

NABARD Grade A Previous Year Paper 2022

Directions (1-4): Study the following information carefully and answer the questions given below:

Nikita, Devesh, Neha, Sudhir, Mehul, Akshat, Pawan and Rishab are eight persons seated around a circular table and are facing the centre but not necessarily in the same order. Each working in different banks' viz. BOB, IOB, Dena Bank, Syndicate, SBI, PNB, RBI and Axis Bank, but not necessarily in the same order.

Nikita sits third to the left of the person who works in SBI. The person who works in Axis Bank sits second to the right of Sudhir. Sudhir is not an immediate neighbour of Nikita. Sudhir does not work in SBI and IOB. Nikita does not work in Axis Bank. Only two people sit between Mehul and Pawan. Neither Mehul nor Pawan is an immediate neighbour of Nikita. Neither Mehul nor Pawan works in SBI. The person who works in BOB sits third to the left of Akshat. The persons who work in BOB and SBI are not immediate neighbours. Only one person sits between Sudhir and the person who works in Dena Bank. The person who works in Syndicate and the person who works in IOB are immediate neighbours. Only one person sits between Devesh and the person who works in PNB. The person who works in PNB is an immediate neighbour of Rishab. Pawan and Devesh are not immediate neighbours. Mehul does not work in IOB.

Q1. Who among the following person is sitting exactly in between the person who works in Dena Bank and Nitika?

- (a) Devesh
- (b) Mehul
- (c) Akshat
- (d) Sudhir
- (e) None of these

Q2. Who among the following works in Axis Bank?

- (a) Mehul
- (b) Akshat
- (c) Devesh
- (d) Rishab
- (e) None of these

Q3. The one who is sitting exactly between Neha and Akshat?

- (a) Pawan
- (b) Devesh
- (c) Both Devesh and Pawan
- (d) Either Devesh and Pawan
- (e) None of these

Q4. Who works in RBI?

- (a) Mehul
 - (b) Akshat
 - (c) Neha
 - (d) Pawan
 - (e) None of these
-

Directions (5-7): In each of the questions below, some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements, disregarding commonly known facts. Give answer

Q5. Statements:

Only bucket are mug.

Only a few bucket are cap.

Some cap are not light.

Conclusions:

I. All Light are cap is a possibility.

II. Some light can be bucket.

III. Some cap are mug.

(a) Only III follows

(b) Only II and III follow

(c) Only I follows

(d) All I, II and III follow

(e) Only I and II follow

Q6. Statement:

Only a few formats are switches.

Only a few switches are splits.

Some splits are styles.

Conclusion:

I. Some styles being formats is a possibility.

II. Some splits are not switches.

III. All switches being styles is a possibility.

(a) Only III follows

(b) Only II and III follow

(c) Only I follows

(d) Only I and III follow

(e) None follows

Q7. Statement:

Some Google are browser.

Only browser are Bing

Only a few browser are Yahoo

Conclusion:

I. Some Yahoo can be Bing

II. No Google is Yahoo

III. All Yahoo are Browser is a possibility

(a) Only II follows

(b) Only II and III follow

(c) Only III follows

(d) Only I and II follow

(e) None follows

Directions (8-9): In each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below is/are definitely true and give your answer accordingly.

Q8. Which of the following symbols should replace the blanks in the given expression in order to make the expression $T > M$ definitely true?

- (a) $L = T \geq Q < O = M$
- (b) $L = T < Q > O = M$
- (c) $L = T > Q \geq O = M$
- (d) $L = T < Q \geq O = M$
- (e) None of these

Q9.

Statements: $B < W \leq F, C \leq W \leq O < U, S > O \leq A < I$

Conclusions: I. $B < A$ II. $U > S$

- (a) If both conclusion I and II are true.
- (b) If only conclusion I is true.
- (c) If neither conclusion I nor II is true.
- (d) If either conclusion I or II is true.
- (e) If only conclusion II is true.

Directions (10-11): Study the following information carefully and answer the questions below:

A is sister of B who is the wife of C. D and E are the daughters of B. F is the son of A and G is the wife of A's only son. H is married to E and K is a daughter of H. I is the sister of J who is the son of G.

Q10. How B is related to F?

- (a) Uncle
- (b) Aunt
- (c) Maternal Uncle
- (d) Mother
- (e) None of these

Q11. How many female members in the family?

- (a) Six
- (b) Four
- (c) Five
- (d) Seven
- (e) None of these

Directions (12-15): Read the following information carefully and answer the questions given below it:

There are eight persons sitting in a row and all were facing South and all of them scored different runs in a cricket match viz. 20, 27, 33, 38, 40, 43, 45 and 50 but not necessarily in the same order. D scored the lowest runs. A is in the middle of the row. B is fifth to the right of C. Two persons sit between D and E who is five places away from F. G scored 43. The sum of runs of G and E is equal to sum of runs scored by D and H. G is third from one of the extreme ends. G scored more runs than A but less than F. C is at one of the extreme ends. Number of persons between E and A are same as number of persons between H and B. A does not sit at any extreme end. The difference between the runs scored by D and B is equal to the difference between the runs scored by E and C.

Q12. How many persons sit to the right of B?

- (a) One
- (b) Four
- (c) Three
- (d) Six
- (e) Two

Q13. What is the sum of runs scored by C and H?

- (a) 77
- (b) 90
- (c) 72
- (d) 73
- (e) 53

Q14. How many persons sit between E and C?

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

Q15. Who among the following scored the highest runs?

- (a) A
- (b) H
- (c) F
- (d) C
- (e) D

Directions (16-20): Read the given information carefully and answer the questions given below:

Eight friends namely G, O, T, L, M, K, A and R were born in different months among January, March, April, July, September and November. Three persons were born in same month. Each of them is from different Cities viz. Kolkata, Patna, Nainital, Agra, Lucknow, Dehradun, Pune and Ranchi. All the above information is not necessarily in the same order.

The one who is from Dehradun was born in the month having less than 31 days. T is from Kolkata. G and M were born in same month. Persons who is from Agra and Patna were born in November. L is from Lucknow and he was born in the month having 31 days but not in March. R is from Ranchi and he was born in April. The one who is from Kolkata was born in the month having 30 days after July but before November. The one who is from Pune was born in month having 31 days before April. K was born in July and he is from Nainital. A is from Pune and M is not from Patna.

Q16. Who among the following was born in the month of November?

- (a) The one who is from Kolkata.
 - (b) The one who is from Lucknow.
 - (c) A
 - (d) L
 - (e) None of these
-

Q17. Who among the following persons was born in the month having 31 days?

- (a) G
- (b) T
- (c) O
- (d) Both G and T
- (e) Both T and O

Q18. Who among the following persons is from Pune?

- (a) G
- (b) M
- (c) O
- (d) Either G or O
- (e) None of these

Q19. Which among the following statements is definitely true?

- (a) O and M were born in the month having 30 days.
- (b) There is a gap of six months between the birth months of R and the one who is from Nainital.
- (c) O and M is from Dehradun and Pune respectively.
- (d) One who is from Patna and the one who is from Kolkata were born in same month.
- (e) None is true

Q20. Which among the following combinations is/are true?

- I. M and the one who is from Pune were born in the month having 31 days.
- II. One who is from Pune was born in January.
- III. A is from Dehradun.

- (a) Only I
- (b) Only III
- (c) Only II and III
- (d) Only I and II
- (e) All I, II and III

Directions (21-26): Read the passage and answer the questions that follow.

The government has recently rolled out a national strategy for artificial intelligence (AI) and identified five sectors (health care, agriculture, education, infrastructure and transportation) for its adoption. AI, in layman's terms, is 'prediction' using algorithms and data. When a machine uses intelligence to learn from the past data, it mimics 'human-like' ability. Hence the term 'artificial intelligence'. The fundamental principle behind AI has existed for many decades. What has now changed is our capability to rapidly acquire or generate a large amount of data and use it to derive meaningful conclusions using powerful computers.

Success in developing tools and applications based on AI, however, will depend on how well we understand the underlying data and the processes that we put in place towards data generation, annotation, quality control, storage, security, sharing and mining.

How can AI make a real and visible difference to the Indian health-care system and its farmers? Currently, there is no connection between hospital systems around the country and the underlying data on patient health records, diagnosis, and treatment outcome.

Additionally, our health-care system is primarily based on providing reactive treatment rather than preventive care. A nation-wide uniform and centralised data-deposition system is a good first step. This can be incorporated under the recently announced National Health Policy, 2017 and has the potential to significantly change patient diagnosis and treatment, and aid in preventive health management. For example, using mobile phones with a camera, patients in villages can send their eye images to ophthalmologists who can confirm the diagnosis and recommend, if required, immediate clinical intervention.

There are two instances that farmers can significantly gain from using AI. First, in predicting weather successfully and, therefore guidance, in what to grow and what price they can expect. Additionally, such tools can help farmers monitor soil health, mine historical weather data including satellite imagery, predict the price of agricultural products and maintain supply-chain efficiency. Successful development of AI-based applications in both health care and agriculture requires not just in taking care of the underlying data but also in integrating knowledge and innovation from other areas of biotechnology. For example, an AI-based integrated system with data from a large number of patients' genomes along with patient history and disease epidemiology can accurately predict clinical outcomes, like metastasis in cancer patients.

As much as it is one of the crucial technologies for the future, AI must not come at the cost of the privacy of our citizens. The government must put in place proper checks and balances against its misuse through legally _____ and long-term policy guidelines, and a regulatory framework. By making national data centres for sensitive human data with a robust policy on data collection, use, inference, privacy, release and security, AI-based tools can enhance, rather than hinder, the growth and access to technology related to patient data and prevent misuse of personal data by private individuals, government and corporations.

Q21. In the passage, it is mentioned that the basic principle behind AI is not new to us. So, the recent changes are in terms of what factors?

- (i) AI can now perform like a human being, by remembering past experiences.
 - (ii) AI can now process large amount of data, that was obtained or produced, using advanced computers.
 - (iii) AI can now detect loopholes in the structure of various sectors.
 - (iv) AI can now word independently, without human intervention.
- (a) Only ii
 - (b) i, ii and iii
 - (c) ii and iv
 - (d) i and iii
 - (e) All are correct

Q22. According to the passage, how can AI make a difference to the Indian health-care system?

- (a) By focusing on reactive treatment rather than preventive care.
- (b) By changing the diagnosis and treatment method, with the help of a uniform and centralised data deposition system.
- (c) By introducing the National Health Policy, which gives importance to reactive treatment.
- (d) By improving the technology and connectivity in rural areas and giving them technical education.
- (e) By enhancing the knowledge of doctors on the latest technological developments.

Q23. How can AI help farmers to a great extent?

- (i) Predicting weather and suggesting them what crops they could grow to gain profit.
 - (ii) Obtaining past weather records.
 - (iii) Helping them with procuring a good price for their produce.
 - (iv) Finding them proper irrigation channels to help them cultivate their crops.
- (a) i, ii and iii
 - (b) Only iv
 - (c) ii and iv
 - (d) i, iii and iv
 - (e) All are correct.
-

Q24. Which of the following statements are correct, according to the passage?

- (i) Using algorithms and data, AI makes completely accurate judgements about the information that it has collected.
 - (ii) The storage of data, its protection, sharing of the collected data, etc. are important factors that contribute to the triumph in developing tools and applications based on AI.
 - (iii) If we consider agriculture and healthcare sectors, it is important to blend knowledge and remodel the data collected from areas of biotechnology, apart from mining data.
 - (iv) AI-based tools, especially that concentrates on sensitive human data, can be easily driven to success, with the existing resources provided by our country.
- (a) Only i
 - (b) Both ii and iii
 - (c) i, iii and iv
 - (d) Both i and iv
 - (e) All are correct

Q25. Fill in blank in the passage with the most appropriate word.

The government must put in place proper checks and balances against its misuse through legally _____ and long-term policy guidelines, and a regulatory framework.

- (a) encroaching
- (b) emboldened
- (c) enactment
- (d) enslaved
- (e) enforceable

Q26. Which of the following is a synonym of the word 'underlying'?

- (a) cardinal
- (b) suppressing
- (c) demoted
- (d) protective
- (e) exotic

Directions (27-29): In each of the following questions, a phrase has been used in sentences in THREE different ways. Choose the option corresponding to the sentences in which the usage of the phrase is CORRECT or APPROPRIATE.

Q27. Lay off

- I. The doctor advised the patient to lay off for a month after the operation.
 - II. Many women still take career breaks to lay off their families.
 - III. In recent months the car industry has laid off thousands of workers and put many more on short time.
- (a) Only III
 - (b) Both II and III
 - (c) Both I and II
 - (d) Both I and III
 - (e) I, II and III
-

Q28. Under the weather

- I. At the party last night, everyone was under the weather and enjoyed to the fullest.
II. In summer, the area seems under the weather, with birds singing, flowers blooming and trees reflected in the beautiful water of the lake.
III. He seemed a little under the weather yesterday when he left, so he might not come to office today.
- (a) Only I
(b) Both II and III
(c) Both I and II
(d) Only III
(e) All are correct

Q29. Come up with

- I. We racked our brains but we couldn't come up with a solution.
II. The building was come up with when the defective boiler exploded.
III. The police made a few routine inquiries, came up with nothing, and then suggested that she hire a private detective.
- (a) Only I
(b) Both II and III
(c) Both I and III
(d) Only III
(e) All are correct

Directions (30-34): In each of the questions given below five words are given in bold. These five words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should interchange with each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other. If the sentence is correct as it is, then select option (e) as your choice.

