

**SSC Selection Post Phase XII 2024 Memory Based Mock
(Based on 20th June 2024 Exam)**

Q1. Birju Maharaj is related to which dance form?

- (a) Bharatanatyam
- (b) Kathakali
- (c) Odissi
- (d) Kathak

Q2. The Battle of Kannauj was fought between whom?

- (a) Akbar and Hemu
- (b) Babur and Ibrahim Lodi
- (c) Humayun and Sher Shah Suri
- (d) Aurangzeb and Dara Shikoh

Q3. In which article of the Indian Constitution is the Right to Privacy mentioned?

- (a) Article 14
- (b) Article 19
- (c) Article 21
- (d) Article 32

Q4. Who established the Lodi Dynasty?

- (a) Ibrahim Lodi
- (b) Bahlul Lodi
- (c) Sikandar Lodi
- (d) Sher Shah Suri

Q5. The Great Bath of Mohenjo-Daro was built with which material?

- (a) Stone
- (b) Wood
- (c) Bricks
- (d) Marble

Q6. Who was the Census Commissioner of India in 1951?

- (a) Mahalanobis
- (b) H.V.R. Iengar
- (c) R.A. Gopalaswami
- (d) W.W. Hunter

Q7. The Suresh Tendulkar Committee is related to what?

- (a) Education reforms
- (b) Poverty estimation
- (c) Economic policy
- (d) Tax reforms

Q8. The PM-Ujjwala Yojana is extended by how many years?

- (a) 1 year
- (b) 2 years
- (c) 3 years
- (d) 5 years

Q9. Which Mughal king was imprisoned by his son?

- (a) Babur
- (b) Akbar
- (c) Jahangir
- (d) Shah Jahan

Q10. Bullseye terminology is related to which sport?

- (a) Wrestling
- (b) Cricket
- (c) Football
- (d) Shooting

Q11. Yakshagana dance is related to which state?

- (a) Kerala
- (b) Karnataka
- (c) Tamil Nadu
- (d) Andhra Pradesh

Q12. An anemometer device is used to measure what?

- (a) Temperature
- (b) Humidity
- (c) Wind speed
- (d) Rainfall

Q13. Which Indian player scored the highest individual score in cricket in the ODI format?

- (a) Sachin Tendulkar
- (b) Virender Sehwag
- (c) Rohit Sharma
- (d) MS Dhoni

Q14. Which book was written by Kalidasa?

- (a) Meghaduta
- (b) Arthashastra
- (c) Mahabharata
- (d) Ramayana

Q15. Which organelle is known as the powerhouse of the cell?

- (a) Nucleus
- (b) Ribosome
- (c) Mitochondria
- (d) Chloroplast

Q16. In which state is the Bonalu festival celebrated?

- (a) Tamil Nadu
- (b) Karnataka
- (c) Telangana
- (d) Andhra Pradesh

Q17. Who returned the Knighthood award as a protest on Jallianwala Bagh Massacre?

- (a) Rabindranath Tagore
- (b) Mahatma Gandhi
- (c) Sardar Vallabhbhai Patel
- (d) Jawaharlal Nehru

Q18. The term of the Lok Sabha may be extended by how many months at a time during an emergency?

- (a) 3 months
- (b) 6 months
- (c) 9 months
- (d) 12 months

Q19. When was the Supreme Court of India established?

- (a) 1947
- (b) 1948
- (c) 1950
- (d) 1952

Q20. When did the Non-cooperation Movement start?

- (a) 1919
- (b) 1920
- (c) 1921
- (d) 1922

Q21. In which article of the Indian Constitution are constitutional amendments mentioned?

- (a) Article 356
- (b) Article 368
- (c) Article 370
- (d) Article 377

Q22. Which book was written by George Orwell?

- (a) Brave New World
- (b) Animal Farm
- (c) Catch-22
- (d) Fahrenheit 451

Q23. Which UNESCO World Heritage Site in India is located in the state of Maharashtra?

- (a) Red Fort
- (b) Qutub Minar
- (c) Ajanta Caves
- (d) Hampi

Q24. What is the objective of the PAHAL (DBTL) Scheme in India?

- (a) Providing housing loans
- (b) Direct Benefit Transfer for LPG subsidies
- (c) Promoting digital payments
- (d) Ensuring food security

Q25. Ricky Kej won the Grammy Award for which album?

- (a) Shanti Samsara
- (b) Divine Tides
- (c) Winds of Samsara
- (d) Sounds of India

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Q51. If 646_45 is divisible by 11, then the integer in the blank space is

- (a) 4
- (b) 5
- (c) 7
- (d) 1

Q52. Side BC of a ΔABC is produced to D such that $CD = AC$. Also, $AD = BD$ and $AB = AC$. What is the measure of $\angle ADB$?

- (a) 36°
- (b) 24°
- (c) 30°
- (d) 45°

Q53. A shopkeeper makes a net profit of 44% on selling an article at successive discounts of 10% and 20%. Find the net profit percentage, if the shopkeeper sells the same article at a discount of 15%.

- (a) 50%
- (b) 70%
- (c) 30%
- (d) 40%

Q54. The price of a scooter increases successively by 10%, 5% and 15%. What is the total percentage increase in price of scooter?

- (a) $32\frac{33}{40}\%$
- (b) $34\frac{21}{40}\%$
- (c) $30\frac{11}{40}\%$
- (d) $36\frac{31}{40}\%$

Q55. The simple interest on a certain sum for 3 years at 14% p.a. is Rs. 4,200 less than the simple interest on the same sum for 5 years at the same rate. Find the sum.

- (a) Rs. 16,000
- (b) Rs. 10,000
- (c) Rs. 15,000
- (d) Rs. 12,000

Q56. A mixture of milk and water measures 60 liters. It contains 10% water. How much water should be added to it, so that the water may be 25%?

- (a) 18 liters
- (b) 14 liters
- (c) 16 liters
- (d) 12 liters

Q57. A and B can complete a piece of work in 13 and 17 days respectively. A begins to do the work, and they work alternatively one at a time for one day each. The whole work will be completed in:

- (a) $17\frac{11}{17}$ days
- (b) $17\frac{17}{19}$ days
- (c) $14\frac{11}{17}$ days
- (d) $11\frac{11}{17}$ days

Q58. A cuboid of sides 12 cm, 18 cm and 27 cm is melted to form a cube. What is the ratio of the total surface area of the cuboid to that of the cube?

- (a) 18 : 17
- (b) 17 : 19
- (c) 19 : 18
- (d) 17 : 23

Q59. A man sells two cows for Rs.15,640 each, gaining 15% on one and losing 15% on the other. Find his total gain or loss.

- (a) Rs.720 loss
- (b) Rs.360 loss
- (c) Rs.720 gain
- (d) Rs.360 gain

Q60. The speed of a boat in still water is $5\frac{1}{3}$ km/h. It is found that the boat takes thrice as much time to row up than it does to row down the same distance in the river stream. Find the speed of the river stream.

