

IBPS Clerk Mains 2024 Memory Based Question Paper and Answer Key PDF

Ques. 1. In August 2024, RBI approved Tata Capital Limited's conversion from an NBFC-core investment company (CIC) into which type of company?

1. NBFC-microfinance company (MFC)
2. NBFC-asset finance company (AFC)
3. NBFC-investment credit company (ICC)
4. NBFC-leasing finance company (LFC)
5. NBFC-factoring company (FC)

Correct Option - 3

Ques. 2. Which listed public sector insurers remain designated by IRDAI as Domestic Systemically Important Insurers (D-SIIs)?

1. Life Insurance Corporation of India (LIC)
 2. General Insurance Corporation of India (GIC Re)
 3. United India Insurance Company
 4. New India Assurance Company
1. 1, 2, and 3 only
 2. 2, 3, and 4 only
 3. 1, 2, and 4 only
 4. 1 and 2 only
 5. 1, 3, and 4 only

Correct Option - 3

Ques. 3. NPCI established NBSL as a wholly owned subsidiary. What does 'B' represent in NBSL? (August 2024)

1. Bharat
2. Banking
3. Business
4. Blockchain
5. BHIM

Correct Option - 5

Ques. 4. Which institution approved a \$1.5-billion loan for India's low-carbon energy development, including green hydrogen, electrolyzers and renewable energy? (June 2024)

1. World Bank
2. International Monetary Fund
3. Asian Development Bank
4. United Nations Development Programme
5. European Investment Bank

Correct Option - 1

Ques. 5. RBI raised the bulk fixed-deposit threshold for Scheduled Commercial Banks and Small Finance Banks to ₹3 crore. What was the earlier threshold?

1. ₹1 crore
2. ₹1.5 crore
3. ₹2 crore
4. ₹2.25 crore
5. ₹2.5 crore

Correct Option - 3

Ques. 6. With which institution did India sign a \$200 million (about Rs 1,700 crore) loan to improve solid waste management and sanitation in 100 cities across eight states? (July 2024)

1. World Bank
2. Asian Infrastructure Investment Bank (AIIB)
3. International Monetary Fund (IMF)
4. Asian Development Bank (ADB)
5. European Investment Bank (EIB)

Correct Option - 4

Ques. 7. In which listed city is the Financial Action Task Force (FATF) headquartered?

1. Washington D.C., USA
2. Geneva, Switzerland
3. Paris, France
4. London, United Kingdom
5. Brussels, Belgium

Correct Option - 3

Ques. 8. Which theme marked India's first National Space Day on August 23, 2024, commemorating Chandrayaan-3's Vikram Lander landing?

1. Exploring the Lunar Surface: A Journey to the Moon and Beyond
2. India's Moon Mission: Celebrating New Frontiers in Space Exploration
3. Touching Lives while Touching the Moon: India's Space Saga
4. Space for National Progress: Advancing Technology and Innovation
5. India's Leap in Space Exploration: From Earth to the Moon

Correct Option - 3

Ques. 9. What per-transaction limit for UPI Lite did RBI announce in October 2024?

1. ₹500
2. ₹1,000
3. ₹2,000
4. ₹5,000
5. ₹10,000

Correct Option - 2

Ques. 10. Which listed country falls outside the five most competitive economies in IMD's 2024 Global Competitiveness Ranking?

1. Singapore
2. Switzerland
3. Denmark
4. Ireland
5. China

Correct Option - 5

Ques. 11. Which bank partnered with Tata Power Solar Systems Ltd to finance solar units for residential and corporate customers? (August 2024)

1. HDFC Bank
2. Axis Bank
3. ICICI Bank
4. State Bank of India
5. Kotak Mahindra Bank

Correct Option - 3

Ques. 12. ABHA, part of the Ayushman Bharat Digital Mission, enables people to link and manage digital health records. How many digits does an individual's unique ABHA number contain?

1. 10
2. 12
3. 14
4. 16
5. 18

Correct Option - 3

Ques. 13. In which Indian state is the post-harvest bull race Maramadi, also called Kalappoottu or Pothottam, held?

1. Tamil Nadu
2. Karnataka
3. Kerala
4. Andhra Pradesh
5. Maharashtra

Correct Option - 3

Ques. 14. In which state are the headquarters of the Animal Welfare Board of India (AWBI)?

1. Uttar Pradesh
2. Maharashtra
3. Tamil Nadu
4. Haryana
5. Karnataka

Correct Option - 4

Ques. 15. Tribal women in which state make the 'Karthumbi' umbrellas mentioned by Narendra Modi in 'Mann Ki Baat'?