Q30. The (1) **academician** did a (2) **commendable** job in (3) **highlighting** the (4) **dangers** of the so-called lethal weapon (5) **systems**.

- (a) 1 and 5
(b) 2 and 3
(c) 2 and 5
(d) 1 - 4 and 2 - 5
(e) No interchange required

Q31. Skills are a/an (1) **asset** (2) **vital** in today's globalised economy where (3) **threat** jobs are under (4) **unskilled** of (5) **automation**.

- (a) 1 - 5
(b) 2 - 3
(c) 1 - 2 and 3 - 4
(d) 2 - 5
(e) No interchange required
-

Q32. (1) **corruption** employees (2) **facing** criminal or (3) **government** cases are under a (4) **scanner** of the Modi (5) **administration**.

- (a) 4 - 5
- (b) 1 - 3
- (c) 1 - 2 and 3 and 4
- (d) 2 - 5
- (e) No interchange required

Q33. If the (1) **obliged** are (2) **alternative**, the (3) **authorities** are (4) **flights** to provide compensation or an (5) **cancelled**.

- (a) 1 - 5
- (b) 2 - 3
- (c) 2 - 5
- (d) 1 - 4 and 2 - 5
- (e) No interchange required

Q34. The revenue (1) **department** has asked customs (2) **officials** to ensure strict (3) **implementation** of (4) **import** on (5) **prohibition** of e-cigarettes.

- (a) 1 - 5
- (b) 4 - 5
- (c) 2 - 5
- (d) 1 - 4 and 2 - 5
- (e) No interchange required

Directions (35-39): Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark 'No error' as your answer (Ignore the errors of punctuation, if any).

Q35. Nobody get (A)/to the point that (B)/they can't use (C)/more money (D).

- (a) Nobody get
- (b) to the point that
- (c) they can't use
- (d) more money
- (e) No error

Q36. The group (A)/have been (B)/notoriously fickle (C)/in the past (D).

- (a) The group
- (b) have been
- (c) notoriously fickle
- (d) in the past
- (e) No error

Q37. At least one-third (A)/of all women (B)/over ninety has (C)/sustained a hip fracture (D).

- (a) At least one-third
 - (b) of all women
 - (c) over ninety has
 - (d) sustained a hip fracture
 - (e) No error
-

Q38. Neither of my parents (A)/is currently (B)/in paid employment, (C)/because of the pandemic (D).

- (a) Neither of my parents
- (b) is currently
- (c) in paid employment
- (d) because of the pandemic
- (e) No error

Q39. The fall in (A)/the number of deaths from heart disease (B)/are generally attributed to (C)/improvements in diet (D).

- (a) The fall in
- (b) the number of deaths from heart disease
- (c) are generally attributed to
- (d) improvements in diet
- (e) No error

Directions (40-42): Read the following parts of a sentence properly and pick the odd one out which is not really going with theme of the other parts and rearrange the remaining parts in a meaningful sentence and mark the correct sequence as your answer. If all the given parts form a meaningful sentence, then choose option (e).

Q40. on a batch of contempt petitions (A) / the Reserve Bank of India has been given (B) / to stop being in contempt of the court's clear (C) / a last opportunity by the Supreme Court (D) / and unambiguous order of December 2015 (E).

- (a) BADC
- (b) CADB
- (c) BDCE
- (d) DACB
- (e) DECB

Q41. architect Vikas Dilawari on April 19, which (A) / the restoration of the building began (B) / has been working with the (C) / in November 2017 and was completed by conservation (D) / also marked the eve of Shab-e-Baraat (E).

- (a) BADC
- (b) CADB
- (c) BDEA
- (d) DAEB
- (e) BDAE

Q42. what is now Uttam Nagar, near which he built (A) / there was a time when Shah Jahan could hunt up to (B) / there's not much of a jungle left in Delhi now but (C) / whether Shah Jahan had any such (D) / his Hashtal Minar and elephant house. (E).

- (a) DEBC
 - (b) CADB
 - (c) ABDC
 - (d) CBAE
 - (e) BADC
-

Directions (43-45): In the following questions, each sentence has two blanks. Choose the appropriate set of words for the blanks that best fits in the context of the sentence.

Q43. Only by taking poll promises _____ at their face value can such discussion be _____ with.

- (a) Serious, done
- (b) Surprisingly, restored
- (c) Mockingly, done
- (d) Adamantly, dispensed
- (e) None of these

Q44. A _____ by the ministry of statistics and programme implementation highlights the _____ pace of project implementation in the country.

- (a) Research, less
- (b) Report, tardy
- (c) Report, higher
- (d) Observation, slow
- (e) None of these

Q45. The adverse impacts of poor air quality are _____ and it is time to act for a long term _____ to this problem.

- (a) Irrefutable, solution
- (b) Manageable, discussion
- (c) Consolable, observation
- (d) Immediate, research
- (e) None of these

Directions (46-50): In each question below, a sentence is given with a part of it printed in bold type. That part may contain a grammatical error. Each sentence is followed by phrases (a), (b), (c) and (d). Find out which phrase should replace the phrase given in bold to correct the error, if there is any, and to make the sentence grammatically meaningful and correct. If the sentence is correct as it is, mark (e) 'No correction required' as the answer.

Q46. A cub **not even a month older** is stolen from its mother by the poacher.

- (a) barely a month older
- (b) hardly one month aged
- (c) barely a month old
- (d) scarcely a month old
- (e) No correction required

Q47. The children enrolled in low fee charging private schools are seen to perform better in mathematics, **despite of better-qualified and more experienced** teachers being available in government schools.

- (a) despite better-qualified and more experienced
 - (b) in spite better-qualified and experienced
 - (c) in spite of best-qualified and experienced
 - (d) despite of better-qualifying and experienced
 - (e) No correction required
-

Q48. Benchmarks and regulatory mechanisms **needing development and implemented** for quality assurance in both government and private schools.

- (a) need to be developed and implemented
- (b) need to develop and implemented
- (c) needing development and be implemented
- (d) need be developed and implementation
- (e) No correction required

Q49. We wanted to promote formally trained artistes, upcoming designers as well as student entrepreneurs who are educated but do not get platforms **to show his talent**.

- (a) to showing their talent
- (b) to showcase their talent
- (c) to display their talent
- (d) to broadcast their talent
- (e) No correction required

Q50. Our idea was to give a chance to young entrepreneurs, especially women, **to exhibit their skills and products** at a prestigious venue like.

- (a) for exhibition of their skill and product
- (b) to exhibit their skills and products
- (c) to exhibition their skills and product
- (d) for exhibiting their skills and products
- (e) No correction required

Q51. Margin that is added to the binding side of the page when printing?

- (a) Gutter Margin
- (b) End Margin
- (c) Headline Margin
- (d) Middle Margin
- (e) None of the above

Q52. What is the shortcut key for highlighting the text in Excel?

- (a) Ctrl + Shift + P
- (b) Ctrl + Shift + Q
- (c) Ctrl + Shift + R
- (d) Ctrl + Shift + S
- (e) None of the above

Q53. Cache Memory is a very strong memory, it is a type of memory?

- (a) RAM
 - (b) ROM
 - (c) Permanent Memory
 - (d) PROM
 - (e) None of the above
-

Q54. Which of the following options is not related to MS Office?

- (a) Access
- (b) Table
- (c) Form
- (d) Relationship
- (e) None of the above

Q55. Ethernet uses which of the following topologies?

- (a) Bus topology
- (b) Ring topology
- (c) Star topology
- (d) Tree topology
- (e) None of the above

Q56. The shortcut control + semicolon is used to enter which of the following in Excel?

- (a) Current Memory
- (b) Current Time
- (c) Current Location
- (d) Current Date
- (e) None of the above

Q57. Which document view is given an appearance as in a web browser?

- (a) Draft view
- (b) Outline view
- (c) Web layout view
- (d) Full screen reading
- (e) None of these

Q58. 1000 in binary numbers is used for which number?

- (a) 1100100
- (b) 110110
- (c) 101010
- (d) 100010
- (e) None of the above

Q59. What is the overall term for creating, editing, formatting, storing, retrieving and printing a text document?

- (a) Word processing
 - (b) Spreadsheet design
 - (c) Web design
 - (d) Database management
 - (e) Presentation generation
-

Q60. A feature of MS Office that saves the document automatically after certain interval is called:

- (a) Save
- (b) Save As
- (c) Auto Save
- (d) Backup
- (e) None of the above

Q61. Which feature is used to make selected sentences to All Capital Letters or All Small Letters?

- (a) Change Letter
- (b) Change Sentence
- (c) Change Case
- (d) Change Word
- (e) None of the above

Q62. Which one is the most suitable reason to use Macro in MS Office (Word, Excel, PPT, etc.,)?

- (a) To Record Sound
- (b) To automate repetitive tasks
- (c) To Record Mouse Move
- (d) To Record Keystroke
- (e) None of the above

Q63. What does dpi in printing means?

- (a) Dots per inch refers to the resolution of the output image or simply the resolution of the printer.
- (b) Disc per inch refers to the resolution of the output image or simply the resolution of the printer.
- (c) Dots per inch refers to the resolution of the Input image or simply the resolution of the printer.
- (d) Disc per inch refers to the resolution of the output image or simply the resolution of the scanner.
- (e) None of the above

Q64. Ctrl+N is used to execute which task in MS-WORD?

- (a) Create a new doc file
- (b) Create a new text file
- (c) Create a new paragraph
- (d) Create and open a new doc file
- (e) None of the above

Q65. Which of the symbol appear in MS-Excel that says results are too long to fit in a cell?

- (a) \$\$\$\$
- (b) ####
- (c) ^^^^
- (d) ****
- (e) @@@@

Q66. Which of the following statement is false for hyperlinks in MS-Word?

- (a) Hyperlinks are represented by BOLD & ITALICS
 - (b) Hyperlinks when clicked get you to a different resource
 - (c) hyperlinks are links that are used to dynamically link the content with the file.
 - (d) both 1 and 2 are true
 - (e) None of the above
-

Q67. A virus that fools the user into the downloading and or executing them by pretending to be useful application is called as?

- (a) Malware
- (b) Trojan Horse
- (c) Spyware
- (d) Man in middle
- (e) None of the above

Q68. You can copy cell formats from one cell to another by using the.

- (a) COPY AND PASTE operation
- (b) Default font
- (c) Format painter
- (d) Formatting toolbar
- (e) None of these

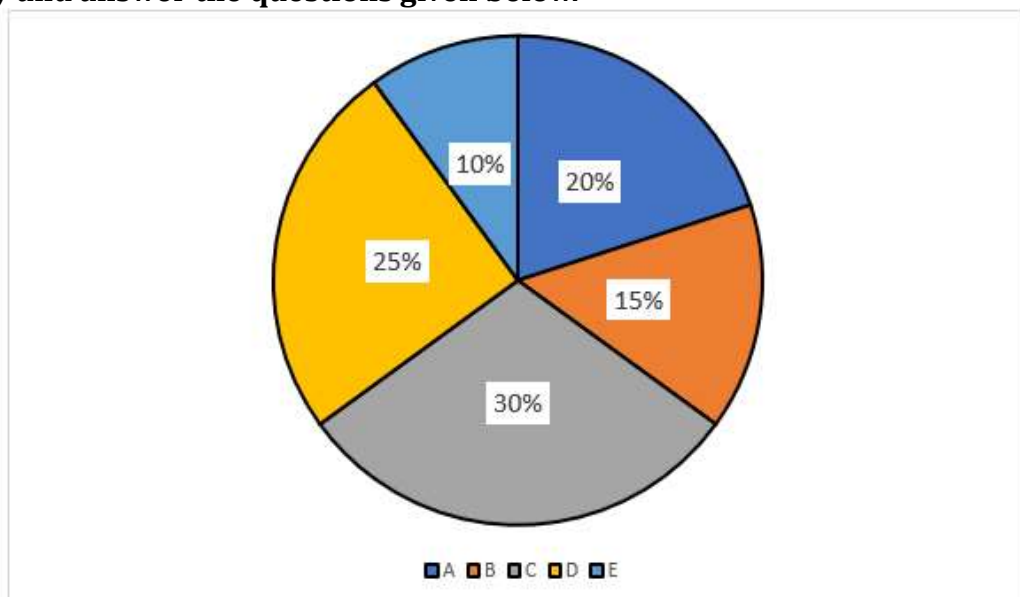
Q69. FORTRAN is abbreviated as?