- (a) $\frac{23}{27}$ m/sec
- (b) $\frac{22}{27}$ m/sec
- (c) $\frac{20}{27}$ m/sec
- (d) $\frac{19}{27}$ m/sec

Q61. Simplify the following.

$$9 \times 2 \div 3 \text{ of } 24 - 3 \div 2 \times (6 - 7) \times 2 + 3 \div 3 \text{ of } 5$$

- (a) 3
- (b) $\frac{3}{9}$
- (c) 4
- (d) $\frac{69}{20}$

Q62. The average age of 10 students and their class teacher is 17 years. If the age of the class teacher is excluded, the average age of the 10 students is reduced by 2 years. What is the age of the class teacher?

- (a) 38 years
- (b) 36 years
- (c) 37 years
- (d) 35 years

Q63. In a circular race track, three runners A, B, and C start running simultaneously from the same point. They take 12 minutes, 15 minutes, and 20 minutes respectively to complete one full lap around the track. After how many minutes will they all be at the starting point together again?

- (a) 60 minutes
- (b) 120 minutes
- (c) 180 minutes
- (d) 240 minutes

Q64. A hollow sphere has an outer radius of 4 cm and inner radius of 1 cm. What is the volume of this hollow sphere?

- (a) $84 \pi \text{ cm}^3$
- (b) $68 \pi \text{ cm}^3$
- (c) $48 \pi \text{ cm}^3$
- (d) $92 \pi \text{ cm}^3$

Q65. The radius of a circle is 5 cm. Calculate the length of a tangent drawn to this circle from a point at a distance of 10 cm from its centre.

- (a) $5\sqrt{5}$ cm
- (b) $5\sqrt{2}$ cm
- (c) 5 cm
- (d) $5\sqrt{3}$ cm

Q66. How much will an investment of \$4,000 amount to in 2 years at an annual interest rate of 6%, compounded annually?

- (a) \$4,470.40
- (b) \$4,480.00
- (c) \$4,494.40
- (d) \$4,500.00

Q67. If $a + b + c = 5$, $a^3 + b^3 + c^3 = 85$ and $abc = 25$, then find the value of $a^2 + b^2 + c^2 - ab - bc - ca$.

- (a) 2
- (b) 4
- (c) 6
- (d) 8

Q68. If $\sin \theta + \cos \theta = \frac{\sqrt{11}}{3}$, then what is $\sin \theta - \cos \theta$?

- (a) $\frac{\sqrt{7}}{4}$
- (b) $\frac{\sqrt{7}}{3}$
- (c) $\frac{\sqrt{5}}{3}$
- (d) $\frac{\sqrt{5}}{2}$

Q69. If $a - b = 2$ and $a^3 - b^3 = 80$, then what will be the value of ab ?

- (a) 12
- (b) -24
- (c) 24
- (d) -12

Q70. The value of $(\sin 30^\circ \cos 60^\circ - \cos 30^\circ \sin 60^\circ)$ is equal to:

- (a) $-\cos 30^\circ$
- (b) $-\sin 30^\circ$
- (c) $\cos 30^\circ$
- (d) $\sin 30^\circ$

Q71. If $\tan 3\theta \cdot \tan 7\theta = 1$, where 7θ is an acute angle, then find the value of $\cot 15\theta$.

- (a) 1
- (b) -1
- (c) $-\sqrt{3}$
- (d) $\sqrt{3}$

Q72. In a College, the number of students with different majors are as follows.

Subject	Number of students
Mathematics	45
Physics	60
History	30
Hindi	65
Sanskrit	45

Find the average number of students in each subject.

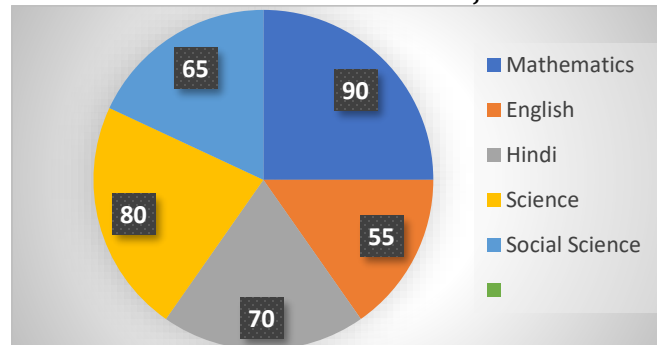
- (a) 55
- (b) 49
- (c) 42
- (d) 35

Q73. The table given below shows the production of beauty products by five different companies. What is the ratio of production of beauty product by A to the production of beauty product by E?

Companies	Production
A	30
B	50
C	32
D	15
E	25

- (a) 7 : 4
- (b) 4 : 5
- (c) 6 : 5
- (d) 5 : 6

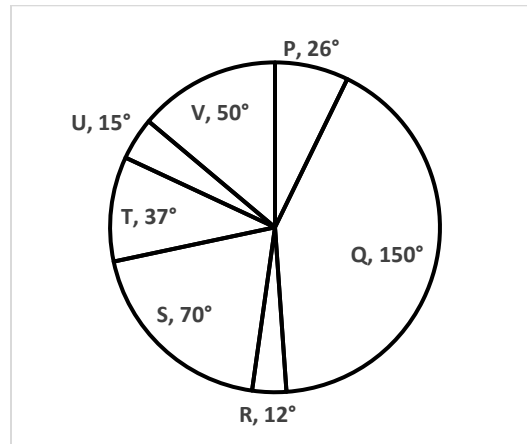
Q74. The pie - chart shows marks of a student in different subjects out of 100.



The marks scored in Hindi and Mathematics are more than the marks scored in English and Science by:

- (a) 35
- (b) 25
- (c) 20
- (d) 30

Q75. The pie chart given below shows the sales of 7 different companies. The total sales of all these 7 companies is 2160. The sale of a particular company is shown in terms of degree with respect to the total sales of all these 7 companies.



The total sales of P, R and S are how much percent less than the total sales of Q, T and U?

- (a) 56.42 percent
- (b) 24.42 percent
- (c) 46.53 percent
- (d) 32.32 percent

Q76. Select the most appropriate antonym of the given word.

Catch

- (a) Seize
- (b) Grasp
- (c) Liberate
- (d) Apprehend

Q77. In the following question, a sentence has been given in Direct or Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect or Direct speech.

She said, "How lovely the scene is!"

- (a) She exclaimed that the scene is being very lovely.
- (b) She exclaimed that the scene was very lovely.
- (c) She exclaimed that the scene must be very lovely.
- (d) She exclaimed that the scene has been very lovely.

Q78. Select the most appropriate 'one word ' for the expressions given below.

Done, occurring, or active at night.

- (a) Nocturnal
- (b) Cothurn
- (c) Adjournal
- (d) Diuturnal

Q79. Identify the segment in the sentence which contains a grammatical error.

A wisest decision one can make is to prioritize their health and well-being above all else.

- (a) A wisest decision one can make
- (b) No error
- (c) is to prioritize their health
- (d) and well-being above all else.