1. Tamil Nadu
2. Karnataka
3. Kerala
4. Andhra Pradesh
5. Odisha

Correct Option - 3

Ques. 16. Which PSU signed an MoU with US-based Petron Sciencetech to consider a joint venture for a bio-ethylene plant in India? (August 2024)

1. ONGC
2. Indian Oil Corporation
3. GAIL
4. NTPC
5. Bharat Petroleum Corporation Limited

Correct Option - 3

Ques. 17. Which Indian athlete is paired correctly with their sport for the Paris Olympic Games?

1. Praveen Chitravel - Weightlifting
2. Manika Batra - Archery
3. Bhavani Devi - Badminton
4. Jeswin Aldrin - Boxing
5. Aman Sehrawat - Wrestling

Correct Option - 5

Ques. 18. Which dedicated CPAO mobile application makes pensioner services easier to access?

1. Pension Sathi
2. CPAO Connect
3. Dirghayu
4. Vriddh Ashray
5. Pension Samriddhi

Correct Option - 3

Ques. 19. The Union Cabinet approved BioE3 to promote high-performance biomanufacturing. Which option is outside the policy's core themes?

1. Economy
2. Environment
3. Employment
4. Energy
5. None of the above

Correct Option - 4

Ques. 20. Which listed Act empowers RBI to regulate India's financial market?

1. Reserve Bank of India Act, 1934
2. Banking Regulation Act, 1949
3. Payment and Settlement Systems Act, 2007
4. Securities Contract (Regulation) Act, 1956
5. Companies Act, 2013

Correct Option - 1

Ques. 21. Narendra Modi gave Ukraine four BHISHM Cubes. Approximately how many emergency cases can each cube handle?

1. Around 50 cases
2. Around 100 cases
3. Around 200 cases
4. Around 300 cases
5. Around 400 cases

Correct Option - 3

Ques. 22. What is the highest income a salaried resident individual may earn in a financial year to qualify for filing ITR 1 in India?

1. Rs 25 lakh
2. Rs 50 lakh
3. Rs 75 lakh
4. Rs 1 crore
5. Rs 1.5 crore

Correct Option - 2

Ques. 23. Under RBI's revised rules, what percentage of public deposits must deposit-taking HFCs continuously hold as liquid assets by January 1, 2025?

1. 10%
2. 12%
3. 13%
4. 14%
5. 15%

Correct Option - 4

Ques. 24. Which Indian state has the largest total wetland area, supporting biodiversity and ecosystem services?

1. West Bengal
2. Gujarat
3. Assam
4. Uttar Pradesh
5. Madhya Pradesh

Correct Option - 2

Ques. 25. As of 2023, which listed country is outside the world's five largest zinc producers?

1. China
2. Peru
3. Australia
4. India
5. Russia

Correct Option - 5

Ques. 26. Following NPCI's recent revision, what is the maximum UPI transaction amount for tax payments?

1. ₹1 lakh
2. ₹2 lakh
3. ₹3 lakh
4. ₹4 lakh
5. ₹5 lakh

Correct Option - 5

Ques. 27. Where was the recently discovered 2,492-carat rough diamond, the second-largest ever found, unearthed?

1. South Africa
2. Namibia
3. Botswana
4. Angola
5. Sierra Leone

Correct Option - 3

Ques. 28. An RBI study projected what percentage growth in total private sector investment in the current financial year over the preceding year? (August 2024)

1. 34%
2. 45%
3. 54%
4. 65%
5. 70%

Correct Option - 3

Ques. 29. How many core promoter banks originally joined the consortium that established NPCI?

1. 8
2. 10
3. 12
4. 15
5. 20

Correct Option - 2

Ques. 30. Under the manufacturing and service enterprise classification, what is the maximum yearly turnover allowed for Micro Enterprises?

1. Rs. 1 crore
2. Rs. 2 crore
3. Rs. 3 crore
4. Rs. 5 crore
5. Rs. 10 crore

Correct Option - 4

Ques. 31. NCFE prepared the National Strategy for Financial Education 2020-2025 in consultation with which financial sector regulators?

1. Reserve Bank of India (RBI)
2. Securities and Exchange Board of India (SEBI)
3. Insurance Regulatory and Development Authority of India (IRDAI)
4. Pension Fund Regulatory and Development Authority (PFRDA)
5. All of the above

Correct Option - 5

Ques. 32. Which state earned 'Best Performer' status in Category B (population below 1 crore) in the fourth Ranking of States on Support to Startup Ecosystems?

