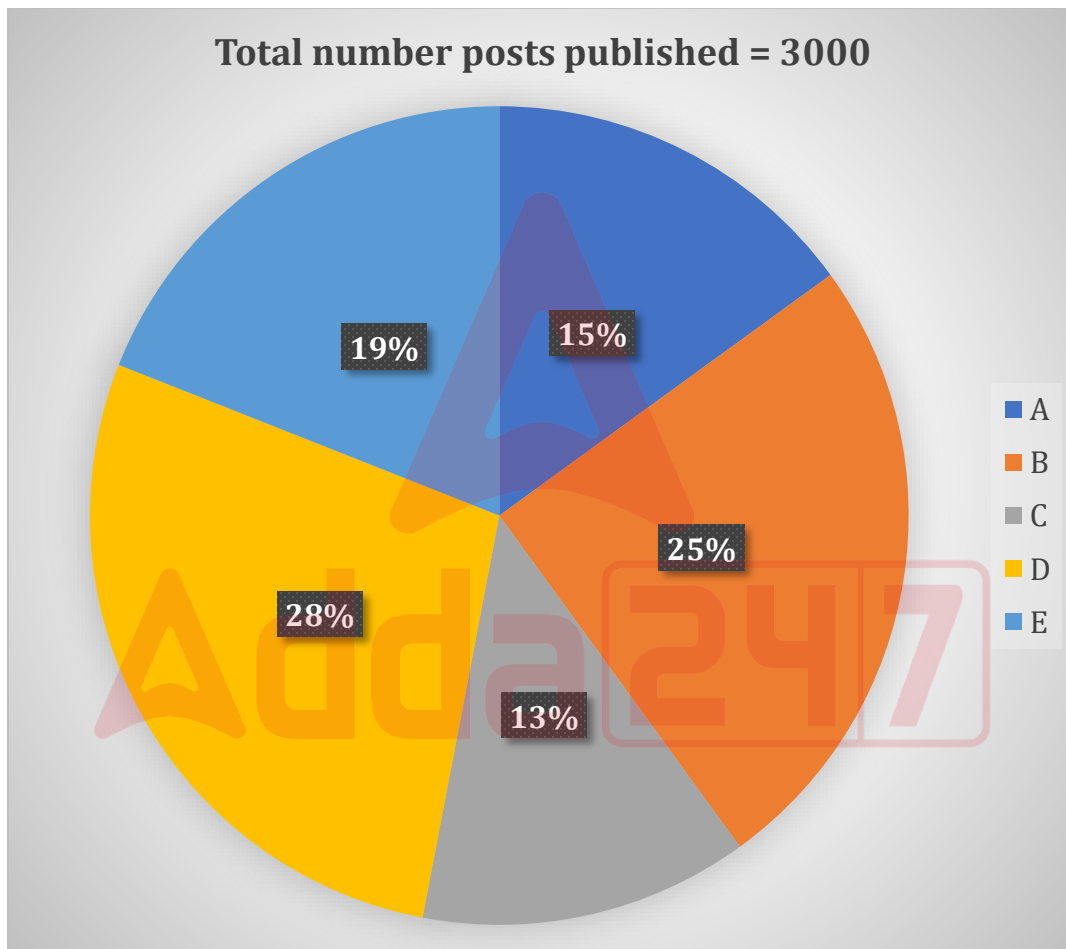
Q33. 48, 84, 156, 300, 590, 1164, 2316

- (a) 300
- (b) 590
- (c) 48
- (d) 156
- (e) 2316

Q34. -18, -8, 12, 36, 70, 112, 162

- (a) -18
- (b) 36
- (c) 70
- (d) 162
- (e) 12

Direction (35-38): The pie chart given below shows percentage distribution of total number posts published by five different (A, B, C, D and E) people in year 2021. Read the data carefully and answer the questions.



Q35. Out of total posts published by B, $\frac{2}{5}$ th are images and rest are videos. If 20% of total images and 40% of total videos removed by B, then find total number of posts that are not removed.

- (a) 580
- (b) 490
- (c) 510
- (d) 610
- (e) 530

Q36. Total post published by X are equal to average number of posts published by C and E. If 12.5% of total post published by X are GIF image and the remaining posts are videos and images. The ratio of images to videos published by X is 9: 5, then find total videos published by X is what percent of total posts published by A.

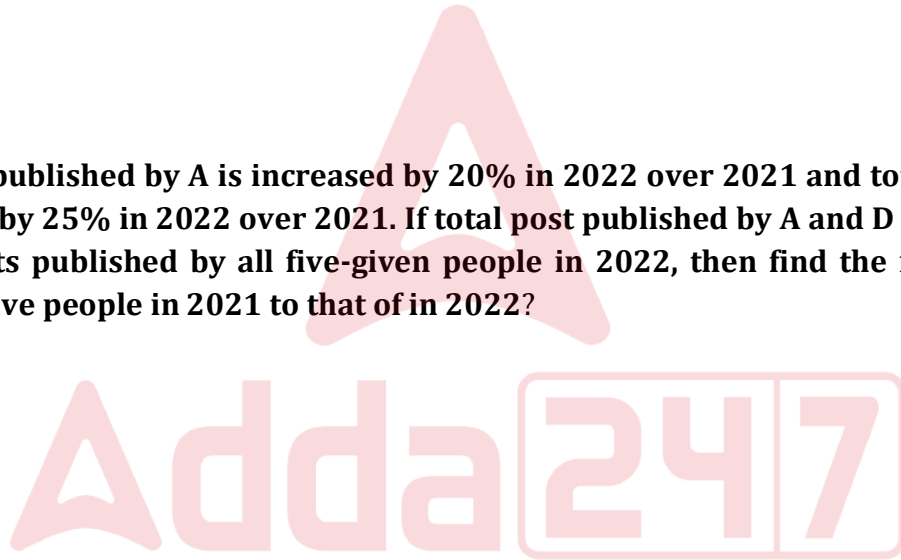
- (a) 27.33%
- (b) 66.66%
- (c) 33.33%
- (d) 37.25%
- (e) 30.33%

Q37. 60% of total posts published by A and D together are photos and rest are videos. If the ratio of total videos published by A to that of by D is 5 : 7, then find the difference between total videos published by A and total posts published by E?

- (a) 375
- (b) 315
- (c) 335
- (d) 355
- (e) 345

Q38. Total posts published by A is increased by 20% in 2022 over 2021 and total posts published by D is increased by 25% in 2022 over 2021. If total post published by A and D together in 2022 is 30% of total posts published by all five-given people in 2022, then find the ratio of total posts published by all five people in 2021 to that of in 2022?

- (a) 30 : 49
- (b) 30 : 41
- (c) 30 : 61
- (d) 30 : 53
- (e) 30 : 47



Directions (39-40): In each of these questions, two equation (I) and (II) are given. You have to solve both the equations and give answer.

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or no relation can be established between x and y

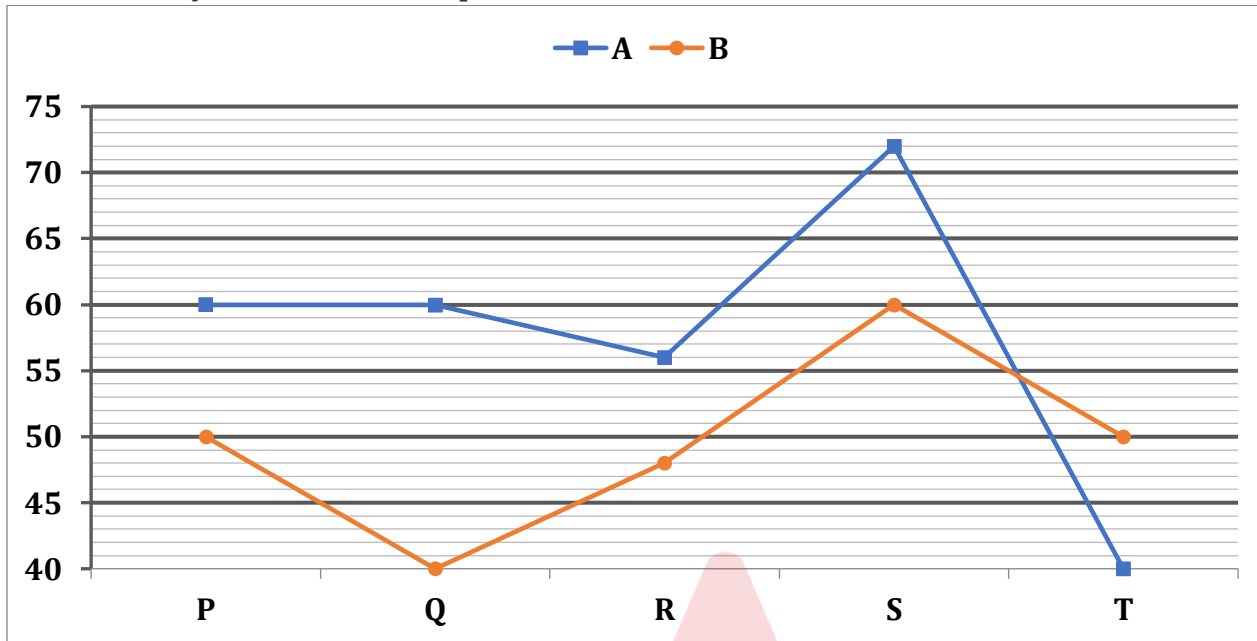
Q39. I. $x^2 + 3x - 40 = 0$

II. $y^2 - 11y + 30 = 0$

Q40. I. $2x^2 + 7x - 15 = 0$

II. $3y^2 + 5y - 12 = 0$

Direction (41-43): Line graph given below shows percentage of total quantity of milk in five different vessels (P, Q, R, S and T) out of total mixture of milk and water in these vessels for two different milkmen (A and B). Capacity of these five vessels equal for both the milkmen. Read the data carefully and answer the questions.