- (a) Formula Translation
- (b) Final Transmission
- (c) Formula Transmission
- (d) Final Translation
- (e) Any of 1 or 3

Q70. A particular set of instructions which tells the computer what are the tasks to be carried out and how they are to be done is known as

- (a) Software
- (b) program
- (c) hardware
- (d) Both 1 and 3
- (e) None of the above

Directions (71-75): The given pie chart shows the percentage distribution of total number of students in five different sections (A, B, C, D and E) in a school having 400 students. Read the pie chart carefully and answer the questions given below.



Q71. If ratio of girls and boys in section D is 1:4, then find the number of boys in section D.

- (a) 80
- (b) 30
- (c) 50
- (d) 60
- (e) 70

Q72. What is the average number of students in section B, D and A together.

- (a) 100
- (b) 80
- (c) 130
- (d) 140
- (e) 12

Q73. If in section F, total number of boys are $\frac{1}{4}$ th of the number of students in section A and the number of girls in section F are $\frac{1}{5}$ th of the total number of students in section B, then find the total number of students in section F.

- (a) 30
- (b) 60
- (c) 32
- (d) 70
- (e) 40

Q74. Total number of students in section A is how much more/less percent than the students in section E.

- (a) 140% less
- (b) 140% more
- (c) 100% more
- (d) 100% less
- (e) 150% more

Q75. If total students in all the section together is 600, then find the change in average of A, C and E.

- (a) 10
- (b) 40
- (c) 28
- (d) 50
- (e) 30

Directions (76-78): What will come in place of the question mark (?) in the following number series.

Q76. 61, 70, 81, 94, 109, ?

- (a) 122
 - (b) 115
 - (c) 130
 - (d) 126
 - (e) None of these
-

Q77. 23, 28, 38, 53, 73, ?

- (a) 98
- (b) 91
- (c) 96
- (d) 97
- (e) None of these

Q78. 95, 195, 259, 295, ?, 315

- (a) 311
- (b) 301
- (c) 312
- (d) 300
- (e) None of these

Q79. A right circular cylinder having total surface area of 44352 cm^2 is immersed in a vessel completely filled with water. If the height of the cylinder is 25% more than its radius, then what is the amount of water is displaced?

- (a) 291060 cm^3
- (b) 689920 cm^3
- (c) 37837.8 cm^3
- (d) 161700 cm^3
- (e) 10348.8 cm^3

Q80. Cost price of a bag is Rs.750 and the shopkeeper marked it 80% above the cost price and sold it after giving a discount of 20% on marked price. If the shopkeeper had sold it at a profit of 50%, then find the difference between original and new selling price of a bag.

- (a) Rs.45
- (b) Rs.33
- (c) Rs.24
- (d) Rs.26
- (e) None of these

Q81. P spends 22% of his salary on transportation, 36% on food, 15% on children's education and 21% on medical. He deposits the remaining amount in bank which is equal to Rs. 420. How much total amount does he spend on transportation and food together?

- (a) Rs. 3850
- (b) Rs. 4060
- (c) Rs. 3264
- (d) Rs. 4800
- (e) None of these

Q82. The ratio of males and females who went to a zoo is 3:5 respectively and the percentage of children among males and the percentage of children among females are 15% and 20% respectively. If the number of adult females who went to the zoo is 5796, then find how many people went to the zoo.

- (a) 14440
 - (b) 11592
 - (c) 13040
 - (d) 12700
 - (e) None of these
-

Directions (83-85): In the following questions, two equations numbered (I) and (II) are given. You have to solve both the equations and give answer accordingly.

Q83.

I. $2y^2 - 19y + 35 = 0$

II. $4x^2 - 16x + 15 = 0$

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or the relationship cannot be established

Q84.

I. $12y^2 + 11y - 15 = 0$

II. $8x^2 - 6x - 5 = 0$

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or the relationship cannot be established

Q85.

I. $8x^2 + 2x - 3 = 0$

II. $6y^2 + 11y + 4 = 0$

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established

Q86. 'A' and 'B' started a business by investing Rs. 5000 and Rs. 6500, respectively. 12 months later, 'C' joined the business by investing Rs. 8000. After 6 more months, 'B' withdrew all of his capital. If at the end of two year, the total profit earned by them together is Rs. 22200, then find the profit earned by 'B' and 'C' together at end of two years.

- (a) Rs.16050
- (b) Rs. 17740
- (c) Rs. 14200
- (d) Rs. 16000
- (e) None of these

Q87. A and B individually can complete the work in 30 days and 45 days respectively. If the time taken by C alone to complete the work is 1.5 times the time taken by A and B together to complete the work, find the time taken by C to complete the work while working alone.

- (a) 21 days
 - (b) 27 days
 - (c) 15 days
 - (d) 24 days
 - (e) 12 days
-

Q88. Anil borrowed Rs.18000 on CI at the rate of 40% for three years. He paid at the end of first year $\frac{1}{8}$ th of amount and at the end of second year he paid $\frac{1}{6}$ th of amount. How much amount Anil have to pay at the end of third year to complete his debt?

- (a) Rs.20160
- (b) Rs.17640
- (c) Rs.36015
- (d) Rs.12474
- (e) None of these

Q89. The speed of 'A' and 'B' is 90 km/hr and 45 km/hr, respectively. If the distance covered by 'A' in 'x' hours is 360 km more than that by 'B' in the same time, then find the value of 'x'.

- (a) 8 hours
- (b) 9 hours
- (c) 10 hours
- (d) 12 hours
- (e) None of these

Q90. A man can row a boat at 4 kmph in still water. If the velocity of current is 3 kmph and it takes him 8 hours to row the boat at a place and come back to initial point, then how far is that place?

- (a) 5 km
- (b) 7 km
- (c) 8 km
- (d) 12 km
- (e) 3 km

Q91. Which of the following techniques of decision-making involves a process for arriving at an evaluation of decisions, in which selected individuals are asked to respond individually to key questions about a problem, then are provided with a summary of the responses, all members have given and invited to respond again?

- (a) delphi technique
- (b) brainstorming
- (c) nominal group technique
- (d) bounded rationality
- (e) Multi-voting

Q92. Which type of a decision would it be when an employee in a company is working out a schedule to ensure that all the sales staff arrive at the company conference on time?

- (a) Programmed decisions
- (b) Non-programmed decisions
- (c) Strategic decisions
- (d) Personal decision
- (e) Major decision

Q93. What type of bias relies too heavily on one piece of information in making a final decision?

- (a) Confirmation
 - (b) Validation
 - (c) Escalation of Commitment
 - (d) Anchoring
 - (e) Hindsight
-

Q94. A manager's freedom to make totally rational decisions is restricted by internal and external environmental factors and by the manager's own characteristics and decision-making ability. This concept is known as _____

- (a) Behavioural rationality
- (b) Objective Rationality
- (c) Bounded rationality
- (d) Limited rationality
- (e) Subjective Rationality

Q95. A decision is said to be rational when it is based on _____

- (a) Gut feeling
- (b) Reasoning
- (c) Bias
- (d) Emotions
- (e) None of the above

Q96. The propensity of a decision maker to be influenced by the manner in which the information is presented to him/her is known as _____

- (a) Commitment bias
- (b) Confirmation bias
- (c) Hindsight bias
- (d) Framing bias
- (e) Anchoring bias

Q97. Discussing a problem face-to-face with an open mind by a group of selected persons is known as _____

- (a) Delphi
- (b) Multi-voting
- (c) Didactic
- (d) Brainstorming
- (e) Decision tree

Q98. _____ emerges when decision makers have limits on their ability to assimilate large amounts of information.

- (a) Intuitive Rationality
 - (b) Irrationality
 - (c) Limited rationality
 - (d) Bounded rationality
 - (e) Rounded rationality
-

Q99. A manager who uses anchoring bias to make decisions is guilty of doing which of the following?

- (a) The manager falsely believes that he predicted the result of a decision after knowing the outcome
- (b) The manager depends too greatly on one piece of information
- (c) The manager is not fair and balanced
- (d) The manager is overconfident because of past successes
- (e) None of the above

Q100. Manish is going on a vacation and needs to book a hotel. He shortlists 3 hotels and is now comparing them on the basis of cost, facilities available, and proximity to tourist sites. Which step of decision-making is Manish performing?

- (a) Generating the alternatives
- (b) Defining the selection criteria
- (c) Evaluating the alternatives
- (d) Reviewing the decision
- (e) Removing biases

Q101. Recently Dmitry Muratov recently won the Nobel prize under which category?

- (a) Physics
- (b) Chemistry
- (c) Peace
- (d) Medicine
- (e) Literature

Q102. What is the name of the third passenger train between India and Bangladesh that started recently as A Part of the 'Neighbourhood First' Policy?

- (a) Mitali Express
- (b) Maitri Express
- (c) Bandhan Express
- (d) Vivek Express
- (e) None of the above

Q103. International literacy day is celebrated on which day?

- (a) 22 June
- (b) 6 July
- (c) 8 September
- (d) 16 January
- (e) 30 March

Q104. Who among the following is known as the Warren Buffet of India?

- (a) Rakesh Jhunjhunwala
 - (b) Mukesh Ambani
 - (c) Gautam Adani
 - (d) Aditya Birla
 - (e) None of the above
-

Q105. "Soul Curry For You and Me" is a book written by which of the following Indian Actors?

- (a) Anupam Kher
- (b) Amitabh Bachchan
- (c) Monoj Tripathi
- (d) Akshay Kumar
- (e) Madhuri Dixit

Q106. Which of the following channels is between India and Maldives?

- (a) 10
- (b) 9
- (c) 8
- (d) 6
- (e) 7

Q107. Which of the following is being developed as the first elevated urban expressway in India, and will be operational in 2023?

- (a) Bundelkhand Expressway
- (b) Ganga Expressway
- (c) Bangalore-Chennai
- (d) Dwarka Expressway
- (e) None of the above

Q108. What percent of the earth's surface is covered by the Atlantic Ocean?

- (a) 20%
- (b) 15%
- (c) 30%
- (d) 5%
- (e) 12%

Q109. Recently in the Commonwealth Games 2022, Mirabai Chanu won India's first-ever gold medal in which category of women's weightlifting category?

- (a) 59 Kg
- (b) 49 Kg
- (c) 60 Kg
- (d) 65 Kg
- (e) None of the above

Q110. Ahmedabad and Which Indian state recently found a place in the world's 50 greatest places of 2022 by TIME Magazine?

- (a) Madhya Pradesh
 - (b) Maharashtra
 - (c) Kerala
 - (d) Gujarat
 - (e) Uttarakhand
-

Q111. Recently Prasar Bharati launched its new logo. Which one of the following components is signified by the central circle and map of India used in the logo?

- (a) Freedom
- (b) Perfection
- (c) Inspiration
- (d) Wisdom
- (e) Sincerity

Q112. Which agency recently released the first full-colour image of deep space, the image of galaxy cluster SMACS 0723, captured by the James Webb Space Telescope?

- (a) European Space Agency
- (b) NASA
- (c) CNSA
- (d) JAXA
- (e) None of the above

Q113. Which of the following countries has the House of Lords in its Parliament?

- (a) USA
- (b) UK
- (c) Japan
- (d) Australia
- (e) Canada

Q114. Recently Vembannur Wetland Complex was declared as the Ramsar site. It is located in which State?

- (a) Odisha
- (b) Tamil Nadu
- (c) Madhya Pradesh
- (d) Maharashtra
- (e) None of the above

Q115. What was the Rank of India in the Global Hunger Index 2021?

- (a) 101
- (b) 116
- (c) 105
- (d) 108
- (e) 100

Q116. Which of the following countries has recently been approved to replace Russia in the United Nations Security Council?

- (a) Poland
 - (b) Finland
 - (c) Sweden
 - (d) Czech Republic
 - (e) None of the above
-

Q117. Indian Navy's stealth frigate INS Tarkash, visited Djibouti as part of her long-range overseas deployment followed by a Maritime Partnership Exercise with which country?

- (a) Somalia
- (b) Sudan
- (c) Kenya
- (d) Mozambique
- (e) Madagascar

Q118. Which country recently launched its first moon mission, Danuri?

- (a) Sudan
- (b) South Sudan
- (c) South Korea
- (d) Algeria
- (e) None of the above

Q119. Lok Sabha recently passed Central Universities (Amendment) Bill 2022 for conversion of the National Rail and Transportation Institute (NRTI), a Deemed to be University into Which Central University?

- (a) Gati Shakti Vishwavidyalaya
- (b) University of Allahabad
- (c) Visva Bharati University
- (d) Sikkim University
- (e) None of the above

Q120. Bharat Bill Payment System (BBPS) is an integrated bill payment system in India offering interoperable and accessible bill payment services to customers. Which among the following functions as the authorised Bharat Bill Payment Central Unit (BBPCU)?

- (a) NPCI
- (b) Financial Inclusion and Development Department
- (c) UPI
- (d) RUPAY
- (e) None of the above

Q121. Which of the following government schemes is implemented through the Life Insurance Corporation?

- (a) PM Ujjwala Yojna
- (b) PM Jan Dhan Yojna
- (c) PM Shram Yogi Maan-dhan (PM-SYM)
- (d) PM Ayushman Yojna
- (e) None of the above

Q122. PM Suraksha Bima Yojana is an affordable insurance scheme for the poor and underprivileged people in the age group of?