1. Arunachal Pradesh
2. Himachal Pradesh
3. Meghalaya
4. Nagaland
5. Goa

Correct Option - 2

Ques. 33. The revamped Model Skill Loan Scheme raised the maximum loan eligible for credit guarantee from INR 1.5 lakhs to INR 7.5 lakhs. What percentage of a loan is guaranteed against default under this scheme?

1. 50%
2. 60%
3. 75%
4. 85%
5. 90%

Correct Option - 3

Ques. 34. Scientists at which institute created a computational model that detects cervical dysplasia with 98.02% average accuracy? (July 2024)

1. Indian Institute of Science (IISc)
2. Tata Institute of Fundamental Research (TIFR)
3. Institute of Advanced Study in Science and Technology (IASST)
4. Indian Council of Medical Research (ICMR)
5. National Institute of Biomedical Imaging and Bioengineering

Correct Option - 3

Ques. 35. How much did the Union Budget allocate to the Nirbhaya Fund for 2024-25?

1. Rs 100 crore
2. Rs 150 crore
3. Rs 200 crore
4. Rs 250 crore
5. Rs 300 crore

Correct Option - 3

Ques. 36. For a joint SCSS account, what age restriction applies to the second applicant?

1. Above 50 years
2. Above 55 years
3. Above 60 years
4. No age limit
5. Above 65 years

Correct Option - 4

Ques. 37. What revised percentage of an employee's basic salary can a private sector employer contribute to NPS?

1. 8%
2. 10%
3. 12%
4. 14%
5. 15%

Correct Option - 4

Ques. 38. Which body issues Certificates of Coverage to migrant Indian workers under social security schemes in SSA countries?

1. Ministry of Labour and Employment
2. Employees' Provident Fund Organisation (EPFO)
3. National Skill Development Corporation (NSDC)
4. Ministry of External Affairs
5. Labour Welfare Board Top of Form

Correct Option - 2

Ques. 39. How many award categories were used for the National Awards for e-Governance 2024?

1. Three
2. Four
3. Five
4. Six
5. Seven

Correct Option - 3

Ques. 40. In August 2024, India named three Indian Ocean features: Ashoka seamount, Chandragupt ridge and _____.

1. Sagar Kanya seamount
2. Raman ridge
3. Panikkar ridge
4. Kalpataru ridge
5. Maurya ridge

Correct Option - 4

Ques. 41. From which sources does the Consolidated Fund of India receive revenue? 1. Revenue from direct taxes (e.g., income tax and corporate tax) 2. Revenue from indirect taxes (e.g., GST) 3. Dividends and profits from Public Sector Undertakings (PSUs) 4. Earnings from government services 5. Receipts from disinvestment, debt repayments, and loan recoveries

1. 1, 2, and 3 only
2. 2, 3, and 4 only
3. 1, 3, 4, and 5 only
4. 1, 2, 3 and 4 only
5. All of the above

Correct Option - 5

Ques. 42. Who received the Swarna Kamal for Best Direction for a Hindi film at the 70th National Film Awards for 2022?

1. Vivek Agnihotri
2. Sooraj R. Barjatya
3. R. Madhavan
4. Sanjay Leela Bhansali
5. Prashanth Neel

Correct Option - 2

Ques. 43. SEBI asked BSE to pay past differential regulatory fees after changing the calculation from premium turnover to annual notional turnover. What interest rate applies to unpaid, delayed or short-paid dues?

1. 10% per annum
2. 12% per annum
3. 15% per annum
4. 18% per annum
5. 20% per annum

Correct Option - 3

Ques. 44. By 2023, how many foreign banks using the wholly owned subsidiary model had RBI designated as agency banks?

1. None
2. One
3. Two
4. Three
5. Five

Correct Option - 2

Ques. 45. Which listed expression is unrelated to mutual funds?

1. Net Asset Value (NAV)
2. Systematic Investment Plan (SIP)
3. Expense Ratio
4. Moratorium Period
5. Asset Under Management (AUM)

Correct Option - 4

Ques. 46. The DRI Scheme offers eligible weaker sections bank finance of up to _____ at 4% annual interest.

1. ₹10,000
2. ₹12,000
3. ₹15,000
4. ₹18,000
5. ₹20,000

Correct Option - 3

Ques. 47. What is the highest capital subsidy available to each beneficiary under SRMS?

1. Rs. 3 lakh
2. Rs. 3.25 lakh
3. Rs. 4 lakh
4. Rs. 5 lakh
5. Rs. 5.5 lakh

Correct Option - 4

Ques. 48. In which listed fields do Agri-Clinics offer assistance under the ACABC Scheme?