Q41. If average of quantity of water in vessel R for both the milkmen is 960 liters and total mixture in vessel P is 40% more than total mixture in vessel R, then find difference between quantity of water in vessel P for both the milkmen?

- (a) 240 l
- (b) 220 l
- (c) 320 l
- (d) 280 l
- (e) 300 l

Q42. If ratio between capacity of vessel P to vessel T is 2: 3 and difference between total quantity of milk in vessel P and vessel T for both the milkmen is 180 liters, then find the difference between total quantity of water in vessel P and T for both the milkmen?

- (a) 540 l
- (b) 520 l
- (c) 548 l
- (d) 480 l
- (e) 524 l

Q43. Which option required to find difference between capacity of vessel S and T?

- (a) Difference between milk in vessel S of A and water in vessel T of B is 320 l.
- (b) difference between water in vessel S of B and milk in vessel T of A is 200 l
- (c) none of these
- (d) Ratio of capacity of S & T is 3: 2 and difference between water in vessel S of B and milk in vessel T of A is 200 l.
- (e) Either (b) or (d)

Q44. Marked price of an article is 40% above its cost price and when shopkeeper allows 'd'% discount then shopkeeper make a profit of _____% and when shopkeeper allows '2d'% discount then he make a profit of _____%. Which of the following options possible to fill both respective blanks?

(A) (22.5, 5)

(B) (33, 26)

(C) (19, 2)

(D) (26, 12)

(E) (23.2, 6.4)

(a) Only option A, B, C possible

(b) Only option B, D & E possible

(c) Only option A, B, D & E possible

(d) All of above options are possible

(e) Only B, C, D & E possible

Q45. A set of five integers is given. Average of first and last number is middle number. Second number is ten more than first number. Sum of first three numbers is 198. Middle number is (X) and average of five numbers is (Y). Fourth number is 96. What can be the values come in the place of (X) and (Y) respectively?

(A) (72, 50)

(B) (64, 48)

(C) (60, 70)

(D) (124, 102)

(E) (84, 82)

(a) Only option A, B, C possible

(b) Only option B, D & E possible

(c) Only option A, B, D & E possible

(d) All of above options are possible

(e) Only option C, D & E possible

Directions (46–50): Read the given information carefully and answer the following questions.

In a company, there are two manufacturing units – Units A and Units B and each of these manufacturing units produce same type of product. The number of employees (males and females) in Unit A is less than 100 while that in Unit B is not less than 75. Number of products produce by a woman employee is not more than two while in same time a man employee produces not less than 3 products. An employee can be either beginner or experienced.

The number of beginner males in Unit B is 10 less than half the number of beginner female in Unit A. The ratio of experienced female in Unit A to experienced male in Unit B is 5: 3. The number of beginner male in Unit A is 5 less than thrice the experienced female in Unit B. The number of experienced in Unit B is 35 less than the number of females in Unit A. The number of beginners in Unit A is 30 more than the number of males in Unit B. The number of beginner females in Unit B is thrice the number of experienced males in Unit A. Number of beginner males in Unit B is at least 6.]

Q46. Find the number of experienced female employees in Unit A?

- (a) 45
- (b) 40
- (c) 30
- (d) 20
- (e) 25

Q47. What could be the possible number of beginner employees in the company?

I. 102 II. 108 III. 99 IV. 101 V. 104

- (a) Only I and III
- (b) Only I
- (c) Only II and III
- (d) Only II and IV
- (e) Only II and V

Q48. What could be the possible difference between number of beginner females in Unit A and number of beginner females in Unit B?

- (a) 10
- (b) 13
- (c) Either (a) or (d)
- (d) 16
- (e) Either (a) or (b)

Q49. Which of the following options has minimum number of employees?

- (a) Experienced female (Unit B)
- (b) Beginner male (Unit A)
- (c) Beginner female (Unit B)
- (d) Experienced male (Unit B)
- (e) Beginner female (Unit A)

Q50. Find ratio of total number of beginner employees in Unit A to total number of male employees in Unit B?

- (a) 3: 2
- (b) 5: 2
- (c) 2: 1
- (d) 8: 3
- (e) 9: 4

Directions (51-55): Study the following information carefully and answer the given questions.

Eight students submit their projects in different months starting from January to August of the same year (this is the leap year). B submits projects in the month which has even number of days. Two students submit their projects between B and D. More than three students submit their projects between D and C. F submits project immediate after A who submits in the month which has odd number of days. H submits project before C but not immediate before. Two students submit project between E and H. Not less than two students submit their project between G and C who does not submit the report before A.

Q51. Who among the following submits the project in February?

- (a) A
- (b) F
- (c) H
- (d) G
- (e) None of these

Q52. How many students submit project between A and G?

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

Q53. Who among the following person submits project in the last month?

- (a) F
- (b) H
- (c) G
- (d) C
- (e) None of these

Q54. Who among the following submits project immediate before H?

- (a) D
- (b) G
- (c) F
- (d) E
- (e) None of these

Q55. Four of the following five pairs are alike in a certain way so form a group, which of the following does not belong to that group?

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

Directions (56-60): Read the following arrangement of three-digit numbers carefully and answer the following questions.

456 734 856 298 522

Q56. If we arrange all the numbers in descending order from the left end then how many numbers will remain unchanged after the rearrangement?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

Q57. What will be the sum of the 2nd digit of the second number from the right end and the 3rd digit of the first number from the left end of the given arrangement?

- (a) 12
- (b) 15
- (c) 11
- (d) 10
- (e) None of these

Q58. If we arrange all the digits of the number in ascending order within the numbers then which number will be the second-highest after the rearrangement?

- (a) 456
- (b) 734
- (c) 856
- (d) 298
- (e) 522

Q59. What will be the absolute difference between the 2nd digit of the first number from the right end and the 1st digit of the second number from the left end of the given arrangement?

- (a) 2
- (b) 3
- (c) 4
- (d) 5
- (e) None of these

Q60. Which of the following numbers is/are divisible by three?

- (a) 522
- (b) 456
- (c) Both (a) and (b)
- (d) 298
- (e) 856

Directions (61-62): In the questions given below, the relationship between different elements is shown in the statements. These statements are followed by two conclusions. Mark 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 conclusion I and II follow.

Q61. Statements: $P = Q < X \leq M$; $Q > 0$; $X > V$

Conclusions:

- I.** $P > V$
- II.** $M > 0$

Q62. Statements: $R \geq U \geq W > O > E$; $W \geq K = P$; $O > M \geq N$

Conclusions:

I. $R > N$

II. $U \geq P$

Directions (63-65): Study the following information and answer the given questions

Point P is 16m to the East of Point Q. Point R is 6m to the South of Point Q. Point S is 4m to the North of Point P. Point T lies exactly between Point P and Point Q. Point U is 12m to the West of Point S. Point V is 7m to the South of Point U.

Q63. In which direction is Point U with respect to Point Q?

- (a) North
- (b) Northeast
- (c) South
- (d) Southwest
- (e) Cannot be determined

Q64. What is the shortest distance between Point T and Point V?

- (a) 3m
- (b) 4m
- (c) 5m
- (d) 7m
- (e) Cannot be determined

Q65. In which direction is Point V with respect to Point P?

- (a) South
- (b) North
- (c) Northeast
- (d) Southwest
- (e) None of these

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

Eight persons P, Q, R, S, T, U, V and W are sitting around a circular table. Some of them are facing inside the center while some are facing outside the center. Persons who face inside the center like some season and persons who face outside the center like some flower.