Q80. Four words are given, out of which only one word is spelt correctly. Choose the word with the correct spelling.

- (a) Exacarbate
- (b) Execerbate
- (c) Exacarbete
- (d) Exacerbate

Q81. Select the most appropriate option to substitute the highlighted segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

If you want to grow, you **must apply in** whatever you do.

- (a) should applied in
- (b) must apply yourself to
- (c) No improvement
- (d) ought to apply yourselves in

Q82. Select the word that is closest in meaning (SYNONYM) to the word given below.

Amiable

- (a) Desecrate
- (b) Cordial
- (c) Commemorate
- (d) Venerate

Q83. Choose the most appropriate option to change the voice (active / passive) form of the given sentence. Varun laughed at the beggar.

- (a) The beggar was being laughed at by Varun.
- (b) The beggar is laughed at by Varun.
- (c) The beggar has been laughed at by Varun.
- (d) The beggar was laughed at by Varun.

Q84. In the following question, a sentence has been given in Direct or Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect or Direct speech. The villagers said, "We have lived here for a long time."

- (a) The villagers said that they had been lived here for a long time.
- (b) The villagers said that they have lived here for a long time.
- (c) The villagers said that they have been lived there for a long time.
- (d) The villagers said that they had lived there for a long time.

Q85. In the following question, some parts of the sentence may have errors. Select the option that has the error. If the sentence has no error then select 'No Error'.

Samantha is the more talented artist in the group, but she often doubts her abilities.

- (a) but she often doubts her abilities.
- (b) No Error
- (c) artist in the group
- (d) Samantha is the more talented

Q86. The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.

The child often gets confused between the two foots when learning to walk.

- (a) when learning to walk.
- (b) between the two foots
- (c) The child often gets confused
- (d) No error

Q87. Select the most appropriate meaning of the given idiom.

"Haste makes waste"

- (a) Should, ought to, be advisable to
- (b) Angry and overcome by emotions
- (c) Doing things quickly result in a poor ending
- (d) Intelligent people think like each other

Q88. Four words are given, out of which only one word is spelt correctly. Choose the word with the correct spelling.

- (a) Fillicious
- (b) Fallacious
- (c) Fallicious
- (d) Fillacious

Q89. Select the most appropriate option to substitute the highlighted segment in the given sentence. In case no substitution is needed, select 'No substitution required'.

I requested the audience **to refrain from** speaking during the show.

- (a) to restrain to
- (b) to restrict them for
- (c) No substitution required
- (d) to remain away from

Q90. Choose the most appropriate option to change the voice (active / passive) form of the given sentence.

The government has launched a massive tribal welfare scheme in Maharashtra.

- (a) A massive tribal welfare scheme was launched by the government in Maharashtra.
- (b) A massive tribal welfare scheme had been launched by the government in Maharashtra.
- (c) A massive tribal welfare scheme has been launched by the government in Maharashtra.
- (d) A massive tribal welfare scheme had launched by the government in Maharashtra.

Directions (91-95): In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Plants are essential for human survival, not only because they produce oxygen, but also because they are a source of (1) _____. Different plants provide various nutrients that are vital for maintaining good health. For example, leafy greens like spinach are rich in (2) _____, which is important for blood health. Similarly, citrus fruits are known for their high vitamin C content, which helps in (3) _____ the immune system. Moreover, plants contain dietary fiber that aids in digestion and helps to (4) _____ the risk of chronic diseases. Therefore, incorporating a variety of plants into our diet is crucial for (5) _____ nutrition and overall well-being.

Q91. Select the most appropriate option to fill in blank number 1.

- (a) water
- (b) nutrition
- (c) shelter
- (d) warmth

Q92. Select the most appropriate option to fill in blank number 2.

- (a) iron
- (b) calcium
- (c) protein
- (d) carbohydrate

Q93. Select the most appropriate option to fill in blank number 3.

- (a) harming
- (b) weakening
- (c) boosting
- (d) diminishing

Q94. Select the most appropriate option to fill in blank number 4.

- (a) increase
- (b) reduce
- (c) develop
- (d) ignore

Q95. Select the most appropriate option to fill in blank number 5.

- (a) optimal
- (b) incomplete
- (c) deficient
- (d) insufficient

Directions (96-100): Read the given passage and answer the questions that follow.

Artificial Intelligence (AI) is revolutionizing various sectors by enabling machines to perform tasks that typically require human intelligence. From healthcare to finance, AI is transforming how industries operate. In healthcare, AI algorithms can analyze medical data to assist in diagnosing diseases and predicting patient outcomes. In finance, AI systems are used for fraud detection and algorithmic trading. One of the main features of AI is machine learning, which allows systems to learn and improve from experience without being explicitly programmed. As AI technology advances, ethical considerations such as data privacy and job displacement become increasingly important. It is crucial to address these issues to ensure the responsible development and deployment of AI.

Q96. Select the most appropriate ANTONYM of the given word.

Revolutionizing

- (a) Enhancing
- (b) Stabilizing
- (c) Transforming
- (d) Disrupting

Q97. Select the most appropriate ANTONYM of the given word.

Explicitly

- (a) Clearly
- (b) Vaguely
- (c) Accurately
- (d) Directly

Q98. Choose the most appropriate title for the passage.

- (a) The Future of Healthcare
- (b) Ethical AI
- (c) Transformative Power of AI
- (d) Machine Learning Basics

Q99. Based on your reading of the passage, choose the most appropriate option that describes the word 'algorithm'.

- (a) A complex medical condition
- (b) A systematic procedure for solving a problem
- (c) A type of computer hardware
- (d) A healthcare professional

Q100. According to the passage, which sector is NOT mentioned as being transformed by AI?

- (a) Healthcare
- (b) Finance
- (c) Education
- (d) Fraud detection

Solutions

S1. Ans.(d)

Sol. The correct answer is (d) Kathak.

Birju Maharaj is a renowned Indian dancer and guru, best known for his expertise in Kathak, a classical dance form that originated in northern India. Kathak is characterized by intricate footwork, expressive gestures, spins, and the dramatic portrayal of stories through dance. Birju Maharaj has played a significant role in popularizing Kathak globally and has been a recipient of numerous awards, including the Padma Vibhushan.

S2. Ans.(c)

Sol. The correct answer is (c) Humayun and Sher Shah Suri.

The Battle of Kannauj, also known as the Battle of Bilgram, was fought in 1540 between the Mughal Emperor Humayun and Sher Shah Suri, the founder of the Suri Empire. This battle was a decisive conflict in which Sher Shah Suri emerged victorious, leading to Humayun's temporary exile from India. Sher Shah Suri's victory at Kannauj established his dominance in northern India and marked the beginning of his short-lived but impactful rule.

S3. Ans.(c)

Sol. The correct answer is (c) Article 21.

The Right to Privacy in India is derived from Article 21 of the Indian Constitution, which guarantees the right to life and personal liberty. The Supreme Court of India, in the landmark judgment of Justice K.S. Puttaswamy v. Union of India in 2017, declared that the Right to Privacy is a fundamental right protected under Article 21. This judgment has far-reaching implications for individual privacy and data protection in India.