1. Soil health and plant protection
2. Crop insurance and post-harvest technology
3. Clinical services for animals and feed management
4. Prices of various crops in the market
5. All of the above

Correct Option - 5

Ques. 49. After retiring from all cricket in August 2024, Shikhar Dhawan was remembered for which exceptional Test-debut record?

1. Highest score in a debut Test inning
2. Most sixes in a debut match
3. Fastest Test century on debut
4. Most fours in a debut match
5. Highest strike rate on debut

Correct Option - 3

Ques. 50. In May 2024, India and which country agreed to expedite a Local Currency Settlement System Agreement for trade in their domestic currencies?

1. South Africa
2. Nigeria
3. Brazil
4. Russia
5. Kenya

Correct Option - 2

Directions (51-56): Read the following passage and answer the given questions. Nuclear power and hydropower are crucial components of global low-carbon electricity generation, collectively supplying three-quarters of the world's low-carbon energy. Over the last 50 years, nuclear power alone has prevented over 60 gigatonnes of CO₂ emissions, equating to nearly two years' worth of global energy-related emissions. Despite this significant contribution, nuclear power is facing a decline in advanced economies, where plants are closing, and new investments are scarce. This comes at a time when the world urgently needs more low-carbon energy sources to meet international climate goals. The decline of nuclear power could have serious implications for both electricity security and the cost of energy. Projections suggest that nuclear power in advanced economies could drop by as much as two-thirds by 2040 if no significant actions are taken. This would hinder efforts to reduce global CO₂ emissions, as outlined in the Paris Agreement and modeled in scenarios like the Sustainable Development Scenario, which calls for rapid cuts in emissions. Achieving these reductions without nuclear power would require massive investments in renewables and energy efficiency, further complicating an already challenging transition to a low-carbon economy. This decline poses serious risks to global climate goals. Nuclear power provides a reliable and consistent source of low-carbon energy that complements intermittent renewable sources like solar and wind. Without it, the costs of transitioning to a fully sustainable energy system will likely increase, and progress in reducing emissions could slow significantly. To address these concerns, the report suggests several key government actions. These include supporting the safe operation of existing nuclear plants, encouraging the construction of new nuclear facilities, and investing in advanced nuclear technologies. By taking these steps, countries can ensure that nuclear power remains a vital part of the global low-carbon energy mix.

Ques. 51. Which statements below are supported as inferences by the passage?

- (I) Nuclear power has played a major role in reducing global CO₂ emissions over the past decades.
 (II) The decline of nuclear power in advanced economies is primarily due to safety concerns.
 (III) The cost of transitioning to a fully renewable energy system without nuclear power could rise significantly.

1. Only (I)
2. Only (II)
3. Both (I) and (III)
4. Only (III)
5. All (I), (II), and (III)

Correct Option - 3

Ques. 52. Why does the passage regard declining nuclear power as worrying?

1. It poses a threat to the stability and security of global energy supplies.
2. It could result in a rise in CO2 emissions, putting international climate goals at risk.
3. Nuclear power is the only reliable source of low-carbon energy that can support global energy needs.
4. The expenses associated with maintaining existing nuclear power plants are excessively high, contributing to the decline.
5. The development and implementation of advanced nuclear technologies are not yet practical.

Correct Option - 2

Ques. 53. Which action does the report NOT recommend for retaining nuclear power in the global energy mix?

1. Promoting the safe operation and management of existing nuclear power plants.
2. Allocating resources towards the development of advanced nuclear technologies.
3. Giving priority to renewable energy sources over nuclear power in energy strategies.
4. Supporting the construction of new nuclear power facilities.
5. Making sure that nuclear power continues to play a role in the global low-carbon energy strategy.

Correct Option - 3

Ques. 54. What consequence of excluding nuclear power from the global energy mix can be inferred?

1. Solar and wind power would completely take over as dependable sources of energy, replacing nuclear power.
2. Advanced economies would cease their investments in renewable energy technologies.
3. The world would require much larger investments in renewable energy sources and improvements in energy efficiency.
4. CO2 emissions would significantly rise, leaving no feasible alternatives for reducing emissions.
5. Achieving the objectives of the Paris Agreement would become easier.

Correct Option - 3

Ques. 55. Which interpretation of 'which calls for rapid cuts in emissions' is incorrect in the passage's context?

1. The Sustainable Development Scenario demands immediate and significant reductions in CO2 emissions.
2. Meeting the goals of the Paris Agreement requires accelerated efforts in cutting CO2 emissions.
3. The scenario emphasizes swift actions for CO2 reduction to achieve climate goals.
4. The passage implies that nuclear power helps meet the rapid emission reduction requirements.
5. The phrase indicates that slow progress in emission reductions is acceptable.