Q sits third to the right of P and likes Lily. T sits second to the right of U. Only two persons sit between the one who likes rose and the one who likes spring season. U sits third to the left of V who is an immediate neighbour of Q. V likes winter season. T is an immediate neighbour of V and does not like flower. The one who likes monsoon season sits third to the left of P. The one who like summer season sits second to the right of the one who likes daisy. R is not an immediate neighbor of P and likes a flower. S neither likes summer nor autumn season.

Q66. Who among the following sits immediate right of the one who likes rose?

- (a) U
- (b) T
- (c) the one who likes Winter season
- (d) Q
- (e) W

Q67. How many persons sits between W and the one who likes monsoon season when counted in anticlockwise direction with respect to W?

- (a) One
- (b) Three
- (c) Two
- (d) Four
- (e) No one

Q68. Who among the following faces the one who likes spring season?

- (a) P
- (b) The one who likes summer
- (c) T
- (d) The one who likes autumn season
- (e) R

Q69. Who among the following is an immediate neighbour of both T and the one who likes Autumn?

- (a) the one who likes winter season
- (b) R
- (c) S
- (d) U
- (e) the one who likes summer season

Q70. Who among the following sits opposite to the one who sits 2nd to the right of S?

- (a) R
- (b) U
- (c) P
- (d) Q
- (e) T

Direction (71-75): Study the following information carefully and answer the following questions.

In a certain code language,

'Challenges Great People' is written as 'U@6 F#4 G@6'

'Broad Mind Society' is written as 'V#4 V@2 A@6'

'Industrial Development Despite' is written as 'F#8 N#8 U@6'

Q71. What is the code for 'Energetic'?

- (a) X#6
- (b) X@6
- (c) W#8
- (d) W@6
- (e) None of these

Q72. What is the code for 'Quarantine'?

- (a) V@10
- (b) U@10
- (c) R@10
- (d) S@10
- (e) None of these

Q73. What is the code for 'Excess Knowledge'?

- (a) V@5 T@4
- (b) G@4 U#4
- (c) V#4 U#4
- (d) G#4 U@6
- (e) None of these

Q74. What is the code for 'Great Success'?

- (a) F#4 G@4
- (b) F@4 G#4
- (c) F#4 G#4
- (d) F@4 G@4
- (e) None of these

Q75. What is the code for 'Discrimination'?

- (a) L@12
- (b) L#12
- (c) M@12
- (d) M#12
- (e) None of these

Q76. In February 2023, in a move to harness the export potential of millets to the countries belonging to which grouping, the Agricultural and Processed Food Products Export Development Authority (APEDA) signed a Memorandum of Understanding (MoU) with Lulu Hypermarket LLC?

- (a) African Union
- (b) ASEAN
- (c) Gulf Cooperation Council
- (d) European Union
- (e) BIMSTEC

Q77. Consider the following statements with reference to the Centrally Sponsored Scheme 'Pradhan Mantri Poshan Shakti Nirman (PM POSHAN)'.

1. The Scheme is meant to provide one hot cooked meal in Government and Government – aided Schools from 2021-22 to 2025-26.
2. The Scheme is being implemented by the Ministry of Women Welfare and Child Development.
3. The central government has constituted a Joint Review Mission to visit the State of West Bengal to review the implementation of PM POSHAN Scheme.
4. The earlier name of the scheme is Mid-Day Meal Scheme.

Identify the correct statement regarding above using the codes given below.

- (a) only 1 and 2
- (b) only 2 and 3
- (c) only 1, 2 and 3
- (d) only 1, 3 and 4
- (e) All 1, 2 3, and 4

Q78. In which city the Anil Agarwal International Cricket Stadium is being built that will be India's second-largest and the world's third-largest cricket stadium?

- (a) Bengaluru
- (b) Jaipur
- (c) Noida
- (d) Lucknow
- (e) Indore

Q79. In April 2023, for which of the following sectors has the ICICI Bank launched 'Open-for-all', a comprehensive digital ecosystem including customers of other banks?

- (a) Startups
- (b) MSMEs
- (c) Private Corporates
- (d) Public Sector Undertakings
- (e) All of the above

Q80. On which date is World Wildlife Day (WWD) celebrated every year to draw attention to issues of conservation of flora and fauna?

- (a) 3rd March
- (b) 8th March
- (c) 14th March
- (d) 22nd March
- (e) 27th March

Q81. The Government of India is planning to create ten clean plant centres to focus on increasing the production of which of the following crops, as announced by the finance minister Nirmala Sitaraman during her budget speech 2023-24?

- (a) Flower
- (b) Fruits
- (c) Cotton
- (d) Cereal
- (e) Vegetables

Q82. LLaMA, a large language model is developed by which of the following company that is similar to ChatGPT?

- (a) META
- (b) Google
- (c) Spece-X
- (d) Amazon
- (e) Microsoft

Q83. Which type of deposit account is provided by a bank or other financial institutions for individuals to save money and earn the modest interest for that money held in the account?

- (a) Savings Bank Account
- (b) Recurring Account
- (c) Current Account
- (d) Fixed Deposit Account
- (e) Loro Account

Q84. Consider the following pairs of operations conducted by Indian government with their targets:

1. Operation Ganga- Evacuation mission to bring back all the Indian citizens from Ukraine
2. Operation Kaveri- Evacuation operation to bring back Indian nationals owing to the Current Crisis in Sudan.
3. Operation Samudra Setu- Naval operation to help neighboring countries during COVID-19 pandemic
4. Vande Bharat: to bring back Indian citizens stuck in foreign countries during initial phase of the Covid-19 pandemic

Which of the above pair(s) is not correctly matched with its target?

- (a) only 1
- (b) only 2
- (c) only 3
- (d) only 2 and 4
- (e) only 3 and 4



Q85. Barisu Kannada Dindimava is a rich cultural heritage festival of which state that was inaugurated by Prime Minister Narendra Modi at Talkatora Stadium, New Delhi in February 2023?

- (a) Karnataka
- (b) Tamil Nadu
- (c) Telangana
- (d) Maharashtra
- (e) Arunachal Pradesh

Q86. In April 2023, which of the following banks has reintroduced its retail term deposit, Amrit Kalash, which will offer an interest rate of 7.6 percent to senior citizens and 7.1 percent to others?

- (a) Bank of India
- (b) Bank of Baroda
- (c) Canara Bank
- (d) State Bank of India
- (e) Punjab National Bank

Q87. Which of the following is/are the part of the National Health Mission?

- (a) National Urban Health Mission
- (b) National Rural Health Mission
- (c) Tertiary Care Programmes
- (d) Human Resources for Health and Medical Education
- (e) All of the above

Q88. What is the theme of the 'World Earth Day 2023'?

- (a) Invest in Our Planet
- (b) Restore Our Earth
- (c) Climate action
- (d) Protect Our Species
- (e) Protect Our Mother Earth

Q89. Organization of the Petroleum Exporting Countries (OPEC) has how many member countries?

- (a) 10
- (b) 13
- (c) 16
- (d) 19
- (e) 25

Q90. According to a statement released by Railway Minister Ashwini Vaishnaw in March 2023, Indian Railways has set a target of becoming a 'net-zero carbon emitter' by_____.

- (a) 2026
- (b) 2028
- (c) 2030
- (d) 2032
- (e) 2035

Q91. In February 2023, who has been appointed as the new brand ambassador of Sports brand Puma India as a part of its commitment towards the women's business?

- (a) Rashmika Mandhana
- (b) Smriti Mandhana
- (c) Harmanpreet Kaur
- (d) Deepti Sharma
- (e) Jhulan Goswami

Q92. The Reserve Bank of India has laid the foundation stone for the establishment of a 'Greenfield Data Centre' and 'Enterprise Computing & Cybersecurity Training Institute' in _____.

- (a) Mumbai, Maharashtra
- (b) Bhubaneswar, Odisha
- (c) Jaipur, Rajasthan
- (d) Bengaluru, Karnataka
- (e) Hyderabad, Telangana

Q93. Which institute has been ranked first in India and 47th globally in Engineering and Technology in the Quacquarelli Symonds (QS) World University Rankings by Subject for 2023?

- (a) Indian Institute of Technology (IIT) Delhi
- (b) Indian Institute of Technology (IIT) Kanpur
- (c) Indian Institute of Technology (IIT) Madras
- (d) Indian Institute of Technology (IIT) Kharagpur
- (e) Indian Institute of Technology (IIT) Bombay

Q94. In March 2023, for which Indian state, the World Bank approved a USD 363 million loan to provide a clean drinking water supply to two million rural households in the state?

- (a) Odisha
- (b) Karnataka
- (c) Telangana
- (d) Madhya Pradesh
- (e) Jharkhand

Q95. In March 2023, which Indian state enacted Right to Health Act (RTH) 2023 and becomes the first state to guarantee Right to Health inconsistent with the Right to Life under Article 21 of the Constitution?