- (a) 20 to 45
 - (b) 18 to 60
 - (c) 18 to 70
 - (d) 25 to 75
 - (e) 30 to 60
-

Q123. PM Matru Vandana Yojana is a maternity benefit programme implemented on 1st January, 2017, which of the following article is related to maternity benefit relief in Indian Constitution?

- (a) Article 40
- (b) Article 41
- (c) Article 42
- (d) Article 43
- (e) Article 45

Q124. Which of the following is not related to the Aspirational district program?

- I. Education
- II. Health and nutrition
- III. Agriculture and water resources
- IV. Skill development
- V. Shelter and housing

Select the correct code given below

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

Q125. Which of the following statement is not correct regarding Socio-Economic and Caste Census (SECC)?

- (a) It was the first paperless census in India
- (b) Conducted on handheld electronic devices
- (c) It was the first-ever caste-based census since 1931
- (d) Data was collected on manual scavenging and Transgender count in India
- (e) The results of SECC 2011 were released in 2017

Q126. According to government data, India has become defecation free, but according to recent data how much percentage of households in rural area are still deprived of toilets?

- (a) 0.5 %
- (b) 0.6%
- (c) 0.7%
- (d) 0.8%
- (e) 1.2%

Q127. As per the date of Central Statistics Office, the Share of MSME Gross Value Added (GVA) in All India Gross Domestic Product at current prices (2011-12) for the year 2019-20 were?

- (a) 30%
 - (b) 40%
 - (c) 50%
 - (d) 55%
 - (e) 60%
-

Q128. Coir scheme is related to?

- (a) Insurance
- (b) Power
- (c) Legal
- (d) Credit Link
- (e) None of the above

Q129. Rural roads account for about more than ____ percent of share to total road network in the country?

- (a) 50%
- (b) 70%
- (c) 80%
- (d) 65%
- (e) 74%

Q130. Which of the following statement/statements is/are correct with respect to Natioan apprenticeship Training Scheme?

- (a) It is the flagship programme of the Ministry of Education.
- (b) It is a one year programme equipping youth with practical knowledge.
- (c) The Apprentices will be imparted training by industry and commercial organisations.
- (d) NATS include students from engineering stream.
- (e) Scheme will also provide apprenticeships in the emerging areas under Production Linked Incentive.

Q131. Consider the following statement regarding Prime Minister's Scholarship Scheme (PMSS):

- I. PMSS is run by the Ministry of Home Affairs, Government of India.
- II. It is a scholarship scheme that aims at encouraging higher professional and technical education.
- III. It is only for the dependent wards and widows of State Police Personnel.

Which of the above statement/s is/are not correct?

- (a) I only
- (b) II only
- (c) III only
- (d) I and II only
- (e) II and III only

Q132. What is the maximum amount of incentive in the form of cashback provided for each vendor per Loan?

- (a) Rs. 1000
 - (b) Rs . 1050
 - (c) Rs. 1100
 - (d) Rs. 1200
 - (e) Rs. 1250
-

Q133. What should be the maximum income of a person for availing the benefit of PM Shram Man dhan Yojana?

- (a) Rs. 12000
- (b) Rs. 13000
- (c) Rs. 14000
- (d) Rs. 15000
- (e) Rs. 16000

Q134. Regional Rural Banks (RRBs) is not located in which of the following states?

- (a) Goa
- (b) Maharashtra
- (c) Uttarakhand
- (d) Uttar Pradesh
- (e) Madhya Pradesh

Q135. As per the census of 2011, what is the percentage of the rural population with respect to the total population?

- (a) 55.6%
- (b) 68.84%
- (c) 69.84
- (d) 72.5
- (e) None of the above

Q136. Which of the following states have the Maximum cooperative societies?

- (a) Kerala
- (b) Uttarakhand
- (c) Maharashtra
- (d) Tamil Nadu
- (e) None of the above

Q137. As per the present FDI Policy, 100% FDI is allowed in the which of the following activities of agriculture through automatic route?

- (a) Horticulture
- (b) Coffee Production
- (c) Palm oil plantation
- (d) Pisciculture
- (e) All of the above

Q138. Employees' Deposit-Linked Insurance is an insurance cover provided by the EPFO for private employees. It was launched in which of the following year?

- (a) 1976
 - (b) 1978
 - (c) 1979
 - (d) 1980
 - (e) None of the above
-

Q139. 'Mission Shakti' was launched during the 15th Finance Commission period 2021-22 to ____.

- (a) 2024-25
- (b) 2025-26
- (c) 2026-27
- (d) 2027-28
- (e) None of the above

Q140. 'Students' and Teachers' Holistic Advancement through Quality Education (SARTHAQ) scheme is related to ?

- (a) Finance
- (b) Horticulture
- (c) Education
- (d) Share Market
- (e) Insurance

Q141. Central Consumer Protection Authority (CCPA) as a regulatory authority was established under which section of Consumer Protection Act of 2019?

- (a) Section 9
- (b) Section 10
- (c) Section 11
- (d) Section 12
- (e) Section 15

Q142. Recently Pradhan Mantri Suraksha Bima Yojana (PMSBY) had increased the premium from Rs.12 to ____ ?

- (a) 15
- (b) 18
- (c) 19
- (d) 20
- (e) 25

Q143. Which of the following is not the eligible beneficiary under Prime Minister's Overarching Scheme for Holistic Nourishment Abhiyaan POSHAN 2.0:

- (a) Child from 0 to 6 years
- (b) Pregnant women
- (c) Adolescent girls from north east region
- (d) Lactating women
- (e) None of the above

Q144. According to the Food Safety and Standards Authority of India (FSSAI)'s 4th State Food Safety Index (SFSI), Which state holds the top position?

- (a) Kerala
 - (b) Gujarat
 - (c) Andhra Pradesh
 - (d) Tamil Nadu
 - (e) None of the above
-

Q145. Under Pradhan Mantri Ujjwala Yojna (PMUY), the beneficiaries get how much subsidy in their bank account and how many subsidized cylinders per year?

- (a) Rs 200 ,12
- (b) Rs 300, 12
- (c) Rs 350, 10
- (d) Rs 400, 12
- (e) None of the above

Q146. According to Microfinance Institutions Network (MFIN) MFIN Micrometer Q4 FY21-22, which state ranked second and third in top after Tamil Nadu?

- (a) Gujarat and West Bengal
- (b) Kerala and Uttarkhand
- (c) Bihar and West Bengal
- (d) Tamil Nadu and Kerala
- (e) None of the above

Q147. World Bank has approved what amount for India's Road safety Programme?

- (a) \$ 150 MILLION
- (b) \$ 175 MILLION
- (c) \$ 200 MILLION
- (d) \$ 250 MILLION
- (e) \$ 255 MILLION

Q148. Which organization regulates angel investment?

- (a) IFSCA
- (b) SEBI
- (c) RBI
- (d) Department of Finance
- (e) None of the above

Q149. Women's participation rate remains at ____ under MGNREGA in FY 2021-22.

- (a) 45.6%
- (b) 50.9%
- (c) 54.54%
- (d) 57.60%
- (e) None of the above

Q150. How much money was allocated to Rural Infrastrucutre Development Fund (RIDF) for the year 2021-22?

- (a) 40,000 cr
 - (b) 42,000 cr
 - (c) 45,000 cr
 - (d) 46,000 cr
 - (e) None of the above
-

Q151. Ministry of minority affairs was separated from Ministry of social justice and empowerment in which of the following year?

- (a) 2004
- (b) 2005
- (c) 2006
- (d) 2007
- (e) 2008

Q152. Which of the following is not the parameters of niti aayog's aspirational district index?

- (a) Health & Nutrition
- (b) Banking System
- (c) Agriculture & Water Resources
- (d) Financial Inclusion & Skill Development
- (e) Infrastructure

Q153. Pradhan Mantri Gram Sadak Yojana (PMGSY), the rural roads construction scheme, in the budget for the year 2022-23 was raised how much percent?

- (a) 30%
- (b) 32%
- (c) 33%
- (d) 36%
- (e) 40%

Q154. The number of people having access to improved sanitation facilities increased to what percent according to NFHS- 5, from 49 per cent in NHFS-4?

- (a) 65%
- (b) 60%
- (c) 72%
- (d) 78%
- (e) 70%

Q155. NPS for traders provides a monthly minimum assured pension of what amount after attaining the age of 60 years?

- (a) Rs 2500
- (b) Rs 4000
- (c) Rs 1500
- (d) Rs 2000
- (e) Rs 3000

Q156. Recently Government of India took some initiatives to improve Sex ratio in the country. Sex Ratio has increased to 937 in 2020-21 from ___ in 2014-15?

- (a) 918
 - (b) 914
 - (c) 910
 - (d) 900
 - (e) 909
-

Q157. What is the maximum pension under Atal Pension Yojana?

- (a) Rs 2500
- (b) Rs 4000
- (c) Rs 1500
- (d) Rs 2000
- (e) Rs 5000

Q158. How much cash benefit is provided under Pradhan Mantri Matru Vandana Yojana (PMMVY) in each installment?

- (a) Rs. 4000
- (b) Rs. 4500
- (c) Rs. 5000
- (d) Rs. 6000
- (e) Rs. 6500

Q159. Consider the following statement:

- I. Access
- II. Usage
- III. Quality

Which of the above are sub-indices of the Financial Inclusion Index:

- (a) I only
- (b) II only
- (c) III only
- (d) I and II only
- (e) I, II and III

Q160. Government of India renamed the PTGs as Particularly Vulnerable Tribal Groups (PVTGs), there are how much PVTGs notified in the country?

- (a) 70
- (b) 73
- (c) 75
- (d) 76
- (e) 78

Q161. Coconut is propagated through?

- (a) Seedlings
- (b) Grafting
- (c) Layering
- (d) Budding
- (e) None of the above

Q162. Climate smart agriculture does not include- increased production?

- (a) Increased productivity, Enhanced resilience & Reduced emissions
 - (b) Bridge a knowledge gap by providing clarity on CSA terminology, components, relevant issues, and how to contextualize them under different country conditions.
 - (c) Better nutrition, a better environment and a better life for all, leaving no one behind
 - (d) Increase in the production with ecology Sustainability
 - (e) Ecosystem Balance
-

Q163. Farming so as to meet society's present food and textile needs, without compromising the ability for current or future generations to meet their needs?

- (a) Sustainable agriculture
- (b) Shifting Agriculture
- (c) Natural farming
- (d) Permaculture
- (e) None of the above

Q164. The deficiency in plants can be visually identified at the early vegetative stage as an abnormally dark green or reddish-purple color along the edge of the lower plant leaves?

- (a) Potassium
- (b) Phosphorus
- (c) Nitrogen
- (d) Calcium
- (e) Boron

Q165. Botanical Name of Teak?

- (a) Grevellia robusta
- (b) Casuarina equisetifolia
- (c) Ailanthus altissima
- (d) Terminalia arjuna
- (e) Tectonia Grandis

Q166. Whitish-gray powdery coating on the leaves or fruit. On leaves, initial symptoms appear as chlorotic spots on the upper leaf surface that soon become whitish lesions is the symptom seen in grapes, roses and other aromatic crops are due to which disease?

- (a) Downey Mildew
- (b) Powdery mildew
- (c) Anthracnose
- (d) Collar Rot
- (e) None of the above

Q167. Highest cut rose sold in which day?

- (a) Rose Day
- (b) Valentine's Day
- (c) Mother's Day
- (d) Father's Day
- (e) Xmas Day

Q168. Which organelle responsible for growth and development?

- (a) Cytoplasm
 - (b) Nucleus
 - (c) Ribosome
 - (d) Mitochondria
 - (e) None of the above
-

Q169. Ram lamb castrate at what age?

- (a) 7-10 Days
- (b) 1-2 Weeks
- (c) 2-4 Weeks
- (d) 4-10 Weeks
- (e) > 14 Weeks

Q170. What should be the pH for the Fish Pond for fish culture?

- (a) 6.5 – 9.0
- (b) 4-4.5
- (c) 11-14
- (d) 4.5-5
- (e) None of the above

Q171. Agroforestry system in which long fodder crops are grown to protect the soil, mulching and to prevent erosion.

- (a) Silvi pastoral
- (b) Taungya
- (c) woody hedges
- (d) Shifting agriculture
- (e) Acqua- Forestry

Q172. Grapes leaf feeding in initial stage and complete defoliation in?

- (a) Defoliator beetle
- (b) Defoliator thrips
- (c) Defoliator Aphids
- (d) Defoliator jassids
- (e) None of these

Q173. It involves the participation and collaboration of various stakeholders including community, government and nongovernmental organizations fir the timber, wood collection?

- (a) Social Forestry
- (b) Community forestry
- (c) Extension Forestry
- (d) Farm Forestry
- (e) None of the above

Q174. What is the GVA share of agriculture sector according to the First Income estimates?

- (a) 18.3
 - (b) 20.2
 - (c) 18.8
 - (d) 19.6
 - (e) 15.4
-

Q175. Any surface area from which runoff resulting from rainfall is collected and drained through a common point?