S4. Ans.(b)

Sol. The correct answer is (b) Bahlul Lodi.

Bahlul Lodi was the founder of the Lodi Dynasty, the last dynasty to rule the Delhi Sultanate. He ascended to power in Delhi in 1451 after overthrowing the last ruler of the Sayyid Dynasty. Bahlul Lodi's reign marked the beginning of Lodi rule in northern India, which continued until the defeat of his grandson Ibrahim Lodi by Babur at the Battle of Panipat in 1526.

S5. Ans.(c)

Sol. The correct answer is (c) Bricks.

The Great Bath of Mohenjo-Daro, an iconic structure of the Indus Valley Civilization, was constructed using finely fitted bricks. This large, public bathing structure, measuring approximately 12 meters by 7 meters, is one of the earliest examples of water management in ancient civilizations. The use of bricks, along with a sophisticated drainage system, highlights the advanced engineering and urban planning skills of the people of Mohenjo-Daro.

S6. Ans.(c)

Sol. The correct answer is (c) R.A. Gopalaswami.

R.A. Gopalaswami was the Census Commissioner of India for the first census conducted after India's independence in 1951. His leadership and organizational skills were crucial in successfully conducting the census, which provided essential demographic data for the newly independent nation. The 1951 Census laid the foundation for future censuses and statistical analyses in India.

S7. Ans.(b)

Sol. The correct answer is (b) Poverty estimation.

The Suresh Tendulkar Committee was established to review and redefine the methodology for estimating poverty in India. The committee recommended a new poverty line that takes into account expenditure on health and education, in addition to food, clothing, and shelter. These recommendations were aimed at providing a more accurate and comprehensive measure of poverty, reflecting the changes in the cost of living and the needs of the population.

S8. Ans.(c)

Sol. The correct answer is (c) 3 years.

PM-Ujjwala Yojana:

- The Pradhan Mantri Ujjwala Yojana (PMUY) has been extended by three years.
- This extension aims to continue providing LPG connections to additional households, thereby enhancing the reach and benefits of the scheme.
- The scheme was launched in 2016 with the goal of providing clean cooking fuel to women from Below Poverty Line (BPL) households.

Key Points:

- **Initial Launch Year:** 2016
- **Objective:** To provide 8 crore LPG connections to BPL households.
- **Current Extension:** 3 years from its earlier deadline to further cover more beneficiaries.

S9. Ans.(d)

Sol. The correct answer is (d) Shah Jahan.

Shah Jahan, the fifth Mughal emperor, was imprisoned by his son Aurangzeb. Aurangzeb usurped the throne from his father and confined him in the Agra Fort until his death. Shah Jahan is renowned for commissioning the Taj Mahal, a mausoleum for his beloved wife Mumtaz Mahal, which remains one of the most iconic monuments in the world.

S10. Ans.(d)

Sol. The correct answer is (d) Shooting.

In shooting sports, the term "bullseye" refers to the center of the target, which scores the highest points when hit. It is the most desirable target area for shooters aiming to achieve the maximum score.

S11. Ans.(b)

Sol. The correct answer is (b) Karnataka.

Yakshagana is a traditional theater form that combines dance, music, and dialogue, primarily associated with the state of Karnataka. It features elaborate costumes, vibrant makeup, and dynamic storytelling, often based on Hindu epics like the Mahabharata and Ramayana. Yakshagana performances are known for their dramatic flair and are an integral part of Karnataka's cultural heritage.

S12. Ans.(c)

Sol. The correct answer is (c) Wind speed.

An anemometer is an instrument used to measure wind speed and is commonly used in meteorology and weather forecasting. It typically consists of rotating cups or blades that capture the wind, allowing for the calculation of its speed. Anemometers provide critical data for understanding weather patterns and are essential tools in both scientific research and practical applications like aviation and sailing.

S13. Ans.(c)

Sol. The correct answer is (c) Rohit Sharma.

Rohit Sharma holds the record for the highest individual score in a One Day International (ODI) match, scoring 264 runs against Sri Lanka in 2014. This remarkable innings showcased his exceptional batting skills and placed him among the elite cricketers in the world. Rohit Sharma's record-breaking performance remains a highlight in the history of ODI cricket.

S14. Ans.(a)

Sol. The correct answer is (a) Meghaduta.

Kalidasa, one of the greatest Sanskrit poets and playwrights, wrote "Meghaduta" (The Cloud Messenger). This lyric poem tells the story of a Yaksha (a celestial being) who, exiled by his master, sends a message to his wife through a cloud. "Meghaduta" is celebrated for its poetic beauty and emotional depth, making it a masterpiece of classical Sanskrit literature.

S15. Ans.(c)

Sol. The correct answer is (c) Mitochondria.

Mitochondria are known as the powerhouse of the cell because they generate most of the cell's supply of adenosine triphosphate (ATP), which is used as a source of chemical energy. These organelles are essential for energy production and play a critical role in cellular respiration, enabling cells to perform various functions necessary for life.

S16. Ans.(c)

Sol. The correct answer is (c) Telangana.

Bonalu is a traditional Hindu festival celebrated in the state of Telangana, particularly in Hyderabad and Secunderabad. The festival involves offering meals to the goddess Mahakali, along with processions, dancing, and other cultural activities. Bonalu reflects the rich cultural heritage of Telangana and is a significant event in the region's religious calendar.

S17. Ans.(a)

Sol. The correct answer is (a) Rabindranath Tagore.

Rabindranath Tagore returned his Knighthood in 1919 as a protest against the Jallianwala Bagh Massacre. The massacre, which took place on April 13, 1919, involved the killing of hundreds of unarmed Indian civilians by British troops under General Dyer's command. Tagore's act of returning the honor was a powerful statement against British colonial rule and its atrocities in India.

S18. Ans.(d)

Sol. The correct answer is (d) 12 months

According to Article 83(2) of the Indian Constitution, the normal term of the Lok Sabha is five years. However, during a national emergency, the term can be extended.

The term of the Lok Sabha may be extended by up to one year at a time during a proclamation of emergency.

National Emergency: Declared under Article 352 of the Constitution.

S19. Ans.(c)

Sol. The correct answer is (c) 1950.

The Supreme Court of India was established on January 26, 1950, with the coming into force of the Constitution of India. This date marks the legal establishment of the Supreme Court. The inaugural session of the Supreme Court, marking the commencement of its functioning, was held on January 28, 1950, in the Chamber of Princes in the old Parliament building.

S20. Ans.(b)

Sol. The correct answer is (b) 1920.

The Non-cooperation Movement, led by Mahatma Gandhi, started in 1920. It was a significant part of the Indian independence struggle, urging Indians to withdraw their cooperation from the British government by boycotting British goods, institutions, and services. The movement aimed to achieve self-governance and swaraj (self-rule) for India through non-violent means.