- (a) Chhattisgarh
- (b) Madhya Pradesh
- (c) Rajasthan
- (d) Punjab
- (e) Kerala

Q96. Which of the following is not among the top five wealthiest cities as per the “World’s Wealthiest Cities Report 2023” published by London-based consultancy Henley & Partners?

- (a) New York City
- (b) Tokyo
- (c) The Bay Area
- (d) London
- (e) Sydney

Q97. In March 2023, the Reserve Bank of India (RBI) allowed banks from how many countries to open Special Vostro Rupee Accounts (SVRAs) for settling payments in Indian rupees?

- (a) 12
- (b) 15
- (c) 18
- (d) 20
- (e) 24

Q98. In January 2023, which of the following payment gateway provider became India’s FIRST payment gateway player to process Central Bank Digital Currency (CBDC)?

- (a) Braintree
- (b) Stripe
- (c) Checkout
- (d) WePay
- (e) CCAvenue

Q99. According to the Global Unicorn Index 2023 by Hurun, what is India's position in terms of having unicorns?

- (a) first
- (b) second
- (c) third
- (d) fourth
- (e) fifth

Q100. In February 2023, where has the Ministry of Commerce and Industry approved the establishment of the India Centre for Lab-Grown Diamonds (InCent-LGD) at an estimated cost of Rs 243 crore over the next five years?

- (a) IIT Bombay
- (b) IIT Madras
- (c) IIT Delhi
- (d) IIT Roorkee
- (e) IIT Kanpur

Solutions

S1. Ans.(b)

Sol. Among the given options, only statement (b) is correct with respect to the information provided in the given passage. Hence, option (b) is the right answer choice.

Refer to the third line of the first paragraph, *"This episode was perceived as an attempt to rein in the successful entrepreneur, Jack Ma. Prior to this incident, he had committed one of the cardinal sins in modern China, which was to publicly criticize the government's tech policy for stifling innovation."*

S2. Ans.(e)

Sol. All of the given statements are correct with respect to China's obsessive efforts regarding the citizen databases. Hence, option (e) is the right answer choice.

Refer to the starting lines of the second paragraph, *"China's obsessive efforts to ensure that no private entity gains enough data to ever be in a position to even remotely challenge Chinese Communist Party-led state dominance and that no competing country gains access to the citizen database through any unforeseen means, drive much of this overhaul."*

S3. Ans.(c)

Sol. Among the given options, only statement (c) is correct based on the information provided in the given passage. Hence, option (c) is the right answer choice.

Refer to the starting lines of the third paragraph, *"These developments could be beneficial for India. The rate of digitization accelerated during the pandemic in India. Start-ups here raised a record \$10.46 billion in the first half of this year alone. India's tally of unicorns has crossed 60. This trajectory and India's projected growth will make the country the first destination of the funds fleeing Chinese stocks during these crackdowns."*

S4. Ans.(d)

Sol. Among the given options, only (a) and (b) are correct. Hence, option (d) is the right answer choice.

Refer to the concluding lines of the fourth paragraph, *"The strides India has made in sectors including biotech and space tech have shown that with the right political will and private participation, India could be self-sufficient and also reach global competitiveness. Similar concerted efforts to develop indigenous manufacturing and hard technology are vital if India is to retain its strategic autonomy and securely reach its stated goal of being among the largest three economies by the later stages of this decade."*

S5. Ans.(b)

Sol. Among the given options, only statement (b) is correct with respect to the information provided in the given passage. Hence, option (b) is the right answer choice.

Refer to the starting lines of the fourth paragraph, *"India should also remain open to partnerships with friendly nations, keeping the enhancement of its internal capacity as the objective. An example would be the ongoing talks with Taiwan to bring in a semiconductor chip manufacturing plant to India. If successful, this could drive next-generation industries, including 5G devices and electric vehicles."*

S6. Ans.(c)

Sol. Among the given options, 'overlook' is the most appropriate word to fill in the given blank. The concerned sentence states that we must not lose sight of the fact that these efforts are limited to the consumer technology sector. Hence, option (c) is the right answer choice.

- (a) Inclined- leaning or turning away from the vertical or horizontal; sloping.
- (b) Consider- think carefully about (something), typically before making a decision.
- (c) Overlook- to fail to notice or consider something or someone:
- (d) Estimate- roughly calculate or judge the value, number, quantity, or extent of.
- (e) Penetrate- go into or through (something), especially with force or effort.

S7. Ans.(b)

Sol. Among the given options, 'progress' is the most appropriate synonym of the given word. Hence, option (b) is the right answer choice. Stride means a step or stage in progress towards an aim.

- (a) Remedy- a medicine or treatment for a disease or injury.
- (b) Progress- forward or onward movement towards a destination.
- (c) Hinder- make it difficult for (someone) to do something or for (something) to happen.
- (d) Evaluate- form an idea of the amount, number, or value of; assess.

S8. Ans.(d)

Sol. Among the given words, 'expatriate' is the most appropriate antonym of the given word. Hence, option (d) is the right answer choice. Indigenous means originating or occurring naturally in a particular place; native.

- (a) Native- associated with the place or circumstances of a person's birth.
- (b) Primordia- an organ, structure, or tissue in the earliest stage of development.
- (c) Primeval- of the earliest time in history.
- (d) Expatriate- an individual living and/or working in a country other than his or her country of citizenship.

S9. Ans.(c)

Sol. In sentence (a), 'farmer' should be replaced with 'farmers'. In sentence (b), 'with' should be replaced with 'to'. In sentence (d), 'given' should be replaced with 'gave'. Therefore, only sentence (c) is correct. Hence, option (c) is the right answer choice.

S10. Ans.(e)

Sol. All the given sentences are grammatically and contextually correct. Hence, option (e) is the right answer choice.

S11. Ans.(a)

Sol. The word 'alacrity' means brisk and cheerful readiness. Thus, it has been used correctly in only (i) and (iii). While in statement (ii), 'alacrity' will be replaced by 'didactic' meaning intended to teach, particularly in having moral instruction as an ulterior motive. Hence, option (a) is the right answer choice.

S12. Ans.(d)

Sol. The term 'didactic' means intended to teach, particularly in having moral instruction as an ulterior motive. Thus, it has been used correctly in all the given sentences. Hence, option (d) is the right answer choice.

S13. Ans.(a)

Sol. Among the given options, the most appropriate arrangement would be 'BACD'. Hence, option (a) is the right answer choice. The sentence thus formed would be, *"Varun Gandhi has been consistently speaking in support of farmers during their ongoing stir against the Centre's new farm laws."*

S14. Ans.(c)

Sol. Among the given options, the most appropriate arrangement would be 'ADBC'. Hence, option (c) is the right answer choice. The sentence thus formed would be, "US President Joe Biden and his Chinese counterpart Xi Jinping are planning to meet by video link before the end of the year."

S15. Ans.(b)

Sol. Among the given options, the most appropriate arrangement would be 'CABD'. Hence, option (b) is the right answer choice. The sentence thus formed would be, "Palm oil futures have rallied further in early October to hit record highs as a surge in crude oil markets has lent further support to vegetable oils used in biodiesel."

S16. Ans.(d)

Sol. Here "Consistent" means "agreeing with or similar to something or always having the same opinion" "Analog" means "a person or thing seen as comparable to another". Thus, the sentences in which both of these words can fit perfectly are (A) and (C)

S17. Ans.(c)

Sol. "Decisive" means "making something certain or final or having the ability to make clear decisions quickly" and "Pivotal" means "vitaly important: critical". Thus, the sentences in which both of these words can fit perfectly are (A) and (B).

S18. Ans.(b)

Sol. Putin's rhetoric stance on Ukraine has driven distorted views from the analysts, as in one point it is prepared with the military base and in other it has leveraged negotiation with Ukraine, thus, the word that best describes analyst's opinion on Putin is: dissonant. Dissonant means lacking harmony.

Reconcilable means capable of being reconciled; compatible.

Desperate means feeling or showing a hopeless sense that a situation is so bad as to be impossible to deal with.

Cynical means believing that people are motivated purely by self-interest; distrustful of human sincerity or integrity.

S19. Ans.(a)

Sol. The road to gender equality has never been an easy one, even though one generation paving the path for the next one. Hence, the word that best describes the path is "arduous" as it means full of difficulties; needing a lot of effort.

Flimsy means insubstantial and easily damaged.

Hasty means done with excessive speed or urgency; hurried.

Facile means ignoring the true complexities of an issue; superficial.