- (a) Watershed management
- (b) Rain water Harvesting
- (c) Hygroscopic coefficient
- (d) None of these
- (e) All of these

Q176. Scheme which is used to assess the current status of soil health and, when used over time, to determine changes in soil health that are affected by land management?

- (a) Pradhan Mantri Kisan Maan Dhan Yojana
- (b) Soil Health Card
- (c) eNAM
- (d) PKVY
- (e) None of the above

Q177. Damping Off of Papaya symptoms?

- (a) The disease prominently appears on green leaves and also on green immature fruits.
- (b) The symptoms appear in the form of brown to black depressed spots on the fruits.
- (c) The initial symptoms are water-soaked, sunken spots on the fruit.
- (d) The centers of these spots later turn black and then pink when the fungus produces spores
- (e) None of these

Q178. An integral part of the National Agricultural Research System (NARS), aims at assessment of location specific technology modules in agriculture?

- (a) ATMA
- (b) KVK
- (c) Esharam
- (d) E shakti
- (e) None

Q179. Which one of the following is Indian Major Carps?

- (a) Catla Catla
- (b) Both (a) & (b)
- (c) Cyprinus Carpio
- (d) None of these
- (e) All of these

Q180. When major output is expected from per unit input focus is on factor of production (Land Labor Capital Enterprise)?

- (a) Agri diversification
 - (b) Agri intensification
 - (c) Agri exclusivity
 - (d) None of these
 - (e) All of these
-

Q181. MSP of Lentil of Rabi Marketing Season (2020-21)?

- (a) 2015
- (b) 2050
- (c) 4800
- (d) 5400
- (e) 4500

Q182. Apna Khet Apna Kaam is the scheme of under MGNREGA which state?

- (a) Rajasthan
- (b) Punjab
- (c) Haryana
- (d) None of these
- (e) All of these

Q183. _____ is the amount that soil contains in equilibrium with air at one standard atmosphere @ 98% relative humidity at room temperature.

- (a) Hydraulic conductivity
- (b) Field capacity
- (c) Vapour pressure gradient
- (d) Hygroscopic coefficient
- (e) Moisture equivalent

Q184. Gestation period of Sheep?

- (a) 280 ± 3
- (b) 310 ± 5
- (c) 150 ± 5
- (d) 180 ± 2
- (e) None of these

Q185. Agriculture education day is celebrated on the birth anniversary of?

- (a) Rajendra Prasad
- (b) C.C. Singh
- (c) Venkatraman
- (d) None of these
- (e) All of these

Q186. A production system which avoids or largely excludes the use of synthetically compounded fertilizers, pesticides, growth regulators, genetically modified organisms and livestock food additives?

- (a) Organic Farming
 - (b) Commercial Farming
 - (c) Extensive Farming
 - (d) None of these
 - (e) All of these
-

Q187. The popular breed of poultry which belongs to Italy?

- (a) Plymouth rock
- (b) Rhode Island Red
- (c) White leghorn
- (d) White leghorn Assel
- (e) New Hampshire

Q188. The process by which fruits attain their desirable flavour, quality, colour, palatable nature and other textural properties?

- (a) Degreening
- (b) Ripening
- (c) Curing
- (d) Ethylene
- (e) Defreezing

Q189. Process of drop down of milk after the stimulation of oxytocin_____?

- (a) Mamogenesis
- (b) Milk let down
- (c) Squeezing
- (d) Ejaculation
- (e) None of these

Q190. Development of interveinal chlorosis from bottom to top in later stages, purple colour and bronzing ultimately drying of plant parts?

- (a) Potassium
- (b) Phosphorus
- (c) Nitrogen
- (d) None of these
- (e) All of these

Q191. The modified stem that grow horizontally on the ground or below the ground are called?

- (a) Runners
- (b) Suckers
- (c) Offsets
- (d) Rhizomes
- (e) All of these

Q192. Is a pan-India electronic trading portal which networks the existing APMC mandis to create a unified national market for agricultural commodities?

- (a) e- NAM
 - (b) e-market
 - (c) E-kisan
 - (d) E- mandi
 - (e) All of these
-

Q193. According to the census of India 2011, What is the Percentage of Rural Population of India?

- (a) 62.17%
- (b) 54.12%
- (c) 36.51%
- (d) 68.84%
- (e) None of these

Q194. The percentage of population living in rural areas in India, as per Census 2011, stands at 68.84%. About 83.3 crore people live in rural areas out of 121 crore Indians?

- (a) 48.9%
- (b) 55%
- (c) 72%
- (d) 27%
- (e) 27.7%

Q195. Fixed cost for tractor?

- (a) Depreciation
- (b) Maintenance
- (c) Fuel and oil cost
- (d) Repairs
- (e) None of the above

Q196. Substances that contain microorganisms, which when added to the soil increase its fertility and promotes plant growth?

- (a) Chemical fertilizers
- (b) Biofertilizers
- (c) Green manures
- (d) Mulch crops
- (e) All of these

Q197. What is the type of farming done along the contour of sloping land to avoid soil erosion with slope less than 33%?

- (a) Graded bunding
- (b) Bench terracing
- (c) Contour farming
- (d) Bunding
- (e) Stone terracing

Q198. Aromatic plant botanical name- export and produce in India for perfume and fragrance?

- (a) Jasmine
 - (b) Portulaca
 - (c) Champa
 - (d) Marigold
 - (e) None of these
-

Q199. The water that held tightly on the surface of soil colloidal particle is known as essentially non-liquid and moves primarily in the vapour form?

- (a) Gravitational water
- (b) Capillary water
- (c) PWP
- (d) Hygroscopic Water
- (e) Field Capacity

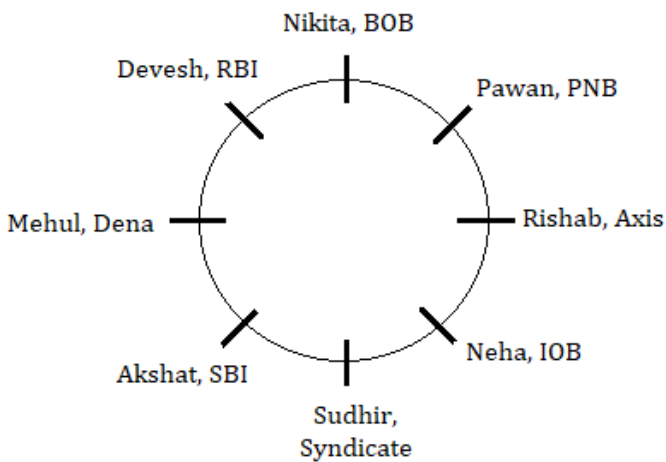
Q200. A wax like substance containing the natural flower perfume together with some plant waxes, albumin and colouring matter?

- (a) Defoliator beetle
- (b) Defoliator thrips
- (c) None of these
- (d) All of these
- (e) Either (a) or (b)

Solutions

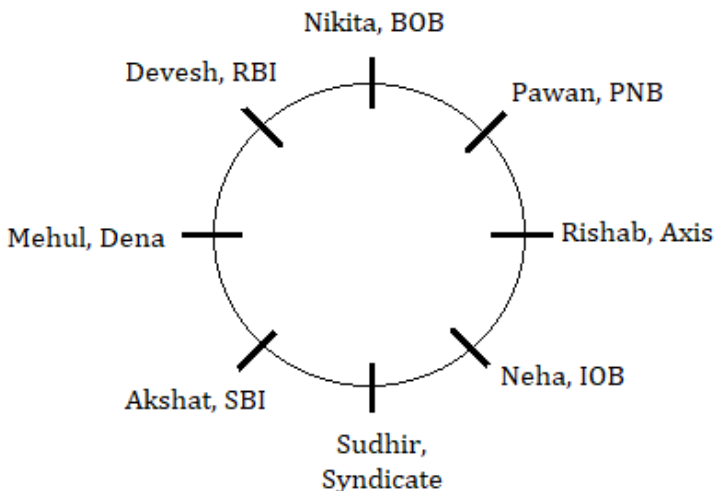
S1. Ans.(a)

Sol.

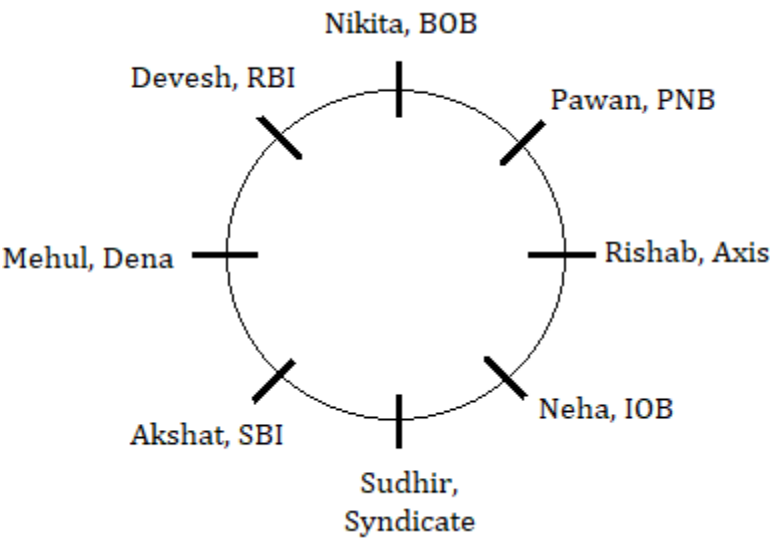


S2. Ans.(d)

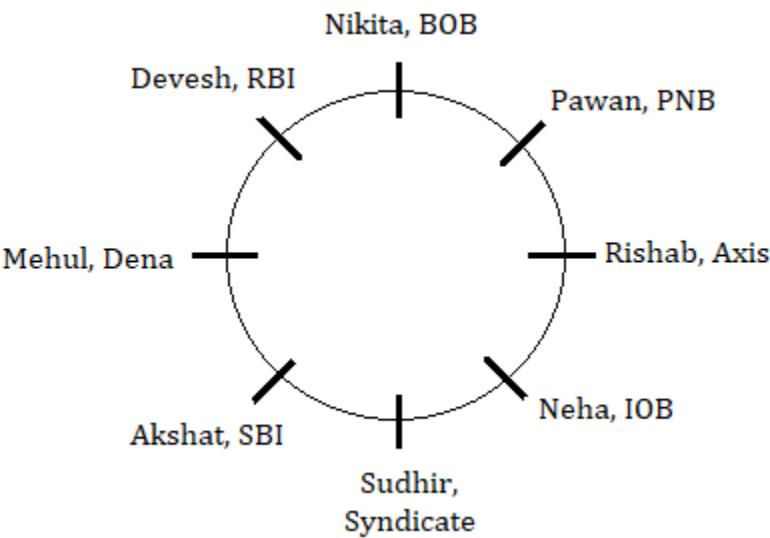
Sol.



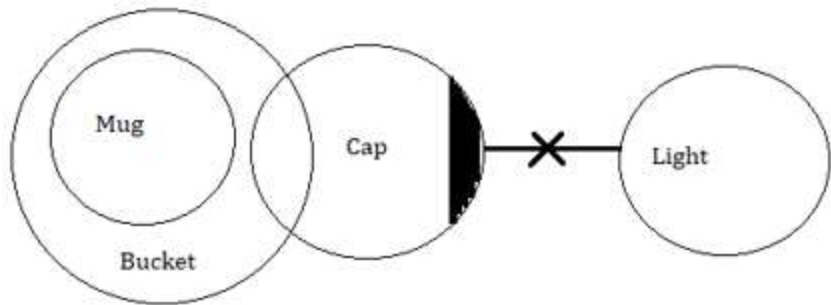
S3. Ans.(e)
Sol.



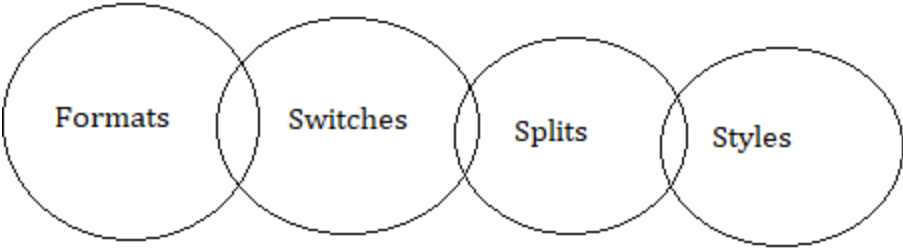
S4. Ans.(e)
Sol.



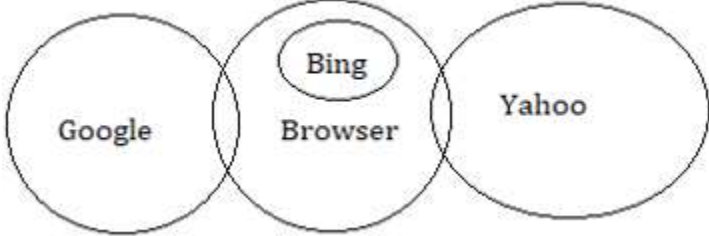
S5. Ans.(e)
Sol.