Correct Option - 5

Ques. 56. What major outcome can result from nuclear power's decline?

1. A growing global dependence on nuclear energy, leading to a shift away from other energy sources and increasing the demand for nuclear power in the energy mix.
2. Strengthened electricity security across various regions, resulting in improved stability and reliability of energy supplies despite the reduced reliance on nuclear power.
3. Increased cost efficiency within the energy sector, allowing for more affordable energy production and distribution due to the decline in nuclear energy investments.
4. Significant impacts on both electricity security and the overall cost of energy, as the decline of nuclear power undermines the stability of energy supplies and increases energy-related expenses.
5. A higher dependence on fossil fuels in advanced economies, causing a shift back to more carbon-intensive energy sources to compensate for the decline of nuclear power.

Correct Option - 4

Directions (57-60): Choose the order of the parts that produces a grammatically correct sentence with a coherent meaning.

Ques. 57. (A) of climate change and preserving

(B) is essential for mitigating the adverse effects

(C) and responsible resource management,

(D) including renewable energy usage, waste reduction,

(E) biodiversity for future generations

(F) adopting sustainable practices across industries,

1. FDCBAE
2. FDBCEA
3. EBADAC
4. EBACAD
5. EBCFAD

Correct Option - 1

Ques. 58. (A) but also about fostering a culture of trust,

(B) encouraging open communication, and

(C) effective leadership within organizations is

(D) empowering team members to take

(E) ownership of their roles, ultimately driving collective success

(F) not only about making strategic decisions

1. CDEBAF
2. BDECFA
3. CFABDE
4. BDEAFC
5. BCEDFA

Correct Option - 3

Ques. 59. (A) artificial intelligence has the potential to
(B) necessitate careful regulation and
(C) revolutionize industries, but its ethical implications,
(D) job displacement, bias, and data security,
(E) responsible technological development
(F) including concerns over

1. ACDFEB
2. ADCFEB
3. ACFEDB
4. ACFDBE
5. ABCDEF

Correct Option - 4

Ques. 60. (A) and infrastructure strain, requiring
(B) livable environments for future populations
(C) such as housing shortages, pollution,
(D) as urbanization continues to reshape
(E) innovative planning to ensure sustainable,
(F) the global landscape, cities face growing challenges

1. DFCAEB
2. DECABF
3. DACEBF
4. FEDACB
5. FADCEB

Correct Option - 1

Directions (61-67): Identify the grammatically incorrect part(s) in each divided sentence. Choose "no error" when all parts are correct.

Ques. 61. To understand personal finance, (A)/ including budgeting and investing,/ empower individuals to make (B)/ informed decisions and (C) /achieve long-term financial security. (D)

1. A
2. A-B
3. C-D
4. D
5. No error

Correct Option - 2

Ques. 62. Not only the team achieved (A)/ remarkable success in the project, / but never before they had encountered (B) / such challenges that tested their (C)/ skills and determination to this extent. (D)

1. A-D
2. A-B
3. C-D
4. D
5. No error

Correct Option - 2

Ques. 63. The rapidly growth in urban populations (A) / have led to increased demand (B) / for housing, infrastructure, and (C) / public services in many (D) / developing countries.

1. A-B
2. B-C
3. C-D
4. D
5. No error

Correct Option - 1

Ques. 64. If we would have known (A) / about the new policy changes, (B) / we had prepared (C) / more effectively/ for the upcoming challenges. (D)

1. A-B
2. B-C
3. A-C
4. D
5. No error

Correct Option - 3

Ques. 65. Neither the employees nor (A) / the manager were aware (B) / of the technical issue that (C) / cause the system to (D) / shut down unexpectedly.

1. A-B
2. B-C
3. A-D
4. B-D
5. No error

Correct Option - 4

Ques. 66. Every year, (A) / thousands of students applies (B) / for admission to prestigious (C) / universities around the world, (D) / hoping to secure a place in top programs.

1. A-B
2. B-C
3. A-D
4. B
5. No error

Correct Option - 2

Ques. 67. Each of the participants / were asked to provide (A) / feedback on the event, (B) / including their suggestions for improvement (C) / and their overall satisfaction with the experience. (D)

1. A-B
2. B-C
3. A
4. D-E
5. No error

Correct Option - 3

Directions (68-73): Read the following passage and answer the given questions. Solar power is steadily reshaping the energy landscape, not just through its promise of sustainability, but by overcoming some of the long-standing technical barriers that once held it back. One of the most significant advancements in recent years lies in the rise of perovskite solar cells. Unlike conventional silicon-based panels, these

cells are more affordable to produce and remarkably versatile, offering a faster route to mass adoption of solar energy. The reduced production costs promise to democratize clean energy access, potentially making solar a primary power source for both individuals and industries.