S20. Ans.(c)

Sol. The NMP policy has envisaged utilizing underperforming assets in the new infrastructural projects. This new monetization concept is ambitious and industrious. Thus, can be termed as "enterprising". Enterprising means having or showing the ability to think of new projects or new ways of doing things.

Lethargic means affected by lethargy; sluggish and apathetic.

Meek means quiet, gentle, and easily imposed on; submissive.

Subdued means quiet and rather reflective or depressed

S21. Ans.(c)

Sol. The highlighted phrase in the given sentence is incorrect. Here, 'in' should be replaced with 'for' and 'crops' should be replaced with 'crop' as per the appropriate grammatical rules. The preposition 'in' is used to express the situation of something that is or appears to be enclosed or surrounded by something else. While 'for' is used to talk about a purpose or a reason for something. Moreover, 'crops' and 'crop' as well as 'can' and 'may' bring out the clear meaning with suitable grammatical rules. Thus, we can infer that both (i) and (iii) will make the given sentence grammatically correct.

S22. Ans.(a)

Sol. The highlighted phrase in the given sentence is incorrect. Here, 'with' should be replaced with 'between' to make the sentence grammatically correct. 'With' means 'having or possessing (something)'. While 'between' is used to indicate a connection or relationship involving two or more parties. Thus, we can infer that only (i) will make the given sentence grammatically correct.

S23. Ans.(d)

Sol. From the given sentence combinations, only C-D can be connected to form a meaningful sentence. The sentence thus formed is: *"Tamil Nadu on Wednesday reported the first case of the Omicron variant after whole-genome sequencing of the sample of an old man detected it."*

S24. Ans.(c)

Sol. From the given sentence combinations, only A-F can be connected to form a meaningful sentence. The sentence thus formed is: *"The Kerala government appears to have won the first round in the legal sparring over the contentious decision to extend the tenure of Vice-Chancellor beyond the retirement age."*

S25. Ans.(e)

Sol. None of the given sentences can be connected to form a meaningful sentence.

S26. Ans.(b)

Sol. Let Vinita invests 'Rs.a'

Arjun's investment = 3a

And Rajesh's investment = $\frac{5}{6}a$

A.T.Q,

Ratio of profit = Capital x Time

Capital = $3a \times 2 : a \times 5 : \frac{5}{6}a \times 3 = 12 : 10 : 5$

Share of Rajesh = Rs.800

$\frac{5}{27} \times \text{Total profit} = 800$

Total profit = $800 \times \frac{27}{5} = \text{Rs. } 4320$

S27. Ans.(e)

Sol. Let the quantity of Milk = 10x liters

Then the quantity of Water = (100 - 30) % of 10x
= 70% of 10x = 7x liters

When 6 liters of Milk was added then the quantity of Milk = (10x + 6) liters

And the quantity of Water = 7x liters

ATQ,

160% of 7x = (10x + 6)

$\frac{160}{100} \times 7x = 10x + 6$

$112x = 100x + 60$

$112x - 100x = 60$

$12x = 60$

$x = 5$ liter

So, the quantity of water in the initial mixture = $5 \times 7 = 35$ liters.

S28. Ans.(a)

Sol. Quantity I - Let the present age of Suman and Raju be 9x and 11x.

As, Raju is 6years elder to Suman,

So, $11x - 9x = 6$

i.e., $x = 3$

So, Suman' age = 27 years.

Quantity II - 25 years

S29. Ans.(e)

Sol. Quantity I -

S.I = $\frac{6000 \times 2 \times 10}{100} + \frac{6000 \times 3 \times 15}{100} = 1200 + 2700 = \text{Rs. } 3900$

Quantity II - Rs.3900

S30. Ans.(d)**Sol.** let total work be 240 units.Amount of work completed by Amit = $\frac{62.5}{100} \times 240 = 150 \text{ units}$ So, efficiency of Amit = $\frac{150}{15} = 10 \text{ units/day}$ Remaining work = $240 - 150 = 90 \text{ units}$ Amount of work completed by Hemant = $90 - 10 \times 6 = 30 \text{ units}$ So, efficiency of Hemant = $\frac{30}{6} = 5 \text{ units/day}$ \therefore required ratio = $10 : 5 = 2 : 1$ **S31. Ans.(e)****Sol.** ATQ

$$\frac{(X+20000) \times 10 \times 3}{100} + \frac{X \times 15 \times 3}{100} = 36000$$

$$30X + 600000 + 45X = 3600000$$

$$75X = 3000000$$

$$X = 40000$$

S32. Ans.(a)**Sol.** Wrong no. is 1020.

Pattern of the series:

$$3 \times 1 + 2 = 5$$

$$5 \times 2 + 4 = 14$$

$$14 \times 3 + 6 = 48$$

$$48 \times 4 + 8 = 200$$

$$200 \times 5 + 10 = 1010$$

$$1010 \times 6 + 12 = 6072$$

S33. Ans.(b)**Sol.** Wrong no. is 590

Pattern of the series:

$$48 \times 2 - 12 = 84$$

$$84 \times 2 - 12 = 156$$

$$156 \times 2 - 12 = 300$$

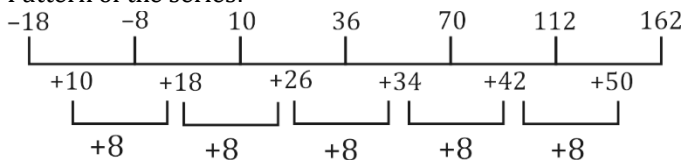
$$300 \times 2 - 12 = 588$$

$$588 \times 2 - 12 = 1164$$

$$1164 \times 2 - 12 = 2316$$

S34. Ans.(e)**Sol.** Wrong no. is 12

Pattern of the series:

**S35. Ans.(c)****Sol.** Total images published by B = $3000 \times \frac{25}{100} \times \frac{2}{5} = 300$ Total videos published by B = $3000 \times \frac{25}{100} \times \frac{(5-2)}{5} = 450$

Total number of posts that are not removed = $300 \times \frac{(100-20)}{100} + 450 \times \frac{(100-40)}{100}$
 $= 240 + 270 = 510$

S36. Ans.(c)

Sol. Total post published by X = $3000 \times \frac{(13+19)}{100} \times \frac{1}{2} = 480$

Total GIF image published by X = $480 \times \frac{1}{8} = 60$

Total videos published by X = $(480 - 60) \times \frac{5}{14} = 150$

Required percentage = $\frac{150}{3000 \times \frac{15}{100}} \times 100 = 33.33\%$

S37. Ans.(d)

Sol. Total videos published by A and D = $3000 \times \frac{(15+28)}{100} \times \frac{40}{100} = 516$

Total videos published by A = $516 \times \frac{5}{12} = 215$

Total posts published by E = $3000 \times \frac{19}{100} = 570$

Required difference = $570 - 215 = 355$

S38. Ans.(d)

Sol. Total posts published by A in 2022 = $3000 \times \frac{15}{100} \times \frac{120}{100} = 540$

Total posts published by D in 2022 = $3000 \times \frac{28}{100} \times \frac{125}{100} = 1050$

Total posts published by all five in 2022 = $(540+1050) \times \frac{100}{30} = 5300$

Required ratio = $3000 : 5300 = 30 : 53$

S39. Ans.(d)

Sol. I. $x^2 + 3x - 40 = 0$

$x^2 + 8x - 5x - 40 = 0$

$x = -8, 5$

II. $y^2 - 11y + 30 = 0$

$y^2 - 5y - 6y + 30 = 0$

$y = 6, 5$

So, $x \leq y$

S40. Ans.(e)

Sol. I. $2x^2 + 7x - 15 = 0$

$2x^2 + 10x - 3x - 15 = 0$

$x = 1.5, -5$

II. $3y^2 + 5y - 12 = 0$

$3y^2 + 9y - 4y - 12 = 0$

$y = \frac{4}{3}, -3$

So, no relation can be established between x and y

S41. Ans.(d)

Sol. Let total mixture in vessel R for both the milkmen have be 'q'

ATQ –

$\frac{0.44q+0.52q}{2} = 960$

$q = \frac{960 \times 2}{0.96}$

$q = 2000$ l

Total mixture in vessel P for both the milkmen = $1.4 \times 2000 = 2800$ l

Required difference = $2800 \times \frac{50}{100} - 2800 \times \frac{40}{100} = 280$ l

S42. Ans.(a)

Sol. Let capacity of vessel P and vessel T be $2x$ and $3x$ respectively

ATQ –

$$\left(3x \times \frac{50}{100} + 3x \times \frac{40}{100}\right) - \left(2x \times \frac{60}{100} + 2x \times \frac{50}{100}\right) = 180$$

$$2.7x - 2.2x = 180$$

$$0.5x = 180$$

$$x = 360$$

Required difference between water in vessel P and T

$$= \left(1080 \times \frac{50}{100} + 1080 \times \frac{60}{100}\right) - \left(720 \times \frac{40}{100} + 720 \times \frac{50}{100}\right)$$

$$= 1188 - 648$$

$$= 540 \text{ liters}$$

S43. Ans.(e)

Sol. Let total capacity of S & T is 'a' & 'b' respectively

We have to find 'a - b'

From a –

$$a \times \frac{72}{100} - b \times \frac{50}{100} = 320$$

$$72a - 50b = 32000$$

From b –

$$a \times \frac{40}{100} - b \times \frac{40}{100} = 200$$

$$0.4a - 0.4b = 200$$

$$a - b = 500 \text{ l}$$

From d –

Let capacity of vessel S & T be $3q$ and $2q$ respectively

ATQ –

$$3q \times \frac{40}{100} - 2q \times \frac{40}{100} = 200$$

$$1.2q - 0.8q = 200$$

$$q = 500 \text{ l}$$

so, either option 'b' or option 'd' can give required answer.