S21. Ans.(b)

Sol. The correct answer is (b) Article 368.

Article 368 of the Indian Constitution deals with the power of Parliament to amend the Constitution and its procedure. This article outlines the process for making changes to the Constitution, ensuring that amendments are made through a formal and structured legislative process. It provides the flexibility needed to adapt the Constitution to changing circumstances while maintaining its fundamental principles.

S22. Ans.(b)

Sol. The correct answer is (b) Animal Farm.

"Animal Farm" is a novella by George Orwell, published in 1945. It is an allegorical and satirical tale about the events leading up to the Russian Revolution and the early Soviet Union. The story uses farm animals to depict the rise of totalitarianism and the corruption of ideals, making it a powerful critique of political systems and power dynamics.

S23. Ans.(c)

Sol. The correct answer is (c) Ajanta Caves.

The Ajanta Caves are a UNESCO World Heritage Site located in Maharashtra, India. These rock-cut caves, dating back to the 2nd century BCE, contain remarkable Buddhist paintings and sculptures. The Ajanta Caves are renowned for their exquisite murals and intricate carvings, representing a significant achievement in ancient Indian art and architecture.

S24. Ans.(b)

Sol. The correct answer is (b) Direct Benefit Transfer for LPG subsidies.

The PAHAL (Pratyaksha Hastaantarit Laabh) Scheme, also known as the Direct Benefit Transfer for LPG (DBTL) subsidy scheme, aims to directly transfer the subsidy amount for LPG cylinders into the bank accounts of beneficiaries. This scheme reduces leakage, ensures that subsidies reach the intended recipients, and promotes transparency in the distribution of LPG subsidies, thereby enhancing the efficiency of the subsidy system.

S25. Ans.(b)

Sol. The correct answer is (b) Divine Tides.

Ricky Kej, an acclaimed Indian music composer, won the Grammy Award for his album "Divine Tides." This album is a collaboration with the renowned drummer Stewart Copeland of The Police. "Divine Tides" showcases a blend of Indian classical music with a contemporary twist, highlighting environmental consciousness and world harmony.

S26. Ans.(d)

Sol. The correct answer is (d) Kathak.

Birju Maharaj is a renowned Indian dancer and guru, best known for his expertise in Kathak, a classical dance form that originated in northern India. Kathak is characterized by intricate footwork, expressive gestures, spins, and the dramatic portrayal of stories through dance. Birju Maharaj has played a significant role in popularizing Kathak globally and has been a recipient of numerous awards, including the Padma Vibhushan.

S27. Ans.(c)

Sol. The correct answer is (c) Humayun and Sher Shah Suri.

The Battle of Kannauj, also known as the Battle of Bilgram, was fought in 1540 between the Mughal Emperor Humayun and Sher Shah Suri, the founder of the Suri Empire. This battle was a decisive conflict in which Sher Shah Suri emerged victorious, leading to Humayun's temporary exile from India. Sher Shah Suri's victory at Kannauj established his dominance in northern India and marked the beginning of his short-lived but impactful rule.

S28. Ans.(c)

Sol. The correct answer is (c) Article 21.

The Right to Privacy in India is derived from Article 21 of the Indian Constitution, which guarantees the right to life and personal liberty. The Supreme Court of India, in the landmark judgment of Justice K.S. Puttaswamy v. Union of India in 2017, declared that the Right to Privacy is a fundamental right protected under Article 21. This judgment has far-reaching implications for individual privacy and data protection in India.

S29. Ans.(b)

Sol. The correct answer is (b) Bahlul Lodi.

Bahlul Lodi was the founder of the Lodi Dynasty, the last dynasty to rule the Delhi Sultanate. He ascended to power in Delhi in 1451 after overthrowing the last ruler of the Sayyid Dynasty. Bahlul Lodi's reign marked the beginning of Lodi rule in northern India, which continued until the defeat of his grandson Ibrahim Lodi by Babur at the Battle of Panipat in 1526.

S30. Ans.(c)

Sol. The correct answer is (c) Bricks.

The Great Bath of Mohenjo-Daro, an iconic structure of the Indus Valley Civilization, was constructed using finely fitted bricks. This large, public bathing structure, measuring approximately 12 meters by 7 meters, is one of the earliest examples of water management in ancient civilizations. The use of bricks, along with a sophisticated drainage system, highlights the advanced engineering and urban planning skills of the people of Mohenjo-Daro.

S31. Ans.(c)

Sol. The correct answer is (c) R.A. Gopaldaswami.

R.A. Gopaldaswami was the Census Commissioner of India for the first census conducted after India's independence in 1951. His leadership and organizational skills were crucial in successfully conducting the census, which provided essential demographic data for the newly independent nation. The 1951 Census laid the foundation for future censuses and statistical analyses in India.

S32. Ans.(b)

Sol. The correct answer is (b) Poverty estimation.

The Suresh Tendulkar Committee was established to review and redefine the methodology for estimating poverty in India. The committee recommended a new poverty line that takes into account expenditure on health and education, in addition to food, clothing, and shelter. These recommendations were aimed at providing a more accurate and comprehensive measure of poverty, reflecting the changes in the cost of living and the needs of the population.

S33. Ans.(c)

Sol. The correct answer is (c) 3 years.

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S51. Ans.(c)

Divisibility rule of 11 = If the difference of the sum of alternative digits of a number is either 0 or divisible by 11, then that number is completely divisible by 11.

Let the integer in the blank space be y

The number is 646y45

Finding difference of alternate digit = $6 + 6 + 4 - (4 + Y + 5) = 0$

$$\Rightarrow 16 - y - 9 = 0$$

$$\Rightarrow 7 - y = 0$$

$$\Rightarrow y = 7$$

S52. Ans.(a)

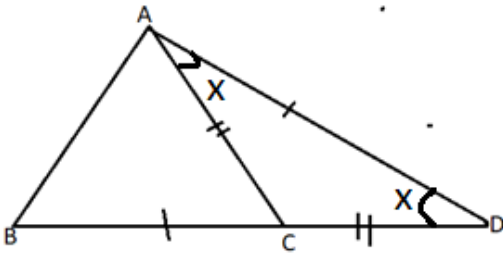
Sol. Given:

CD = AC, AD = BD and AB = AC

Concept Used:

The Sum of complementary angles is 180°

Sum of the two internal angle is equal to the external angle



Let $\angle ADC = \angle CAD = x$

Then $\angle ACB =$ Sum of the two internal angle is equal to the external angle $= x + x = 2x$

$\angle ABC = \angle ACB = 2x$

In $\triangle ABC$

$2x + 2x + \angle BAC = 180^\circ$

$\angle BAC = 180 - 4x$

So $\angle BAD = 180 - 4x + x$

If $BD = AD$

Then, $\angle ABC = \angle BAD = 180 - 3x$

In $\triangle ABD$

$180 - 3x + 180 - 3x + x = 180$

$x = 36^\circ$

S53. Ans.(b)