Efficiency, a crucial measure of solar technology's viability, has also seen dramatic improvements. Photovoltaic (PV) panels, now surpassing 20% efficiency in standard conditions, can convert more sunlight into electricity than ever before. Cutting-edge research into tandem solar cells is even pushing efficiency above 25%, challenging old assumptions about solar's limitations. In addition to these technical leaps, solar power offers unparalleled environmental benefits. Unlike fossil fuel-based energy, solar power produces no harmful emissions during electricity generation, helping to combat climate change and significantly reducing global carbon emissions. This makes it an environmentally attractive alternative as countries seek to meet international climate goals. Another challenge, historically associated with solar energy, was its intermittency—solar power generation stops when the sun isn't shining. However, advances in battery storage systems are beginning to resolve this issue. These systems can store excess power generated during peak sunlight hours and release it during cloudy periods or at night, making solar energy more reliable. Grid integration is another key development. Solar power is now more easily fed into national and regional grids, allowing for seamless distribution. This scalability ensures that solar energy can not only meet individual needs but also contribute to larger, more stable power systems, fostering a transition to a greener future without compromising energy availability. Ultimately, solar power's continued evolution positions it as a major force in the global energy shift, with its ecological, economic, and technical advantages driving the momentum forward.

Ques. 68. Which option best describes the passage's distinction between perovskite cells and conventional silicon solar panels?

1. Perovskite solar cells are more efficient and environmentally friendly compared to silicon-based solar panels.
2. Silicon-based solar panels are more reliable but less affordable compared to perovskite solar cells.
3. Unlike silicon-based panels, perovskite cells are easier to integrate into national power grids, enhancing energy distribution.
4. Perovskite solar cells are more cost-effective and versatile, offering a more accessible route to widespread solar energy adoption.
5. The development of perovskite cells marks the first time solar panels have surpassed 25% efficiency.

Correct Option - 4

Ques. 69. If the solar advances described do not occur, which assumptions below would most likely be weakened?

- (I) Solar energy will become the primary energy source for both individuals and industries.
- (II) Global reliance on fossil fuels will decrease as solar technology becomes more affordable and efficient.
- (III) Climate change goals will be met if solar power continues to evolve as expected.
1. Only (I)
 2. Both (I) and (II)
 3. Only (III)
 4. Both (II) and (III)
 5. All (I), (II), and (III)

Correct Option - 5

Ques. 70. How would you describe the passage's tone?

1. Pessimistic
2. Critical
3. Optimistic
4. Neutral
5. Skeptical

Correct Option - 3

Ques. 71. Which option best explains why 'grid integration' matters for solar power in the passage?

1. Grid integration enhances the efficiency of solar cells by improving energy distribution across regions.
2. It allows solar energy to be more reliably used in tandem with fossil fuel-based energy systems.
3. Grid integration enables solar power to seamlessly meet both small-scale and large-scale energy needs, making it a more stable power source.
4. Grid integration reduces the environmental impact of solar power by ensuring optimal energy use and storage.
5. It ensures that solar energy can be harnessed even in regions with lower sunlight exposure.

Correct Option - 3

Ques. 72. Which statements below conflict with the passage?

- (I) The environmental benefits of solar energy include zero emissions during production and installation.
 (II) Solar power's grid integration has reduced the need for advancements in battery storage systems.
 (III) Perovskite solar cells have achieved higher efficiency levels than traditional photovoltaic panels.

1. Only (I)
2. Both (I) and (III)
3. Only (II)
4. Only (III)
5. All (I) (II) (III)

Correct Option - 5

Ques. 73. What advantage of tandem solar cells does the passage imply?

1. Tandem solar cells are easier to manufacture than conventional photovoltaic panels.
2. Tandem solar cells increase solar energy's reliability by storing excess energy during peak hours.
3. Tandem solar cells help overcome the physical limitations previously associated with traditional solar technology.
4. Tandem solar cells reduce solar power's environmental footprint, making them more sustainable.
5. Tandem solar cells are less expensive than silicon-based and perovskite solar cells.