S6. Ans.(d)
Sol.



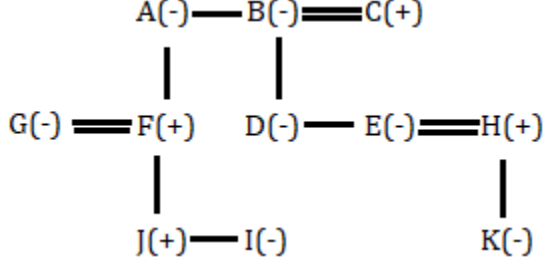
S7. Ans.(c)
Sol.



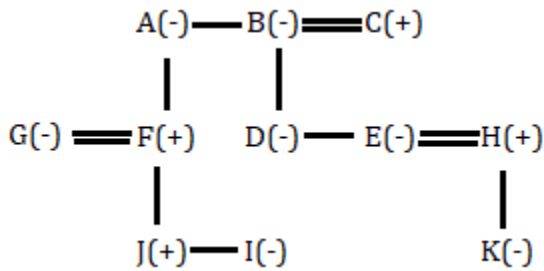
S8. Ans.(c)

S9. Ans.(b)
Sol. If only conclusion I is true.

S10. Ans.(b)
Sol.



S11. Ans.(d)
Sol.

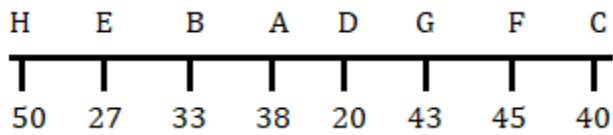


S12. Ans.(e)
Sol.

H	E	B	A	D	G	F	C
50	27	33	38	20	43	45	40

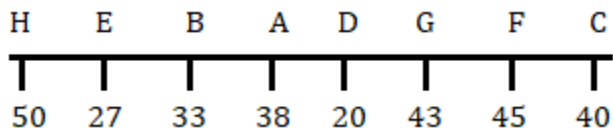
S13. Ans.(b)

Sol.



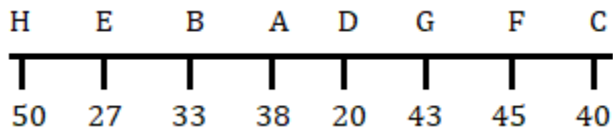
S14. Ans.(a)

Sol.



S15. Ans.(b)

Sol.



S16. Ans.(c)

Sol.

Month	Person	City
January	L	Lucknow
March	O	Pune
April	R	Ranchi
July	K	Nainital
September	T	Kolkata
November	G	Patna
	M	Agra
	A	Dehradun

S17. Ans.(c)

Sol.

Month	Person	City
January	L	Lucknow
March	O	Pune
April	R	Ranchi
July	K	Nainital
September	T	Kolkata
November	G	Patna
	M	Agra
	A	Dehradun

S18. Ans.(c)

Sol.

Month	Person	City
January	L	Lucknow
March	O	Pune
April	R	Ranchi
July	K	Nainital
September	T	Kolkata
November	G	Patna
	M	Agra
	A	Dehradun

S19. Ans.(e)

Sol.

Month	Person	City
January	L	Lucknow
March	O	Pune
April	R	Ranchi
July	K	Nainital
September	T	Kolkata
November	G	Patna
	M	Agra
	A	Dehradun

S20. Ans.(b)

Sol.

Month	Person	City
January	L	Lucknow
March	O	Pune
April	R	Ranchi
July	K	Nainital
September	T	Kolkata
November	G	Patna
	M	Agra
	A	Dehradun

S21. Ans.(a)

Sol. Only ii

The passage mentions that the basic principle behind AI has existed for many decades. The recent changes in AI are related to our capability to rapidly acquire or generate a large amount of data and use it to derive meaningful conclusions using powerful computers. This corresponds to option (ii) - "AI can now process large amounts of data, that was obtained or produced, using advanced computers."

S22. Ans.(b)

Sol. By changing the diagnosis and treatment method, with the help of a uniform and centralised data deposition system.

The passage discusses that a uniform and centralised data-deposition system under the National Health Policy can significantly change patient diagnosis and treatment, and aid in preventive health management. This aligns with option (b).

S23. Ans.(a)**Sol.** i, ii and iii

According to the passage, AI can help farmers by predicting weather successfully, providing guidance on what to grow, and helping them monitor soil health. These aspects are covered by options (i), (ii), and (iii).

S24. Ans.(b)**Sol.** Both ii and iii

The passage mentions that the success in developing tools and applications based on AI depends on understanding underlying data and processes related to data generation, storage, security, etc. (statement ii). It also mentions that successful development of AI-based applications in health care and agriculture requires integrating knowledge from areas of biotechnology (statement iii).

S25. Ans.(e)**Sol.** enforceable

In this context, the word that best fits the blank is "enforceable." The sentence is discussing the need for proper checks and balances that can be legally enforced to prevent the misuse of power. The term "enforceable" means capable of being enforced by law, which aligns perfectly with the intended meaning.

S26. Ans.(a)**Sol.** cardinal

The word "underlying" means fundamental, basic, or essential. Among the given options, the word "cardinal" is a synonym that carries a similar meaning. "Cardinal" refers to something of primary importance or significance, just like "underlying" implies something fundamental or foundational. Therefore, (a) "cardinal" is the correct synonym for "underlying" in this context.

S27. Ans.(d)**Sol.** Both I and III

In sentence I, the phrase "lay off" is used correctly to mean "refrain from" or "take a break from."

In sentence III, the phrase "laid off" is used correctly in the context of workers being terminated from their jobs.

However, in sentence II, the phrase "lay off" is used inappropriately. The correct phrase here should be "take a break" or "take time off" instead of "lay off." Therefore, only sentences I and III use the phrase correctly.

S28. Ans.(d)**Sol.** Only III

In sentence III, the phrase "under the weather" is used correctly to mean that someone is not feeling well or is slightly ill.

In sentence I, the phrase "under the weather" is used inappropriately. The phrase does not fit the context of everyone enjoying the party.

In sentence II, the phrase "under the weather" is again used inappropriately. The correct phrase here should be "under a clear sky" or "under the sunny weather." Therefore, only sentence III uses the phrase correctly.

S29. Ans.(c)**Sol.** Both I and III

In sentence I, the phrase "come up with" is used correctly to mean "generate" or "produce."

In sentence III, the phrase "came up with" is used correctly to mean "found" or "discovered."

However, in sentence II, the phrase "come up with" is used inappropriately. The correct phrase here should be "came up" or "was built" instead of "was come up with." Therefore, sentences I and III use the phrase correctly.

S30. Ans.(e)

Sol. No interchange required

The sentence is already grammatically and contextually correct. No interchange of words is required.

S31. Ans.(c)

Sol. 1 - 2 and 3 - 4

The correct sentence is:

Skills are a vital asset in today's globalised economy where jobs are under threat of automation.

The words in bold are not in their correct positions. The correct interchange of words is:

(1) and (2): asset and vital

(3) and (4): threat and unskilled

Therefore, the answer is (c).

S32. Ans.(b)

Sol. 1 - 3

The correct sentence is:

Corruption cases against government employees facing criminal cases are under the scanner of the Modi administration.

The words in bold are not in their correct positions. The correct interchange of words is:

(1) and (3): corruption and government

Therefore, the answer is (b).

S33. Ans.(d)

Sol. 1 - 4 and 2 - 5

The correct sentence is:

If the passengers are not given an alternative, the authorities are obliged to provide compensation or cancel the flights.

The words in bold are not in their correct positions. The correct interchange of words is:

(1) and (4): obliged and flights

(2) and (5): alternative and cancelled

Therefore, the answer is (d).

S34. Ans.(b)

Sol. 4 - 5

The correct sentence is:

The revenue department has asked customs officials to ensure strict implementation of the prohibition of import of e-cigarettes.

The words in bold are not in their correct positions. The correct interchange of words is:

(4) and (5): import and prohibition

Therefore, the answer is (b).

S35. Ans.(a)

Sol. Nobody get

The correct sentence is:

Nobody gets to the point that they can't use more money.

The verb "get" should be used in the present tense because the subject "Nobody" is singular. The adverb "can't" should be used instead of "can't" because the subject "they" is plural.

S36. Ans.(b)

Sol. have been

The correct sentence is:

The group has been notoriously fickle in the past.

The verb "have been" should be used in the past tense because the adverb "in the past" indicates that the action happened in the past. The subject "The group" is singular, so the verb "has been" is used instead of "have been."

S37. Ans.(c)

Sol. over ninety has

The correct sentence is:

At least one-third of all women over ninety have sustained a hip fracture.

The subject "At least one-third of all women over ninety" is plural, so the verb "have" is used instead of "has."

S38. Ans.(e)

Sol. No error

The sentence is correct as it is. There is no grammatical error in the sentence.

S39. Ans.(c)

Sol. are generally attributed to

The correct sentence is:

The fall in the number of deaths from heart disease is generally attributed to improvements in diet.

The subject "The fall in the number of deaths from heart disease" is singular, so the verb "is" is used instead of "are."

S40. Ans.(c)

Sol. The correct sequence is (c) BDCE.

The rearranged sentence is: "The Reserve Bank of India has been given a last opportunity by the Supreme Court to stop being in contempt of the court's clear and unambiguous order of December 2015."

S41. Ans.(e)

Sol. The correct sequence is (e) BDAE.

The rearranged sentence is: "The restoration of the building began in November 2017 and was completed by conservation architect Vikas Dilawari on April 19, which also marked the eve of Shab-e-Baraat."

S42. Ans.(d)

Sol. The correct sequence is (e) CBAE.

The rearranged sentence is: "There's not much of a jungle left in Delhi now but there was a time when Shah Jahan could hunt up to what is now Uttam Nagar, near which he built his Hashtal Minar and elephant house."

S43. Ans.(d)

Sol. Adamantly, dispensed

In the context of the sentence, the phrase "taking poll promises" suggests that we are looking for a word that describes how we should approach these promises. The word "adamantly" fits well here, as it means taking these promises seriously and rigidly. The second blank requires a word that conveys the idea of finishing or ending the discussion. "Dispensed" means to do away with or finish, making it appropriate for the second blank.

S44. Ans.(b)**Sol.** Report, tardy

The sentence talks about something issued by the ministry that highlights the pace of project implementation. The word "report" is the most appropriate choice, as it implies an official statement from the ministry. "Tardy" means slow-moving or delayed, which accurately describes the pace of project implementation being discussed in the sentence.

S45. Ans.(a)**Sol.** Irrefutable, solution

The first blank requires a word that describes the seriousness and undeniable nature of the impacts. "Irrefutable" means impossible to deny or dispute, making it an appropriate choice. The second blank calls for a word that describes a definitive course of action. "Solution" fits this context as it implies taking effective measures to address the problem of poor air quality.

S46. Ans.(a)**Sol.** barely a month old

The phrase "not even a month older" suggests that we are talking about a young age. However, the correct way to express this idea is by using the phrase "barely a month old." This adheres to the grammatical rule of using the correct form for expressing age or time duration. In this case, "a month old" is the appropriate phrase to indicate the age of the cub.

S47. Ans.(a)**Sol.** despite better-qualified and more experienced

The grammatical error in this sentence is the use of "despite of," which is incorrect. The correct phrase is "in spite of." The grammatical rule here is that "in spite of" is the correct preposition to introduce a contrast or contradiction. It is used before a noun or a gerund (verb ending in -ing). Therefore, the correct phrase should be "despite better-qualified and more experienced," with "in spite of" correctly indicating the contrast.

S48. Ans.(a)**Sol.** need to be developed and implemented

The error in this sentence is related to parallelism and verb tense. The phrase "needing development and implemented" is not parallel in structure. The correct grammatical form is "need to be developed and implemented." The rule here is to maintain parallelism in sentence construction. When listing actions, they should be in the same grammatical form, which in this case is the infinitive form "to be developed and implemented."

S49. Ans.(b)**Sol.** to showcase their talent

The error here is in the pronoun agreement. The pronoun "his" does not agree with the plural noun "student entrepreneurs." The correct pronoun should be "their" to match the plural form. The rule is to ensure pronoun-noun agreement in number and gender. In this context, "their" is the correct pronoun to refer to the plural "student entrepreneurs."

S50. Ans.(e)

Sol. No correction required

This sentence is grammatically correct as it is. There are no errors to correct. The phrase "at a prestigious venue like" is appropriate because "like" is used here as a preposition to introduce examples of prestigious venues. The rule is that "like" can be used as a preposition to introduce examples or comparisons.

S51. Ans.(a)

Sol. Gutter margins are added to the binding side of a page when printing to ensure that the text or content near the binding is not obscured when the pages are bound together, such as in books or magazines.

S52. Ans.(b)

Sol. The shortcut key **Ctrl + Shift + Q** is used to highlight text in Excel, making it easy to apply formatting or edit the selected text.

S53. Ans.(a)

Sol. Cache memory is a high-speed volatile type of **RAM (Random Access Memory)** that stores frequently used data for quick access by the CPU, improving overall system performance.