Sol. Total discount from successive discount of 10% and 20% $= 10 + 20 - \frac{20 \times 10}{100} = 28\%$

$$\frac{CP}{MP} = \frac{100 - D}{100 + P} = \frac{100 - 28}{100 + 44} = \frac{72}{144} = \frac{1}{2}$$

Let the MP = 200 and CP = 100

then SP = 144

A.T.Q If the gives the discount of 15%

then, $SP = 200 \times \frac{(100 - 15)}{100} = 170$

Therefore $\frac{170 - 100}{100} \times 100 = 70\%$

S54. Ans.(a)

Sol. Total % increase of 10%

$$= 10 + 5 + \frac{10 \times 5}{100} = \frac{31}{2} \%$$

Again % increase of $\frac{31}{2} \%$ and 15%

$$= \frac{31}{2} + 15 + \frac{\frac{31}{2} \times 15}{100} = \frac{1313}{40} \%$$
 Or $32 \frac{33}{40} \%$

S55. Ans.(c)

Sol. S.I = Time \times Rate

$$\left. \begin{aligned} SI_1 &= 3 \times 14\% = 42\% \\ SI_2 &= 5 \times 14\% = 70\% \end{aligned} \right) + 28\% \rightarrow 4200 \text{ Rs.}$$

$$100\% \rightarrow 15000 \text{ Rs.}$$

The sum = Rs. 15000

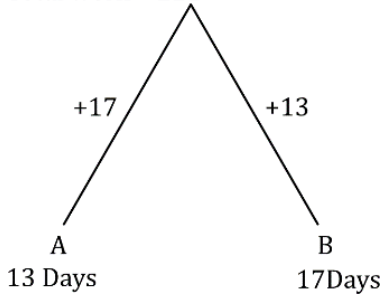
S56. Ans.(d)**Sol.** According to question,

$$60 \times 90\% = (60 + x)75\%$$

$$x = 72 - 60 = 12 \text{ liter}$$

S57. Ans.(c)**Sol.**

Total work = 221



A- 1 day - 17

B- 1 day- 13

-

2 days - 30

14 days - 210

 $14\frac{11}{17}$ days - 221
S58. Ans.(c)**Sol.** Volume of cube = volume of cuboid

$$a^3 = l \times b \times h$$

$$a^3 = 12 \times 18 \times 27$$

$$a^3 = 2 \times 2 \times 3 \times 3 \times 3 \times 2 \times 3 \times 3 \times 3$$

$$a = \sqrt[3]{2^3 \times 3^6}$$

$$a = 2 \times 3 \times 3 \Rightarrow 18$$

Surface area = cuboid : cube

$$= 2(lb + bh + lh) : 6a^2$$

$$= lb + bh + lh : 3a^2$$

$$= 12 \times 18 + 18 \times 27 + 27 \times 12 : 3 \times 18 \times 18$$

$$= 1026 : 3 \times 18 \times 18$$

$$= 19 : 18$$

S59. Ans.(a)**Sol.** CP of first cow = $\frac{15640}{115} \times 100 = 13600$ CP of second cow = $\frac{15640}{85} \times 100 = 18400$

Total CP = 32000

Total SP = 31280

Loss = Rs. 32000 - 31280 = Rs. 720

S60. Ans.(c)**Sol.** Up Down

Time 3 : 1

Speed 1 : 3

$$\text{Speed of boat} = \frac{1}{2}(u + d) = 2 \text{ ----- } \frac{16}{3} \text{ km/h}$$

$$\text{Speed of stream} = \frac{1}{2}(d - u) = 1 \text{ ----- } \frac{8}{3} \text{ km/h}$$

$$\frac{8}{3} \times \frac{5}{18} = \frac{20}{27} \text{ m/sec}$$

S61. Ans.(d)**Sol.**

$$9 \times \frac{2}{3 \times 24} - \frac{3}{2} \times (-1) \times 2 + \frac{3}{3 \times 5}$$

$$\frac{1}{4} + 3 + \frac{1}{5} = \frac{69}{20}$$

S62. Ans.(c)**Sol.** The sum of the age of 10 students and their teacher is = $11 \times 17 = 187$ yearsThe sum of the age of 10 students = $10 \times (17 - 2) = 150$ years

Now,

The age of teacher = $187 - 150 = 37$ years**S63. Ans.(a)**

To find the time after which all three runners will be at the starting point together, we need to find the least common multiple (LCM) of their lap times.

$$12 = 2^2 \times 3$$

$$15 = 3 \times 5$$

$$20 = 2^2 \times 5$$

The time they will meet first time = $2^2 \times 3 \times 5 = 60$

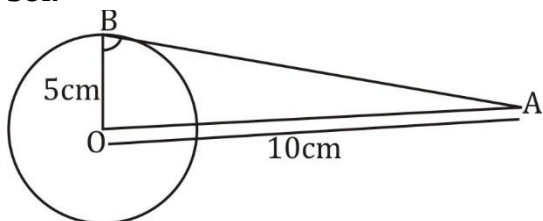
Therefore, the runners A, B, and C will all be at the starting point together again after 60 minutes.

S64. Ans.(a)**Sol.** $R = 4$ cm $r = 1$ cm

$$\text{volume of hollow sphere} = \frac{4}{3}\pi R^3 - \frac{4}{3}\pi r^3$$

$$= \frac{4}{3}\pi 4^3 - \frac{4}{3}\pi 1^3$$

$$= 84 \pi \text{ cm}^3$$

S65. Ans.(d)**Sol.**

In triangle AOB, $\angle OBA = 90^\circ$

$$AB = \sqrt{100 - 25}$$

$$AB = \sqrt{75}$$

$$= 5\sqrt{3} \text{ cm}$$

S66. Ans.(c)

$$\text{Sol. } A = P \left(1 + \frac{R}{100} \right)^2$$

$$A = 4000 \times \left(\frac{106}{100} \times \frac{106}{100} \right) = \$44,94.40$$

S67. Ans.(a)

$$\text{Sol. } a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca)$$

$$(a^2 + b^2 + c^2 - ab - bc - ca) = \frac{85-75}{5} = \frac{10}{5} = 2$$

S68. Ans.(b)

Sol. A.T.Q,

$$\sin \theta - \cos \theta = k \dots\dots\dots \text{equation (1)}$$

$$\sin \theta + \cos \theta = \frac{\sqrt{11}}{3} \dots\dots\dots \text{Equation (2)}$$