Correct Option - 3

Ques. 74. Read the information below and answer the question. John has consistently demonstrated a lack of punctuality, often arriving late to meetings and missing important deadlines, which has caused disruptions in the workflow of the team. Despite numerous reminders and opportunities to improve his time management skills, he continues to struggle with completing tasks on schedule, putting added pressure on his colleagues. Additionally, John has developed a reputation for being arrogant, dismissing constructive feedback from both peers and supervisors, and often undermining the efforts of others with an overconfident attitude. His reluctance to acknowledge these issues has created tension in the workplace, making it difficult for the team to collaborate effectively.

What does the paragraph imply about John's behaviour at work?

1. John frequently meets deadlines but struggles with maintaining a positive relationship with his team.
2. John's arrogance stems from the heavy workload he faces and the constant criticism he receives regarding his personal qualities.
3. John acknowledges that he lacks necessary skills for the project and thus withdraws from it.
4. John is not dependable for urgent projects due to his tardiness and arrogance.
5. John is known for always providing constructive feedback to his peers.

Correct Option - 4

Ques. 75. Read the passage below and answer the question. Lily is a high school student who excels academically, consistently earning top grades in all her subjects. However, she often feels anxious about exams, believing that anything less than perfect marks is a failure. As a result, Lily spends long hours studying, often skipping social events and recreational activities. While her friends enjoy their weekends, Lily can usually be found at home reviewing her notes. Despite her academic success, she feels isolated and overwhelmed by the pressure to maintain her perfect record. What does the paragraph suggest about Lily's studies and social life?

1. Lily believes that only perfect grades will help her make friends and maintain a good social life.
2. Lily prefers studying over socializing, often choosing to stay home and review her notes while her friends go out.
3. Lily's friends often avoid inviting her to social events because she is always too busy with her studies.
4. Lily does not feel pressured by her academic performance and manages to enjoy her weekends with friends.
5. Lily balances her academic success with a busy and enjoyable social life.

Correct Option - 2

Directions (76-81): Read the following passage and answer the given questions. Recent advancements in medical research have significantly improved the development of new treatments for various diseases. A primary focus has been the evolution of personalized medicine, an approach that tailors medical treatment to the individual characteristics of each patient. Researchers have been exploring how genetic, environmental, and lifestyle factors influence the effectiveness of drugs. One prominent example is the use of targeted therapies in cancer treatment. Instead of using a one-size-fits-all approach, targeted therapies focus on specific molecular targets associated with cancer growth. Drugs like imatinib, used to treat chronic myeloid leukemia (CML), block certain proteins that promote the growth of cancer cells without harming normal cells. This precise targeting leads to fewer side effects and improved treatment outcomes. Another area of research revolves around mRNA vaccines, a groundbreaking innovation in the field of immunology. Though mRNA vaccine technology has been studied for decades, it gained widespread attention during the COVID-19 pandemic. Researchers successfully developed vaccines like Pfizer- BioNTech's mRNA vaccine in record time, which instructs the body's cells to produce a protein that triggers an immune response. This method provides a safer and faster way to develop vaccines, as it avoids the traditional requirement of growing live viruses in laboratories. The success of these vaccines has spurred further research into using mRNA technology to treat other diseases, such as influenza, HIV, and certain cancers. These breakthroughs in research, from personalized therapies to innovative vaccines, are transforming the landscape of medicine, offering

more effective and individualized treatments while reducing potential side effects. The ongoing exploration of these fields holds promise for the future of healthcare.

Ques. 76. Which assumptions below about mRNA vaccines are supported by the passage?

- (I) mRNA vaccine technology has applications beyond COVID-19 treatment.
- (II) mRNA vaccines can be developed more quickly than traditional vaccines.
- (III) mRNA vaccines have proven to be more effective than all other vaccine types.

1. Only (I)
2. Both (I) and (II)
3. Only (III)
4. Both (I) and (III)
5. All (I), (II), and (III)

Correct Option - 2

Ques. 77. Which statement agrees with the passage?

1. Imatinib is used to treat various forms of cancer by targeting cancer cells indiscriminately.
2. Traditional vaccines are faster to develop than mRNA vaccines, which require growing live viruses.
3. Personalized medicine primarily focuses on environmental factors while ignoring genetic influences.
4. mRNA vaccines instruct cells to produce proteins that trigger an immune response.
5. Targeted therapies cause significant harm to normal cells during cancer treatment.

Correct Option - 4

Ques. 78. Which description best captures the passage's tone?

1. Doubtful
2. Hopeful
3. Analytical
4. Alarmist
5. Pessimistic

Correct Option - 2

Ques. 79. What best explains, according to the passage, rising interest in mRNA technology beyond COVID-19?