S54. Ans.(e)

Sol. All the options listed (**Access, Table, Form, Relationship**) are related to Microsoft Office, specifically Microsoft Access, which is a part of the MS Office suite for creating and managing databases.

S55. Ans.(a)

Sol. Ethernet uses **Bus topology**.

S56. Ans.(d)

Sol. In Excel, pressing Ctrl + semicolon (;) inserts the **current date** into the selected cell. This keyboard shortcut is a quick way to add the current date to your Excel spreadsheet.

S57. Ans.(c)

Sol. Web layout view, a document in programs like Microsoft Word appears as it would in a web browser, making it easier to format and review content with a web-like appearance.

S58. Ans.(a)

Sol. In binary, the decimal number 1000 is represented as **1100100**. Each digit's position represents a power of 2, and when you add them up, it equals 1000 in decimal notation.

S59. Ans.(a)

Sol. Word processing encompasses all the tasks involved in creating, editing, formatting, storing, retrieving, and printing text documents. It's a fundamental function of software like Microsoft Word and Google Docs.

S60. Ans.(c)

Sol. Auto Save is a feature in MS Office applications that automatically saves the document at regular intervals, reducing the risk of data loss due to unexpected events like power outages or crashes.

S61. Ans.(c)

Sol. Change Case feature in word processing software, like Microsoft Word, allows you to change the selected text to either all capital letters, all small letters, or other capitalization formats like sentence case or title case.

S62. Ans.(b)

Sol. Macros in MS Office are primarily used **to automate repetitive or complex tasks**, such as formatting, calculations, or data manipulation, by recording and replaying a sequence of actions, saving time and reducing errors.

S63. Ans.(a)

Sol. Dots per inch refers to the resolution of the output image or simply the resolution of the printer. DPI measures the number of individual dots a printer can produce within a one-inch square, indicating print quality.

S64. Ans.(d)

Sol. Ctrl+N in MS-Word is used **to create and open a new document file.**

S65. Ans.(b)

Sol. ##### symbol indicates that the content within the cell is too wide to be displayed in its entirety within the cell's current width.

S66. Ans.(a)

Sol. Hyperlinks in MS Word are typically underlined by default, **not represented by bold and italics.**

S67. Ans.(b)

Sol. The term for a virus that disguises itself as a useful application is a **Trojan Horse.**

S68. Ans.(c)

Sol. You can copy cell formats from one cell to another in Excel by using the **Format Painter tool.**

S69. Ans.(a)

Sol. FORTRAN stands for **Formula Translation.** It is a high-level programming language originally designed for scientific and engineering calculations, known for its numerical and scientific computing capabilities.

S70. Ans.(a)

Sol. Software refers to the set of instructions that tell a computer what tasks to perform and how to execute them. Thank you for pointing out the correct answer.

S71. Ans.(a)

Sol.

$$\text{Total students in section D} = \frac{1}{4} \times 400 = 100$$

$$\text{Required number of boys} = \frac{4}{5} \times 100 = 80$$

S72. Ans.(b)

Sol.

$$\text{Required average} = \frac{15\% + 25\% + 20\%}{3} \times 400 = 80$$

S73. Ans.(c)

Sol.

$$\text{Number of boys in F} = \frac{1}{4} \times 80 = 20$$

$$\text{Number of girls in F} = \frac{1}{5} \times 60 = 12$$

$$\text{Total students in F} = 20 + 12 = 32$$

S74. Ans.(c)

Sol.

$$\text{Required percentage} = \frac{20-10}{10} \times 100 = 100\% \text{ more}$$

S75. Ans.(b)

Sol.

$$\text{Original number of students in A, C and E} = \frac{60}{100} \times 400 = 240$$

$$\text{If total students are 600, then number of students in A, C and E} = \frac{60}{100} \times 600 = 360$$

$$\text{Difference in the number of students} = 360 - 240 = 120$$

$$\text{Change in average} = \frac{120}{3} = 40$$

S76. Ans.(d)

Sol.

Pattern of the series

$$\begin{array}{ccccccc} 61, & 70, & 81, & 94, & 109, & & 126 \\ & +9 & +11 & +13 & +15 & +17 & \end{array}$$

S77. Ans.(a)

Sol.

Pattern of the series

$$\begin{array}{ccccccc} 23, & 28, & 38, & 53, & 73, & & 98 \\ & +5 & +10 & +15 & +20 & +25 & \end{array}$$

S78. Ans.(a)

Sol.

Pattern of the series

$$\begin{array}{ccccccc} 95, & 195, & 259, & 295, & 311, & & 315 \\ & +100 & +64 & +36 & +16 & +4 & \end{array}$$

S79. Ans.(b)

Sol.

Let the radius of the cylinder be $4x$

Then height of the cylinder = $5x$

$$2 \times \frac{22}{7} \times r \times (r + h) = 44352$$

$$2 \times \frac{22}{7} \times 4x \times (4x + 5x) = 44352$$

$$x^2 = 196$$

$$x = 14 \text{ cm}$$

Volume of water displaced = volume of cylinder

$$= \frac{22}{7} \times 4x \times 4x \times 5x = \frac{22}{7} \times 56 \times 56 \times 70 = 689920 \text{ cm}^3$$

S80. Ans.(a)

Sol.

Cost price of the bag = Rs 750

$$\text{Marked price of the bag} = \frac{180}{100} \times 750 = \text{Rs } 1350$$

$$\text{Original selling price of the bag} = \frac{80}{100} \times 1350 = \text{Rs } 1080$$

$$\text{New selling price} = \frac{150}{100} \times 750 = \text{Rs } 1125$$

$$\text{Required difference} = 1125 - 1080 = \text{Rs. } 45$$

S81. Ans.(b)

Sol.

Let his total earnings be Rs. $100x$

$$\text{Savings} = 100x - (22x + 36x + 15x + 21x) = 100x - 94x = 6x$$

ATQ,

$$6x = 420$$

$$x = 70$$

$$\text{Required value} = 22x + 36x = 58x = 58 \times 70 = \text{Rs } 4060$$

S82. Ans.(b)

Sol.

Let the number of males be $300x$ and the number of females be $500x$

$$\text{Adult females} = \frac{80}{100} \times 500x = 400x$$

$$400x = 5796$$

$$\text{Total people went to the zoo} = 800x = 5796 \times 2 = 11592$$

S83. Ans.(d)

Sol.

$$\text{I. } 2y^2 - 19y + 35 = 0$$

$$2y^2 - 14y - 5y + 35 = 0$$

$$2y(y-7) - 5(y-7) = 0$$

$$(2y-5)(y-7) = 0$$

$$y = 7, \frac{5}{2}$$

$$\begin{aligned}\text{II. } 4x^2 - 16x + 15 &= 0 \\ 4x^2 - 10x - 6x + 15 &= 0 \\ 2x(2x-5) - 3(2x-5) &= 0 \\ (2x-3)(2x-5) &= 0 \\ x &= \frac{5}{2}, \frac{3}{2} \\ x &\leq y\end{aligned}$$

S84. Ans.(e)

Sol.

$$\begin{aligned}\text{I. } 12y^2 + 11y - 15 &= 0 \\ 12y^2 + 20y - 9y - 15 &= 0 \\ 4y(3y+5) - 3(3y+5) &= 0 \\ (3y+5)(4y-3) &= 0 \\ y &= -\frac{5}{3}, \frac{3}{4} \\ \text{II. } 8x^2 - 6x - 5 &= 0 \\ 8x^2 - 10x + 4x - 5 &= 0 \\ 2x(4x-5) + 1(4x-5) &= 0 \\ (2x+1)(4x-5) &= 0 \\ x &= -\frac{1}{2}, \frac{5}{4} \\ \text{no relation}\end{aligned}$$

S85. Ans.(e)

Sol.

$$\begin{aligned}\text{I. } 8x^2 + 2x - 3 &= 0 \\ 8x^2 + 6x - 4x - 3 &= 0 \\ 2x(4x+3) - 1(4x+3) &= 0 \\ (2x-1)(4x+3) &= 0 \\ x &= \frac{1}{2}, -\frac{3}{4} \\ \text{II. } 6y^2 + 11y + 4 &= 0 \\ 6y^2 + 8y + 3y + 4 &= 0 \\ 2y(3y+4) + 1(3y+4) &= 0 \\ (2y+1)(3y+4) &= 0 \\ y &= -\frac{1}{2}, -\frac{4}{3}\end{aligned}$$

S86. Ans.(c)

Sol.

$$\begin{aligned}\text{Ratio of profit share of A, B and C} &= 5000 \times 24 : 6500 \times 18 : 8000 \times 12 = 40:39:32 \\ \text{Profit share of B and C} &= \frac{71}{111} \times 22200 = \text{Rs}14200\end{aligned}$$

S87. Ans.(b)

Sol.

$$\begin{aligned}\text{Total work} &= \text{LCM of } (30, 45) = 90 \text{ units} \\ \text{Efficiency of A} &= \frac{90}{30} = 3 \text{ units/day} \\ \text{Efficiency of B} &= \frac{90}{45} = 2 \text{ units/day} \\ \text{Time taken by A and B together to complete the work} &= \frac{90}{5} = 18 \text{ days} \\ \text{Time taken by C} &= 1.5 \times 18 = 27 \text{ days}\end{aligned}$$

S88. Ans.(c)

Sol.

$$\text{Amount due after 1 year} = \frac{140}{100} \times 18,000 = \text{Rs. } 25200$$

$$\text{Amount paid at the end of 1st year} = \frac{1}{8} \times 25200 = \text{Rs. } 3150$$

$$\text{Amount left after 1st year} = \frac{7}{8} \times 25200 = \text{Rs. } 22050$$

$$\text{Amount due after 2nd years} = \frac{140}{100} \times 22050 = \text{Rs. } 30870$$

$$\text{Amount paid after 2nd year} = \frac{1}{6} \times 30870 = \text{Rs. } 5145$$

$$\text{Amount left after 2nd year} = \frac{5}{6} \times 30870 = \text{Rs. } 25725$$

$$\text{Final due amount} = \frac{140}{100} \times 25725 = \text{Rs. } 36015$$

S89. Ans.(a)

Sol.

ATQ,

$$90x = 360 + 45x$$

$$45x = 360$$

$$x = 8$$

S90. Ans.(b)

Sol.

$$\text{Upstream speed} = 4 - 3 = 1 \text{ kmph}$$

$$\text{Downstream speed} = 4 + 3 = 7 \text{ kmph}$$

Let the distance the two points be D km

ATQ,

$$\frac{D}{1} + \frac{D}{7} = 8$$

$$\frac{7D}{7} + \frac{D}{7} = 8$$

$$D = 7 \text{ km}$$

S91. Ans.(a)

Sol. delphi technique

S92. Ans.(a)

Sol. Programmed decisions

S93. Ans.(d)

Sol. Anchoring

S94. Ans.(c)

Sol. Bounded rationality

S95. Ans.(b)

Sol. Reasoning

S96. Ans.(d)

Sol. Framing bias

S97. Ans.(d)

Sol. Brainstorming

S98. Ans.(d)

Sol. Bounded rationality

S99. Ans.(b)

Sol. The manager depends too greatly on one piece of information

S100. Ans.(c)

Sol. Evaluating the alternatives

S101. Ans.(c)

S102. Ans.(a)

S103. Ans.(c)

S104. Ans.(a)

S105. Ans.(b)

S106. Ans.(c)

S107. Ans.(d)

S108. Ans.(a)

S109. Ans.(b)

S110. Ans.(c)

S111. Ans.(b)

S112. Ans.(b)

S113. Ans.(b)

S114. Ans.(b)

S115. Ans.(a)

S116. Ans.(d)

S117. Ans.(b)

S118. Ans.(c)

S119. Ans.(a)

S120. Ans.(a)

S121. Ans.(c)

Sol. PM Shram Yogi Maan-dhan (PM-SYM)

S122. Ans.(c)

Sol. 18 to 70

S123. Ans.(c)

Sol. Article 42

S124. Ans.(e)

Sol. V only

S125. Ans.(e)

Sol. The results of SECC 2011 were released in 2017

S126. Ans.(d)

Sol. 0.8%

S127. Ans.(a)

Sol. 30%

S128. Ans.(d)

Sol. Credit Link

S129. Ans.(b)

Sol. 70%

S130. Ans.(d)

Sol. NATS include students from engineering stream.