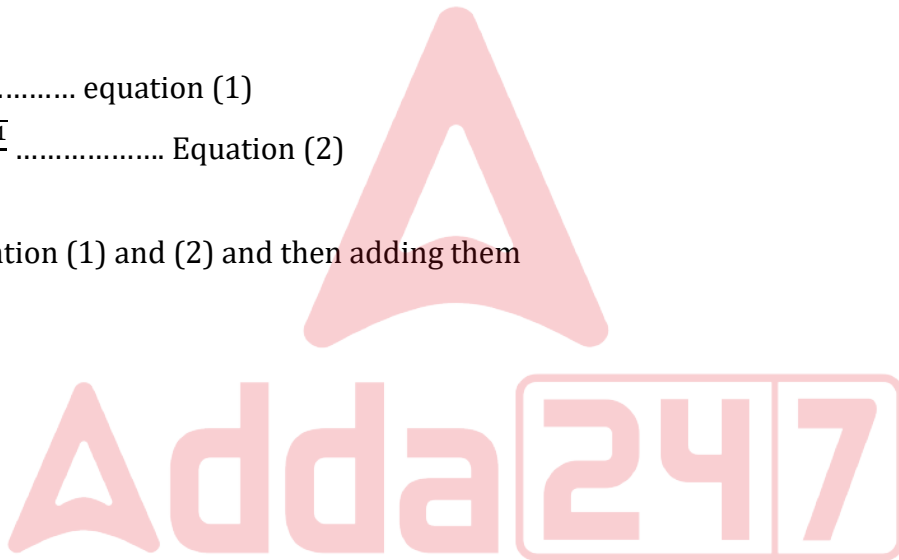
So,

after squaring equation (1) and (2) and then adding them

$$2 = \frac{11}{9} + k^2$$

$$2 = \frac{11}{9} + k^2$$

$$K = \frac{\sqrt{7}}{3}$$



S69. Ans.(a)

$$\text{Sol. } a - b = 2 \quad a^3 - b^3 = 80 \quad ab = ?$$

$$(a - b)(a^2 + b^2 + ab) = 80$$

$$a^2 + b^2 - 2ab = 4 \dots\dots (2) \quad a^2 + b^2 + ab = 40 \dots\dots (1)$$

$$a^2 + b^2 + ab = 40$$

$$a^2 + b^2 - 2ab = 4$$

$$\begin{array}{r} - \quad - \quad + \quad = \quad - \\ \hline \end{array}$$

$$3ab = 36$$

$$ab = 12$$

S70. Ans.(b)

$$\text{Sol. } (\sin 30^\circ \cdot \cos 60^\circ - \cos 30^\circ \sin 60^\circ)$$

$$= \frac{1}{2} \times \frac{1}{2} - \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2} = \frac{1}{4} - \frac{3}{4} = \frac{-1}{2}$$

From option (b) - $\sin 30^\circ = \frac{-1}{2}$

S71. Ans.(b)**Sol.** If $\tan A \cdot \tan B = 1$, then $A + B = 90^\circ$

$$\tan 3\theta \cdot \tan 7\theta = 1$$

using above identity

$$3\theta + 7\theta = 90^\circ$$

$$\theta = 9^\circ$$

$$\cot 15\theta = \cot (15 \times 9^\circ) = \cot 135^\circ = \cot (180^\circ - 45^\circ) = -\cot 45^\circ = -1$$

S72. Ans.(b)

Sol. Average = $\frac{45+60+30+65+45}{5} = \frac{245}{5} = 49$

S73. Ans.(c)**Sol.** Product of A : Product of E

$$30 : 25$$

$$6 : 5$$

S74. Ans.(b)**Sol.** Marks scored in Hindi and Mathematics = $90 + 70 = 160$ Marks scored in English and Science = $55 + 80 = 135$ Marks scored in Hindi and Mathematics are more than the marks scored in English and Science by = $160 - 135 = 25$ **S75. Ans.(c)****Sol.**

$$P + R + S = 108$$

$$Q + T + U = 202$$

$$= \frac{94}{202} \times 100 = 46.53\%$$

S76. Ans.(c)**Sol.** The most appropriate antonym of the word "catch" is "liberate."

- "Catch" means to capture or seize something.
- "Liberate" means to set free or release.
- Synonyms: Seize, Grasp, Capture, Apprehend.
- Antonyms: Release, Free, Let go, **Liberate**.

Meanings of other given words:

- "Seize" means to take hold of suddenly and forcibly.
- "Grasp" means to take and hold something firmly.
- "Apprehend" means to arrest or capture someone, typically a criminal.

S77. Ans.(b)**Sol.** The correct answer is option b.

- The given sentence is 'Direct Speech'.
- Direct Speech - Reporting the message of the speaker in the exact words as spoken by him.
- The given sentence is an 'Exclamatory Sentence.'
- Exclamatory Sentence - Exclamatory sentences express a sudden outburst of some emotions such as joy, sorrow, contempt, regret, surprise etc.

- While changing it into an indirect form, we consider following rules.
- Tense- Present simple (Subject + V1st + Object) changes to Past simple (Subject + V2 + Object)
- Reported Verb- 'Said' changes to 'Exclaimed.'
- The sentence thus formed is - She exclaimed that the scene was very lovely.

S78. Ans.(a)

Sol. The most appropriate 'one word' for something that is done, occurring, or active at night is option (a) Nocturnal. The word 'nocturnal' specifically refers to activities or behaviors that take place during the night.

- The meanings of the other options are as follows:
- Cothurn: This does not relate to night-time activities. It refers to a type of ancient Greek or Roman boot, often used in tragic plays.
- Adjournal: This term is not related to time of day; it's a legal term related to adjournment.
- Diuturnal: This term is related to duration, particularly long duration, and is not specific to night-time activities.

S79. Ans.(a)

Sol. The segment "A wisest decision one can make" contains a grammatical error. The correct phrase should be "The wisest decision one can make." The superlative form "wisest" should be preceded by "the" rather than "a."

S80. Ans.(d)

Sol. The word with the correct spelling is (d) Exacerbate. "Exacerbate" means to make a situation worse or more severe.

S81. Ans.(b)

Sol. The most appropriate option to substitute the highlighted segment in the given sentence is (b) must apply yourself to. The corrected sentence should read: "If you want to grow, you must apply yourself to whatever you do."

The phrase "apply yourself to" correctly conveys the meaning of putting effort or dedicating oneself to a task or activity, which is the intended message of the sentence.

S82. Ans.(b)

Sol. The word closest in meaning (synonym) to "Amiable" is "Cordial."

- "Amiable" means having a friendly and pleasant manner.
- "Cordial" means warm and friendly in a way that makes people feel comfortable.
- Antonyms: Unfriendly, Hostile, Aloof, Antagonistic.
- Synonyms: Friendly, Affable, **Cordial**, Genial, Pleasant.

The meanings of the other options are:

- "Desecrate" means to treat a sacred place or thing with violent disrespect, typically by damaging, defiling, or violating its sanctity.
- Commemorate: To remember and show respect for someone or something in a ceremony.
- Venerate: To regard or treat with deep respect; to revere.

S83. Ans.(d)

Sol. The correct answer is option d.

- The given sentence is of 'Active voice'.
- The sentence is said to be in active voice when 'Subject' is active & does something.
- In the given sentence, the subject is 'Varun' and the subject performs some action related to the subject.
- (Laughed at the beggar)
- Now we have to convert it into passive voice.
- Passive voice – If the sentence is in passive form, the subject remains inactive. It does nothing, but allows something to be done.
- In the passive form, the object of the verb in Active voice becomes the subject of the verb in the Passive voice. 'By' is introduced as now the subject receives the action by the object.
- The given sentence is in simple past Tense.
- Structure in Active voice - Subject + V2+ object.
- Structure in Passive voice - Object+ was/were V3+ by + subject.
- The sentence thus formed is - The beggar was laughed at by Varun.