S44. Ans.(c)

Sol. Let CP of article = $100x$ Rs.

So, MP of article = $140x$ Rs.

From (A)

When profit is 22.5%, then selling price of article = $122.5x$ Rs.

$$\text{Discount (d)\%} = \frac{140x - 122.5x}{140x} \times 100 = 12.5\%$$

And, when discount doubled then profit = $140x \times \frac{75}{100} - 100x = \text{Rs. } 5x$

$$\text{Profit \%} = \frac{5x}{100x} \times 100 = 5\%$$

So, option (A) possible to fill the both respective fillers

From (B)

When profit is 33%, then selling price of article = $133x$ Rs.

$$\text{Discount (d)\%} = \frac{140x - 133x}{140x} \times 100 = 5\%$$

And, when discount doubled then profit = $140x \times \frac{90}{100} - 100x = \text{Rs. } 26x$

$$\text{Profit \%} = \frac{26x}{100x} \times 100 = 26\%$$

So, option (B) possible to fill the both respective fillers

From (C)

When profit is 19%, then selling price of article = 119x Rs.

$$\text{Discount (d)\%} = \frac{140x - 119x}{140x} \times 100 = 15\%$$

And, when discount doubled then profit = $140x \times \frac{70}{100} - 100x = \text{Rs. } -2x$

So, option (C) can't fill the both respective fillers, because it gave a loss

From (D)

When profit is 26%, then selling price of article = 126x Rs.

$$\text{Discount (d)\%} = \frac{14x}{140} \times 100 = 10\%$$

And, when discount doubled then profit = $140x \times \frac{80}{100} - 100x = 12x$ Rs.

$$\text{Profit \%} = \frac{12x}{100x} \times 100 = 12\%$$

So, option (D) possible to fill the both respective fillers

From (E)

When profit is 23.2%, then selling price of article = 123.2x Rs.

$$\text{Discount (d)\%} = \frac{140x - 123.2x}{140x} \times 100 = 12\%$$

And, when discount doubled then profit = $140x \times \frac{76}{100} - 100x = \text{Rs. } 6.4x$

$$\text{Profit \%} = \frac{6.4x}{100x} \times 100 = 6.4\%$$

So, option (E) possible to fill the both respective fillers

So, only option A, B, D & E possible to fill both respective fillers

S45. Ans.(e)

Let first number is 'a'

And, second number be 'a + 10'

Given, third number = 'X'

ATQ

$$a + a + 10 + X = 198$$

$$a = 94 - 0.5X$$

$$\text{So, } a + 10 = 104 - 0.5X$$

Let fifth term is 'e'

ATQ

$$198 + 96 + e = 5Y$$

$$e = 5Y - 294$$

Given, average of first and last no. is X

$$\frac{94 - 0.5X + 5Y - 294}{2} = X$$

$$10Y = 5X + 400$$

From option (A)

$$10 \times 50 \neq 72 \times 5 + 400$$

So, option (A) not possible

From option (B)

$$48 \times 10 \neq 64 \times 5 + 400$$

So, option (B) not possible

From option (C)

$$70 \times 10 = 60 \times 5 + 400$$

So, option (C) possible

From option (D)

$$102 \times 10 = 124 \times 5 + 400$$

$$1020 = 620 + 400$$

So, option (D) possible

From option (E)

$$82 \times 10 = 84 \times 5 + 400$$

So, option (E) possible

Only option C, D & E possible to come in the place of (X) and (Y)

Solutions (46-50): Let number of experienced females in Unit A be $5x$ and number of experienced males in Unit B= $3x$
 Let number of beginner females in Unit A be $2z$ then number of beginner males in Unit B= $(z-10)$
 Let number of experienced males in Unit A be k then number of beginner females in Unit B= $3k$
 And let number of experienced females in Unit B be y then number of beginner male in Unit A= $(3y - 5)$

For Unit A:

	Experienced	Beginner
Female	$5x$	$2z$
Male	k	$3y - 5$

For Unit B:

	Experienced	Beginner
Female	y	$3k$
Male	$3x$	$z-10$

ATQ,

$$2z + 3y - 5 = (3x + z - 10) + 30$$

$$\Rightarrow 3y + z - 3x = 25 \quad \dots (i)$$

$$y + 3x = (5x + 2z) - 35$$

$$\Rightarrow 2x - y + 2z = 35 \quad \dots (ii)$$

From (i) and (ii)

$$7y - 8x = 15$$

By substitution method, $(x, y) = (6, 9)$ or $(13, 17)$ or $(20, 25)$ etc.

Then, value for $z = 16$ or 13 or 10 etc.

$$\text{Number of beginner males in Unit B} = (z - 10) \geq 6$$

$$= z \geq 16$$

$$\text{Thus, } (x, y, z) = (6, 9, 16)$$

$$\text{Number of employees in Unit A} = 5x + 2z + (3y - 5) + k = 84 + k < 100$$

$$\Rightarrow 1 \leq k \leq 15$$

$$\text{Number of employees in Unit B} = y + 3k + 3x + (z - 10) \geq 75$$

$$\Rightarrow 33 + 3k \geq 75$$

$$\Rightarrow k \geq 14$$

Thus, $k = 14$ or 15

S46. Ans.(c)

Sol. Number of experienced female employees in Unit A = $5x=30$

S47. Ans.(b)

Sol. Total number of beginner employees in the company= 102 (when $k=14$)

Or, total number of beginner employees in the company =105(when $k=15$)

S48. Ans.(e)

Sol. Number of beginner females in Unit A= $2z=32$

Number of beginner females in Unit B= $3k$ =either 42 or 45

S49. Ans.(a)

Sol. Number of Experienced female (Unit B) = 9

S50. Ans.(e)

Sol. Total number of beginner employees in Unit A=54

Total number of male employees in Unit B=24

$$\text{Required ratio} = \frac{54}{24} = 9:4$$

Solutions (51-55): B submits projects in the month which has even number of days. Two students submit their projects between B and D. There are three possibilities. More than three students submit their projects between D and C.

Months	Case-1	Case-2	Case-3
	Persons	Persons	Persons
January		D	C/
February			C/
March	D		
April		B	B
May			
June	B	C/	
July		C/	D
August	C	C/	

F submits project immediate after A who submits in the month which has odd number of days. H submits project before C but not immediate before. From this condition case-3 will be eliminated. Two students submit project between E and H. Not more than two students submit their project between G and C who does not submit the report before A. From this condition case-2 will be eliminated and the final arrangement is-

Months	Persons
January	A
February	F
March	D
April	H
May	G
June	B
July	E
August	C

S51. Ans.(b)

S52. Ans.(c)

S53. Ans.(d)

S54. Ans.(a)

S55. Ans.(c)

S56. Ans.(b)

Sol. 456 734 856 298 522
856 734 522 456 298

S57. Ans.(b)

Sol. 456 734 856 298 522
Required sum $(9 + 6) = 15$.

S58. Ans.(a)

Sol. 456 734 856 298 522
456 347 568 289 225

S59. Ans.(d)

Sol. 456 734 856 298 522
Required difference $(7-2) = 5$.



S60. Ans.(c)

Sol. 456 734 856 298 522

Both 522 and 456 are divisible by 3.