S131. Ans.(c)

Sol. III only

S132. Ans.(d)

Sol. Rs. 1200

S133. Ans.(d)

Sol. Rs. 15000

S134. Ans.(a)

Sol. Goa

S135. Ans.(b)

Sol. 68.84%

S136. Ans.(c)

Sol. Maharashtra

S137. Ans.(e)

Sol. All of the above

S138. Ans.(a)

Sol. 1976

S139. Ans.(b)

Sol. 2025-26

S140. Ans.(c)

Sol. Education

S141. Ans.(b)

Sol. Section 10

S142. Ans.(d)

Sol. 20

S143. Ans.(c)

Sol. Adolescent girls from north east region

S144. Ans.(d)

Sol. Tamil Nadu

S145. Ans.(a)

Sol. Rs 200 ,12

S146. Ans.(c)

Sol. Bihar and West Bengal

S147. Ans.(d)

Sol. \$ 250 MILLION

S148. Ans.(a)

Sol. IFSCA

S149. Ans.(c)

Sol. 54.54%

S150. Ans.(a)

Sol. 40,000 cr

S151. Ans.(c)

Sol. 2006

S152. Ans.(b)

Sol. Banking System

S153. Ans.(d)

Sol. 36%

S154. Ans.(e)

Sol. 70%

S155. Ans.(e)

Sol. Rs 3000

S156. Ans.(a)

Sol. 918

S157. Ans.(e)

Sol. Rs 5000

S158. Ans.(c)

Sol. Rs. 5000

S159. Ans.(e)

Sol. I, II and III

S160. Ans.(c)

Sol. 75

S161. Ans.(a)

Sol. Coconut (*Cocos nucifera*) is a widely cultivated tropical palm tree that produces the coconut fruit. It can be propagated through various methods, with seedlings being one of the common and traditional approaches.

S162. Ans.(a)

Sol. The correct option is (a) Increased productivity.

- Climate smart agriculture focuses on increasing productivity, enhancing resilience, and reducing emissions in order to address the challenges of climate change and ensure food security.
- It aims to achieve sustainable agricultural practices that are both environmentally friendly and economically viable

S163. Ans.(a)

Sol. **Sustainable agriculture** is farming in sustainable ways meeting society's present food and textile needs, without compromising the ability for current or future generations to meet their needs. It can be based on an understanding of ecosystem services.

S164. Ans.(b)

Sol. A typical signal of phosphorus nutrient deficiency in plants is bronzy, purplish, or reddish coloring in the lower parts of mature foliage. Sometimes, severe starvation results in brownish dotting and necrosis. P deficiency in grain crops (e.g., wheat) results in poor tillering.

S165. Ans.(e)

Sol. Teak (*Tectona grandis*) is a tropical hardwood tree species in the family Lamiaceae. It is a large, deciduous tree that occurs in mixed hardwood forests. *Tectona grandis* has small, fragrant white flowers arranged in dense clusters (panicles) at the end of the branches.

S166. Ans.(b)

Sol. Powdery mildew is a fungal disease that affects a wide range of plants, including ornamental plants, vegetables, and fruit trees. These fungi create a white or grayish, powdery coating on the surfaces of leaves, stems, flowers, and fruit. The powdery appearance is a result of the spores produced by the fungus.

S167. Ans.(b)

Sol. Valentine's Day is the number one holiday for florists, accounting for most of the industry's fresh flower sales. Seventy-eight percent of the flower's consumers purchase for Valentine's Day are cut flowers.

S168. Ans.(b)

Sol. The correct option is (b) Nucleus.

- **The nucleus is the organelle responsible for growth and development.** It contains the genetic material, DNA, which carries the instructions for the synthesis of proteins and other molecules needed for the growth and development of the organism.
- The nucleus controls the cell's activities and is involved in cell division, which is essential for growth and development.
- Therefore, the nucleus plays a crucial role in the growth and development of an organism.

S169. Ans.(c)

Sol. Ram lambs should be castrated at the age of 14 days (2 – 4 weeks) or less, at least 10 minutes after local anesthesia with lidocaine, applying a rubber ring. The toxic dose of 4 mg lidocaine/kg BW (corresponds to 1 ml lidocaine 2 % per lamb of 5 kg BW) should not be exceeded.

S170. Ans.(a)

Sol. The scale for measuring the degree of acidity is called the pH scale, which ranges from 1 to 14. A value of 7 is considered neutral, neither acidic or basic; values below 7 are considered acidic; above 7, basic. **The acceptable range for fish culture is normally between pH 6.5- 9.0.**

S171. Ans.(a)

Sol. The correct option is (a) Silvi pastoral.

- Silvi pastoral is an agroforestry system where long fodder crops are grown along with trees to protect the soil, provide mulching, and prevent erosion.
 - In this system, the trees provide shade and support for the fodder crops, while the fodder crops help to prevent soil erosion and improve soil fertility through their root systems.
 - This system is commonly used in pastoral areas where livestock are raised and where there is a need for both fodder and timber resources.
 - It helps to enhance the productivity of both livestock and trees while also promoting sustainable land management practices.
-

S172. Ans.(a)

Sol. The correct option is (a) Defoliator beetle.

- Defoliator beetles are known for feeding on the leaves of plants, especially in their initial stages.
- They can cause damage to plants by consuming the leaves, which can lead to reduced photosynthesis and overall plant health.
- In severe cases, defoliator beetles can cause complete defoliation, where all the leaves on a plant are eaten.

S173. Ans.(b)

Sol. The correct option is (b) Community forestry.

- **Community forestry involves the participation and collaboration of various stakeholders, including community members, government agencies, and non-governmental organizations, in the management and utilization of forest resources.**
- It aims to empower local communities to take ownership and responsibility for the management of forests and their resources, such as timber and wood collection.
- Community forestry programs often include activities such as forest conservation, sustainable harvesting practices, reforestation, and income generation through the sale of forest products.
- This approach promotes sustainable forest management while also addressing the social and economic needs of the local communities.

S174. Ans.(a)

Sol. According to the estimates, released by the Ministry of Statistics & Programme Implementation (MoSPI), the GVA of agriculture and allied sectors in 2020-21 was 20.1%, it was 19% in 2021-22 and it again came down to **18.3% in 2022-23.**

S175. Ans.(a)

Sol. "watershed is defined as any surface area from which runoff resulting from rainfall is collected and drained through a common point. It is synonymous with a drainage basin or catchment area.

S176. Ans.(b)

Sol. A Soil Health Card is used to assess the current status of soil health and, when used over time, to determine changes in soil health that are affected by land management. A Soil Health Card displays soil health indicators and associated descriptive terms.

S177. Ans.(a)

Sol. The correct option is (a) "The disease prominently appears on green leaves and also on green immature fruits."

S178. Ans.(b)

Sol. Krishi Vigyan Kendra's (KVK). It is an integral part of the National Agricultural Research System (NARS), which aims at the assessment of location-specific technology modules in agriculture and allied enterprises, through technology assessment, refinement, and demonstrations.

S179. Ans.(a)

Sol. In India, the major carps include Catla (Catla catla), Rohu (Labeo rohita) and Mrigal (Cirrhinus mrigala). They are the mainstay of freshwater aquaculture. These are also the most preferred farm fishes because of their fast growth and higher acceptability to consumers.

S180. Ans.(b)

Sol. The correct option is (b) Agri intensification.

- **Agri intensification refers to increasing the productivity of agricultural activities by maximizing the use of available resources such as land, labor, capital, and enterprise.**
- In this approach, the focus is on getting the maximum output from a given unit of input.
- This can involve techniques such as using advanced technology, improved crop varieties, efficient irrigation systems, and better management practices.

S181. Ans.(c)

Sol.

Crops	MSP for RMS 2020-21 (Rs/quintal)
Wheat	1925
Barley	1525
Gram	4875
Lentil (Masur)	4800
Rapeseed & Mustard	4425
Safflower	5215

S182. Ans.(a)

Sol. The correct option is (a) Rajasthan.

Under the MGNREGA (Mahatma Gandhi National Rural Employment Guarantee Act), the "Apna Khet Apna Kaam" scheme was introduced in the state of Rajasthan.

The scheme "Apna Khet Apna Kaam" is implemented under MGNREGA in the state of Rajasthan.

Scheme	State
Apna Khet Apna Kaam	Rajasthan
MGNREGA	Nationwide

S183. Ans.(d)

Sol. Hygroscopic coefficient is the amount that soil contains in equilibrium with air at one standard atmosphere @ 98% relative humidity at room temperature

Hygroscopic coefficient

The hygroscopic coefficient is the maximum amount of hygroscopic water absorbed by 100 g of dry soil under standard conditions of humidity and temperature

The tension is equal to the force of 31 atm. It flows at a gravity of $> - 31$ bar

When water is held tightly as a thin film around soil particles by adsorption forces and no longer moves in capillary pores are called hygroscopic water

S184. Ans.(c)

Sol. The correct option is (c) 150 ± 5 .

- The gestation period of sheep is approximately 150 days, with a variation of ± 5 days.
- This means that the gestation period can range from 145 days to 155 days.
- This duration refers to the time from when the sheep is bred to when it gives birth to its lambs.

S185. Ans.(a)

Sol. The ICAR celebrates the Agricultural Education Day on 3rd December every year across the country to commemorate the Birth Anniversary of Bharat Ratna, Dr. Rajendra Prasad, the first Agriculture Minister of the country and First President of Independent India.

S186. Ans.(a)

Sol. Organic farming is a production system which avoids or largely excludes the use of synthetically compounded fertilizers, pesticides, growth regulators, genetically modified organisms and livestock food additives.

S187. Ans.(c)

Sol. The correct option is (c) White leghorn.

- **The White Leghorn is a popular breed of poultry that originated in Italy.**
- It is known for its white feathers, small size, and high egg production rate.
- Leghorns are commonly used for commercial egg production due to their ability to lay a large number of white eggs.
- They are also known for their active and energetic nature.

S188. Ans.(b)

Sol. Ripening is the process by which fruits attain their desirable flavour, quality, colour, palatable nature and other textural properties.

- Ripening is associated with change in composition i.e., conversion of starch to sugar.

S189. Ans.(b)

Sol. The correct option is (b) Milk let down.

- **After the stimulation of oxytocin, the process of milk let down occurs.**
- Oxytocin is a hormone that is released by the pituitary gland in response to stimuli such as a baby sucking on the mother's breast or the sound of a baby crying.
- This hormone causes the muscles around the milk-producing cells in the breast to contract, allowing the milk to be pushed into the milk ducts and be ready for the baby to suckle.
- This process is essential for the successful breastfeeding of a baby.

S190. Ans.(a)

Sol. The correct option is (a) Potassium.

- Interveinal chlorosis is the yellowing of the leaves in between the veins, indicating a deficiency in nutrients.
 - In this case, the development of interveinal chlorosis from bottom to top in later stages, along with purple color and bronzing, ultimately leading to drying of plant parts, is characteristic of a potassium deficiency.
 - Potassium is essential for various physiological processes in plants, including water regulation, enzyme activation, and nutrient transportation.
 - A deficiency in potassium can lead to reduced water uptake, poor nutrient transport, and impaired photosynthesis, resulting in the symptoms described above.
-

S191. Ans.(a)

Sol. The correct option is (a) Runners.

- Runners are modified stems that grow horizontally on the ground or below the ground and produce new plants at nodes along their length.
- They are also known as stolon's and are commonly seen in plants like strawberries and creeping grasses.

S192. Ans.(a)

Sol. e- NAM Is a pan-India electronic trading portal which networks the existing APMC mandis to create a unified national market for agricultural commodities.

S193. Ans.(d)

Sol. The level of urbanisation increased from 27.81% in the 2001 Census to 31.16% in the 2011 Census, while the proportion of rural population declined from 72.19% to **68.84%**.

S194. Ans.(a)

Sol. The correct option is (a) 48.9%.

According to Census 2011, the percentage of the population living in rural areas in India is 68.84%. This means that approximately 48.9% of the population lives in urban areas. The total population of India is 121 crores, out of which 83.3 crore people live in rural areas and the remaining population lives in urban areas.

S195. Ans.(a)

Sol. Ownership costs (also called fixed costs) includes depreciation, interest (opportunity cost), taxes, insurance, and housing and maintenance facilities. Operating costs (also called variable costs) include repairs and maintenance, fuel, lubrication and operator/labor cost.

S196. Ans.(b)

Sol. Biofertilizers are substance that contains microbes, which helps in promoting the growth of plants and trees by increasing the supply of essential nutrients to the plants.

- It comprises living organisms which include mycorrhizal fungi, blue-green algae, and bacteria.

S197. Ans.(c)

Sol. Contour farming is a soil conservation technique used in agriculture to prevent soil erosion on sloping land.

- It involves cultivating crops parallel to the contour lines of the land, forming natural barriers that slow down the flow of water and reduce soil erosion.

S198. Ans.(a)

Sol. Jasmine is a fragrant flowering plant belonging to the **Oleaceae** family. It is known for its delicate white or yellowish flowers that emit a sweet and captivating fragrance

S199. Ans.(d)

Sol. The correct option is (d) Hygroscopic water.

- The water that held tightly on the surface of soil colloidal particle is known as hygroscopic water.
 - It is essentially non-liquid and moves primarily in the vapour form.
 - Hygroscopic water held so tenaciously {31 to 10000 atmosphere) by soil. particles that plants cannot absorb it.
-

S200. Ans.(a)

Sol. The correct option is (a) Defoliator beetle.

- The wax-like substance described in the question is produced by the defoliator beetle.
 - This substance contains the natural flower perfume, as well as plant waxes, albumin, and coloring matter.
 - This substance helps the defoliator beetle attract mates and communicate with other beetles.
 - Damping off is a disease that affects the germination and early growth of seedlings, particularly in moist or overly wet conditions.
-