S84. Ans.(d)

Sol. The correct answer is option d.

- The given sentence is 'Direct Speech'.
- Direct Speech - Reporting the message of the speaker in the exact words as spoken by him.
- The given sentence is an 'Assertive Sentence.'
- Sentences that make a statement are called assertive sentences. These sentences may be positive, negative, false, or true statements.
- While changing it into an indirect form, we consider following rules.
- Reported Verb– 'Said' remains unchanged.
- Conjunction – In the Assertive sentence conjunction 'That' is used.
- The sentence thus formed is - The villagers said that they had lived there for a long time.

S85. Ans.(d)

Sol. The segment "Samantha is the more talented" contains a grammatical error. The correct phrase should be "Samantha is the most talented" because "the most talented" is used to indicate the highest degree of comparison among all members of the group.

- In this sentence, we are comparing Samantha to the entire group, which consists of more than two people. Therefore, we should use the superlative form "the most talented" rather than the comparative form "the more talented."

S86. Ans.(b)

Sol. The part of the sentence that has an error is (b) "between the two foots."

- The correct phrase should be "between the two feet," with "feet" being the plural form of "foot."
- "Foot" is singular, and "feet" is its plural form.
- The sentence describes confusion between two instances of feet while learning to walk, so the correct plural form "feet" should be used instead of "foots."
- Therefore, the corrected sentence would be: "The child often gets confused between the two feet when learning to walk."

S87. Ans.(c)

Sol. The idiom "Haste makes waste" means that rushing too quickly often results in mistakes or poor outcomes. The phrase emphasizes that taking more time to do something often results in a better result than doing it too quickly and having to redo it.

S88. Ans.(b)

Sol. The word with the correct spelling among the options is option (b) Fallacious: This means based on a mistaken belief or deceptive, misleading.

S89. Ans.(c)

Sol. The highlighted segment in the sentence "I requested the audience to refrain from speaking during the show." is correctly phrased, and no substitution is required.

S90. Ans.(c)

Sol. The correct answer is option c.

- The given sentence is in Present Perfect Tense.
- Structure in Active voice- Subject + has/have+ v3+ object.
- Structure in Passive voice- Object+ has/have+ been+ V3+ by + subject.
- The sentence thus formed is - A massive tribal welfare scheme has been launched by the government in Maharashtra.

S91. Ans.(b)

Sol. The word that can be filled in the blank is 'nutrition' to make the sentence grammatically and contextually correct.

- 'Nutrition' refers to the process of providing or obtaining the food necessary for health and growth.
- As per the context, the word 'nutrition' fits in very well & hence, it is the correct option.

Meanings of other given words:

- Water - a transparent, odorless, tasteless liquid that forms the seas, lakes, rivers, and rain.
- Shelter - a place giving temporary protection from bad weather or danger.
- Warmth - the quality, state, or sensation of being warm; moderate and comfortable heat.
- Thus, all the other given words have different meanings and do not fit in the context of the sentence.

S92. Ans.(a)

Sol. The word that can be filled in the blank is 'iron' to make the sentence grammatically and contextually correct.

- 'Iron' is a mineral that is vital for the proper function of hemoglobin, a protein needed to transport oxygen in the blood.
- As per the context, the word 'iron' fits in very well & hence, it is the correct option.

Meanings of other given words:

- Calcium - a mineral found in many foods, necessary for maintaining strong bones and teeth.
- Protein - a nutrient that is a vital component of every cell in the body, important for growth and repair.
- Carbohydrate - an organic compound, such as sugar or starch, that provides energy to living cells.
- Thus, all the other given words have different meanings and do not fit in the context of the sentence.

S93. Ans.(c)

Sol. The word that can be filled in the blank is 'boosting' to make the sentence grammatically and contextually correct.

- 'Boosting' means to improve or increase something.
- As per the context, the word 'boosting' fits in very well & hence, it is the correct option.

Meanings of other given words:

- Harming - causing physical injury to something.
- Weakening - making or becoming weaker in power, resolve, or physical strength.
- Diminishing - making or becoming less.
- Thus, all the other given words have different meanings and do not fit in the context of the sentence.

S94. Ans.(b)

Sol. The word that can be filled in the blank is 'reduce' to make the sentence grammatically and contextually correct.

- 'Reduce' means to make smaller or less in amount, degree, or size.
- As per the context, the word 'reduce' fits in very well & hence, it is the correct option.

Meanings of other given words:

- Increase - to become or make greater in size, amount, or degree.
- Develop - to grow or cause to grow and become more mature, advanced, or elaborate.
- Ignore - to refuse to take notice of or acknowledge; disregard intentionally.
- Thus, all the other given words have different meanings and do not fit in the context of the sentence.

S95. Ans.(a)

Sol. The word that can be filled in the blank is 'optimal' to make the sentence grammatically and contextually correct.

- 'Optimal' means best or most effective.
- As per the context, the word 'optimal' fits in very well & hence, it is the correct option.

Meanings of other given words:

- Incomplete - not having all the necessary or appropriate parts.
- Deficient - not having enough of a specified quality or ingredient.
- Insufficient - not enough; inadequate.
- Thus, all the other given words have different meanings and do not fit in the context of the sentence.

S96. Ans.(b)

Sol. The antonym of "revolutionizing" is "stabilizing."

- "Stabilizing" means making something more stable or consistent, which is the opposite of bringing about significant change or revolutionizing.

Meanings of other given words:

- Enhancing - improving the quality or value of something.
- Transforming - making a thorough or dramatic change in form, appearance, or character.
- Disrupting - causing disorder or turmoil in a system.
- Thus, all the other given words have different meanings and do not fit as antonyms for "revolutionizing."

S97. Ans.(b)

Sol. The antonym of "explicitly" is "vaguely."

- "Vaguely" means in a way that is not clear or definite, which is the opposite of being clear and detailed (explicitly).

Meanings of other given words:

- Clearly - in a way that is easy to see, hear, or understand.
- Accurately - in a way that is correct and without any mistakes.
- Directly - without anything or anyone in between.
- Thus, all the other given words have different meanings and do not fit as antonyms for "explicitly."

S98. Ans.(c)

Sol. The most appropriate title for the passage is "Transformative Power of AI."

- The passage discusses how AI is revolutionizing various sectors and its transformative impact.

S99. Ans.(b)

Sol. An "algorithm" is a systematic procedure for solving a problem.

- In the context of AI, algorithms are sets of rules or steps used to solve problems and make decisions.

S100. Ans.(c)

Sol. The sector "Education" is NOT mentioned as being transformed by AI in the passage.

- The passage specifically mentions healthcare, finance, and fraud detection as sectors being transformed by AI.