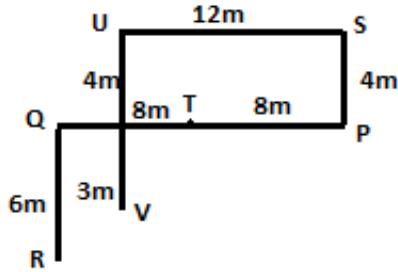
S61. Ans.(b)

Sol. I. $P > V$ (False) II. $M > O$ (True)

S62. Ans.(e)

Sol. I. $R > N$ (True) II. $U \geq P$ (True)

Solutions (63-65):



S63. Ans.(b)

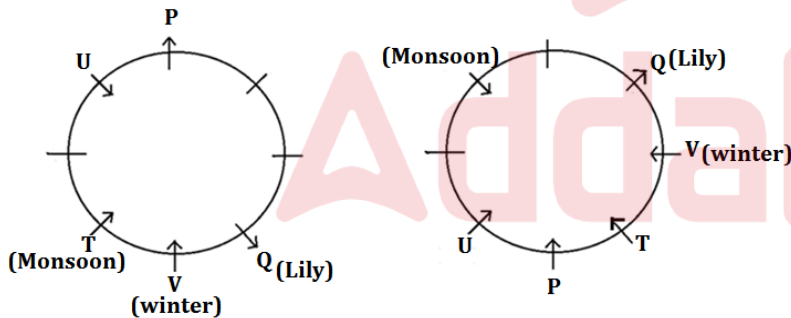
S64. Ans.(c)

S65. Ans.(d)

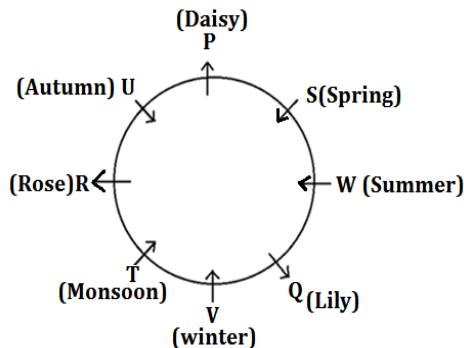
Solutions (66-70): Q sits third to the right of P and likes Lily. There are two possible cases. The one who likes monsoon season sits third to the left of P. U sits third to the left of V who is an immediate neighbour of Q and V likes winter season hence V faces inside the center. T sits second to the right of U. T is an immediate neighbour of V and does not like flower.

Case-1:

Case-2:



The one who likes summer season sits second to the right of the one who likes daisy. Only two persons sit between the one who likes rose and the one who likes spring season. By using these conditions case-2 will be eliminated and in case-1 there is only possibility P likes daisy. R is not an immediate neighbor of P and likes a flower. That means R likes rose. S neither likes summer nor autumn season. Hence U likes autumn season, W likes summer season and S likes spring season. The final arrangement is-



S66. Ans.(a)

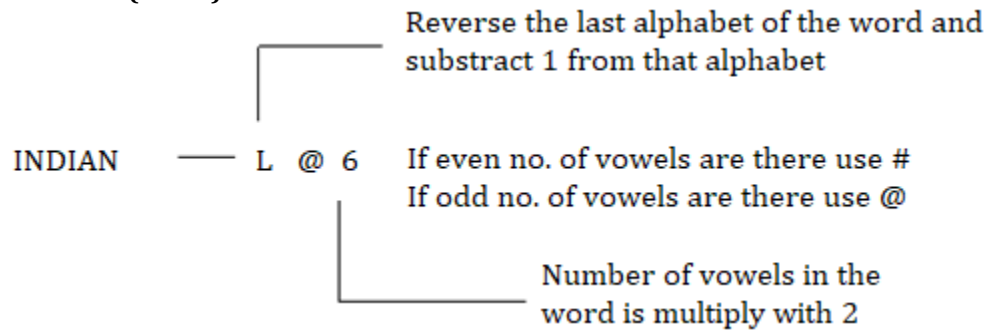
S67. Ans.(d)

S68. Ans.(c)

S69. Ans.(b)

S70. Ans.(d)

Solutions (71-75):



S71. Ans.(c)

S72. Ans.(b)

S73. Ans.(d)

S74. Ans.(c)

S75. Ans.(b)

S76. Ans.(c)

Sol. In a move to harness export potential of millets to the Gulf Cooperation Countries (GCCs), the Agricultural and Processed Food Products Export Development Authority (APEDA) has signed a Memorandum of Understanding (MoU) with Lulu Hypermarket LLC.

- APEDA works under the Ministry of Commerce, Government of India.
- As per the agreement, the Lulu Group will facilitate promotional activities for millet products and enable the country to display millets and its value-added products, ready to eat products in international retail chains by sourcing it from Farmer Producer Organizations, Farmer Producer Companies, women entrepreneurs, and startups.
- As a part of its series of events for the promotion of International Year of Millets (IYoM) 2023, APEDA is organizing export promotion activities for millets in 16 International Trade Fairs, including Gulfood 2023.
- GCC is a regional, intergovernmental, political, and economic union comprising Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates.
- Its Headquarters is located in Riyadh, Sudi Arabia

Therefore, option '(c)' is the correct answer.

S77. Ans.(d)

Sol. Only Statements 1, 3 and 4 are correct.

- The Government has approved the Centrally Sponsored Scheme 'Pradhan Mantri Poshan Shakti Nirman (PM POSHAN)' for providing one hot cooked meal in Government and Government – aided Schools from 2021-22 to 2025-26.
- The Scheme is being implemented by the Ministry of Education.
- The Scheme is implemented across the country covering all the eligible children without any discrimination of gender and social class.
- Earlier, the scheme was known as Mid-Day Meal Scheme.
- Objective of the scheme: (a) to address the problem of hunger and education by improving the nutritional status of eligible children in Government and Government-aided schools, and (b) encourage poor children, belonging to disadvantaged sections, to attend school more regularly and help them concentrate on classroom activities.

S78. Ans.(b)

Sol. Anil Agarwal International Cricket Stadium is being built in Jaipur, Rajasthan.

- In this regard, Vedanta's Hindustan Zinc Limited (HZL) signed an MoU with the Rajasthan Cricket Association for the development of the world's third-largest cricket stadium in the village of Chonp in Jaipur.
- Vedanta's HZL will spend INR 300 crore on the stadium, one of the largest corporate investments in India's sports infrastructure.
- The stadium facilities will be spread across 100 acres and have a seating capacity of over 75,000.
- In terms of the size of the playing field area this stadium would be the largest in the world.

S79. Ans.(b)

Sol. ICICI Bank announced that it has launched a comprehensive digital ecosystem for all Micro, Small and Medium Enterprises (MSMEs) in the country, including customers of other banks.

- The ecosystem has three pillars: i) enhanced banking services for existing customers, ii) a bouquet of banking services to MSMEs, who are customers of other banks, iii) a whole range of value-added services for all.
- Anyone can avail the benefits of ICICI Bank's digital solutions by simply downloading the new version of the InstaBIZ app from Google Play Store or Apple App Store, or at the Bank's Corporate Internet Banking (CIB) platform

S80. Ans.(a)

Sol. March 3 is known as World Wildlife Day (WWD), marked annually to draw attention to issues of conservation of flora and fauna.

- The theme of WWD 2023 is 'Partnerships for Wildlife Conservation'.
- In 2013, the United Nations General Assembly (UNGA) proclaimed March 3 as the UN World Wildlife Day
- The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) was signed in 1973 on this day.
- March 3, 2023 marks the 50th anniversary of CITES' establishment.
- 8th March is celebrated as International Women's Day
- 14th March is observed as Pi Day
- 22nd March is observed as World Water Day
- 27th March is celebrated as World Theatre Day

S81. Ans.(b)

Sol. The Government of India is planning to create ten clean plant centres. These centres will focus on increasing fruit crop production.

- The finance minister Nirmala Sitaraman announced the Atma Nirbhar Clean Plant Program During her budget speech 2023-24.
- Under the programme, the Government of India will focus on increasing fruit production in the country.
- Following this, the union government is planning to create ten clean plant centres based on the model centres in Israel, the Netherlands, and the USA.
- Centres will focus on fruit crops such as walnut, apple, almond, pomegranate, mango, almond, grapes, and others. The govt will invest Rs 2,200 crores in these centres by 2030.

S82. Ans.(a)

Sol. META has launched its new chatbot called LLaMA.

- LLaMA is a large language model developed by META that is similar to ChatGPT.
- The main objective of the model is to assist researchers in the field of AI.
- LLaMA is the third large language model developed by META.
- The first was Glactica, and the second was Blender.
- While LLaMA works almost like ChatGPT, its main objective is to assist researchers in their work.
- LLaMA can fetch information from the research field, making it a valuable tool for researchers.

S83. Ans.(a)

Sol. A savings account is an interest-bearing deposit account held at a bank or other financial institution.

- Though these accounts typically pay a modest interest rate, their safety and reliability make them a great option for parking cash you want available for short-term needs.

S84. Ans.(c)

Sol. India has started 'Operation Kaveri' to evacuate its nationals owing to the Current Crisis in Sudan.

- Around 3,000 Indians are stuck in various parts of Sudan, including capital Khartoum and in distant provinces like Darfur.
- The operation involves the deployment of Indian Navy's INS Sumedha, a stealth offshore patrol vessel, and two Indian Air Force C-130J special operations aircraft on standby in Jeddah.
- Operation Kaveri is an evacuation mission to bring back all the Indian citizens currently stranded in Ukraine. Russia and Ukraine are currently at war. Russian military launched a series of attacks in Ukraine recently.
- During the initial phase of the Covid-19 pandemic, the Centre launched the Vande Bharat Mission to bring back Indian citizens stuck in foreign countries.
- Operation Samudra Setu was a naval operation to bring home Indian citizens from other countries during the Covid-19 pandemic. 3,992 Indian citizens were brought back to their homeland by sea through this mission.

S85. Ans.(a)

Sol. PM Narendra Modi inaugurated Karnataka's rich cultural heritage festival, Barisu Kannada Dindimava, at Talkatora Stadium, New Delhi.

- The initiative is in line with the 'Ek Bharat Shreshtha Bharat' vision of PM Modi, which aims to enhance cultural connection and interaction among the various states/UTs. It envisages promoting this culture in areas of music, traditions, languages, sports, tourism, and cuisine.
- This programme was held under the aegis of the government's initiative, "Azadi ka Amrit Mahotsav," which is to glorify India's cultural history.
- It also provided opportunities for the artists to showcase Karnataka's rich heritage in the forms of poetry, drama, dance, and music.

S86. Ans.(d)

Sol. India's biggest lender by assets, State Bank of India has reintroduced its retail term deposit, Amrit Kalash, which will offer an interest rate of 7.6 percent to senior citizens and 7.1 percent to others.

- It is a special scheme of 400 days tenor.
- The scheme is applicable on domestic retail term deposits including NRI Rupee Term Deposits below Rs 2 crore.

S87. Ans.(e)

Sol. The National Health Mission is India's flagship health sector programme to revitalize rural and urban health sectors by providing flexible finances to State Governments.

- The National Health Mission comprises of 4 components namely the National Rural Health Mission, the National Urban Health Mission, Tertiary Care Programmes and Human Resources for Health and Medical Education.

S88. Ans.(a)

Sol. World Earth Day, also known as International Mother Earth Day, is observed on April 22 every year.

- The first Earth Day was observed in 1970 in the United States and has since evolved as a global event, with millions of people, organisations, and institutions engaging in diverse activities.
- The World Earth Day theme 2023 is "Invest in Our Planet," calling out companies to opt for sustainable practices.
- The theme is in continuation of the successful 2022 campaign.

S89. Ans.(b)

Sol. Organization of the Petroleum Exporting Countries is known as OPEC.

- It is an ongoing intergovernmental entity. It was established at the Baghdad Conference in September 1960 by Kuwait, Venezuela, Iran, and Iraq.
- There are now 13 people on it. The company's main office is in Vienna, Austria.

S90. Ans.(c)

Sol. Indian Railways has set a target of becoming a 'net-zero carbon emitter' by 2030, said Union Railways Minister Ashwini Vaishnaw in a written reply to the Lok Sabha.

- The Railways plans to achieve this ambitious target in two steps: A complete transition to electric trains by December 2023 and powering the trains and stations primarily through non-renewable sources by 2030.

S91. Ans.(c)

Sol. As a part of its commitment towards the women's business, especially in the sports segment in India, Sports brand Puma India has on-boarded Indian women's cricket team captain Harmanpreet Kaur as its new brand ambassador.

- As part of the partnership terms, Harmanpreet will endorse the brand's footwear, apparel and accessories throughout the year.
- With this, Harmanpreet joins PUMA's roster of brand ambassadors that include Virat Kohli, football stars Neymar Jr and Sunil Chhetri, boxer MC Mary Kom, cricketer Harleen Deol and Para-Shooter Avani Lekhara.
- Harmanpreet is India's only women batter who scored century in T20I.
- The 33-year-old batter from Punjab has the record of the fourth fastest women's T20I hundred in the world to her name.

S92. Ans.(b)

Sol. The Governor of the Reserve Bank of India (RBI), Shaktikanta Das, initiated the establishment of a "Greenfield Data Centre" and an "Enterprise Computing & Cybersecurity Training Institute" in Bhubaneswar, Odisha, during a foundation stone laying ceremony.

- The new Data Centre and Training Institute, which will cover an area of 18.55 acres, will be able to address the emerging needs of the RBI and the financial sector, according to a statement by the central bank.
- The Governor stressed the importance of enhancing the RBI's existing computing infrastructure with state-of-the-art facilities for research and capacity building in central banking, technology, and cybersecurity to prepare for the future.

S93. Ans.(e)

Sol. The Indian Institute of Technology (IIT) Bombay has been ranked first in India and 47th globally in Engineering and Technology in the Quacquarelli Symonds (QS) World University Rankings by Subject for 2023.

- The institute scored 80.4 out of 100.
- The institute has been ranked in 4 out of 5 broad subject areas, which include Engineering & Technology, Natural Sciences, Social Sciences and Management, and Arts and Humanities.
- In overall QS World University rankings, IIT Bombay ranks 172nd globally and second in India after the Indian Institute of Science, Bangalore.

S94. Ans.(b)

Sol. The World Bank has approved a USD 363 million loan to Karnataka, to provide a clean drinking water supply to two million rural households in the state through a piped water connection in their homes.

- Nearly 77 per cent of the state is arid or semi-arid and is vulnerable to climate-change-related variable rainfall causing droughts and floods.
- Karnataka Sustainable Rural Water Supply Program will support the Government of Karnataka's ambition to provide functioning tap water connections to every rural household in the state.

S95. Ans.(c)

Sol. Rajasthan created history and becomes the first state to enact the **Right to Health Act (RTH), 2023**.

- The Act is consistent with the Right to Life under Article 21 of the Constitution, which has been interpreted by the Supreme Court as the right to live with dignity.
- So far, India already guarantees its citizens the right to food, education, employment, and information, but no right to health.
- This Act fills a significant void. It will considerably minimise out of pocket expenditure (OoPE) on health, and reduce morbidities and preventable mortalities.

S96. Ans.(e)

Sol. The Investment migration firm Henley & Partners released its annual “World’s Wealthiest Cities Report 2023”.

- The list was again topped by New York City followed by Tokyo, California’s Bay Area (US), London (UK) and Singapore.
- Australian city Sydney is at the 10th spot
- In terms of Indian cities, Mumbai ranked 21st with 59,400 high-net-worth individuals, while Delhi ranked 36, Bengaluru is at 60, Kolkata is at 63, and Hyderabad is at 65.
- Henley & Partners compiled the World’s Wealthiest Cities Report 2023, covering 97 cities worldwide.

S97. Ans.(c)

Sol. In March 2023, banks from 18 countries were allowed by the RBI to open Special Rupee Vostro Accounts (SRVAs) to settle payments in Indian rupees.

- It includes Botswana, Fiji, Germany, Guyana, Israel, Kenya, Malaysia, Mauritius, Myanmar, New Zealand, Oman, Russia, Seychelles, Singapore, Sri Lanka, Tanzania, Uganda, and the United Kingdom.
- SVRAs are bank accounts that allow foreign banks to settle payments in Indian rupees. This is important as it will help boost India’s exports and avoid wartime international sanctions that hamper global trade flows.

S98. Ans.(e)

Sol. Infibeam Avenues Ltd’s brand 'CCAvenue' has become India’s FIRST payment gateway player to process Central Bank Digital Currency (CBDC) or Digital Rupee transactions for online retail merchants.

- The RBI launched the first pilot of the digital rupee for the retail segment on December 1, 2022.
- The retail CBDC pilot has identified 8 banks:
 - 1st Phase: SBI, ICICI Bank, Yes Bank, and IDFC First Bank
 - 2nd Phase: BoB, Union Bank of India, HDFC Bank, and Kotak Mahindra Bank

S99. Ans.(c)

Sol. According to the Global Unicorn Index 2023 by Hurun, India retained third place with 68 unicorns.

- Among these, foodtech platform Swiggy, fantasy gaming company Dream11 and edtech firm BYJU’S are the top unicorns in the country.
- As per the report US has the highest number of unicorns and China has the second highest, respectively.

S100. Ans.(b)

Sol. The Commerce Ministry approved the establishment of the India Centre for Lab-Grown Diamonds (InCent-LGD) at IIT Madras at an estimated cost of Rs 243 crore over the next five years.

- This follows Finance Minister Nirmala Sitharaman's announcement in the Union Budget that the government will encourage the production of lab-grown diamonds in the country via an R&D grant to an IIT for five years and reduction in import duties on raw material.
- It would help promote indigenous manufacturing of both chemical vapour deposition and high-pressure and temperature systems along with the recipes for expanding the LGD business.