1. mRNA vaccines have proven to be more cost-effective than all other types of vaccines.
2. mRNA technology offers a platform that can be adapted to develop treatments for various diseases quickly.
3. The use of mRNA vaccines has eradicated the need for traditional vaccine development.
4. mRNA vaccines offer permanent immunity to diseases, unlike other vaccines.
5. Research into mRNA vaccines focuses solely on treating infectious diseases like influenza and HIV.

Correct Option - 2

Ques. 80. What future difficulty for personalized medicine is most reasonably inferred from the passage?

1. Personalized medicine may become too expensive for widespread adoption due to its individualized approach.
2. Personalized medicine is likely to cause more side effects because of its focus on targeting specific molecular profiles.
3. The success of personalized medicine will depend heavily on integrating genetic research into medical treatments.
4. Personalized medicine will soon replace all forms of traditional medicine, making standardized treatments obsolete.
5. Personalized medicine is effective only in treating cancer and has limited applications in other fields of healthcare.

Correct Option - 3

Ques. 81. Which statements below about medical research advances can be inferred from the passage?

(I) Targeted therapies have reduced the harmful side effects associated with traditional cancer treatments.

(II) mRNA vaccine technology is gaining interest for its potential to treat diseases beyond infectious ones.

(III) Personalized medicine focuses exclusively on genetic factors when developing individualized treatments.

1. Only (I)
2. Both (I) and (II)
3. Only (III)
4. Both (II) and (III)
5. All (I), (II), and (III)

Correct Option - 2

Directions (82-87): In the following questions, a paragraph is provided with a few highlighted words. Select the most appropriate option that can replace the highlighted word to ensure the paragraph is both grammatically and contextually accurate. A recent psychological study on decision-making under uncertainty has endured (A) on the cognitive biases that influence human choices. The researchers focused on the prospect theory, which suggests that individuals are more likely to avoid losses than to pursue equivalent (B) gains, even when the risks are identical. Participants were asked to make decisions involving hypothetical financial backdrop(C), and the results confirmed a pronounced loss tactic (D) across various demographics. The study also revealed that framing effects, or how a problem is presented, significantly endorsed (E) participants' risk tolerance. This research has broad implications for fields like fictitious (F) economics, marketing, and public policy, as understanding these biases can improve strategies for influencing consumer behavior and decision-making processes.

Ques. 82. Which option best replaces (A)?

1. emphasis
2. proposed
3. shed light
4. underscored
5. No replacement required

Correct Option - 3

Ques. 83. Which option best replaces (B)?

1. fabricated
2. economic
3. sustenance
4. No replacement required
5. commercial

Correct Option - 4

Ques. 84. Which option best replaces (C)?

1. No replacement required
2. scenarios
3. situation
4. predicament
5. context

Correct Option - 2

Ques. 85. Which option best replaces (D)?

1. embrace
2. No replacement required
3. seizure
4. aversion
5. espousal

Correct Option - 4

Ques. 86. Which option best replaces (E)?

1. No replacement required
2. process
3. coagulated
4. replaced
5. altered

Correct Option - 5

Ques. 87. Which option best replaces (F)?

1. organizational
2. behavioral
3. No replacement required
4. cohort
5. realistic

Correct Option - 2

Directions (88-89): Choose the word that completes the blank correctly in both grammar and context.

Ques. 88. The workers showed great _____ during the strike to demand better conditions.

1. solitude
2. apathy
3. hostility
4. solidarity
5. detachment

Correct Option - 4

Ques. 89. The artist found inspiration for his new sculpture in his nightly _____.

1. routine
2. muse
3. monotony
4. impulse
5. hesitation

Correct Option - 2

Directions (90): Select the phrasal verbs that must exchange positions to make the paragraph coherent.

Ques. 90. As the project deadline approached, the team needed to pull together (i) their resources to ensure success. They began to carry on (ii) the final details, making sure nothing was overlooked. Everyone felt the pressure, but they were determined to go over (iii) despite the challenges. By the end of the day, they managed to wrap up (iv) their tasks, feeling accomplished and ready for the presentation.

1. i-ii
2. i-iv
3. ii-iv
4. ii-iii
5. No interchange required

Correct Option - 4

Reasoning Ability and Computer Aptitude

Directions (91-95): Read the given information carefully and answer the questions based on it: Nine persons of a three-generation family are of different age (years). The persons are A, D, N, M, H, S, T, W and K but not related in the same order as given. W is son-in-law of S who is parent of K's spouse. K's mother-in-law has only one daughter. A is spouse of S and paternal grandparent of N. K's child is niece of T who has two children but D is not child of W. Number of males is one more than number of females. D and A are not of same gender. To find the age of all persons, follow the instructions below: Age of the youngest member is equal to the total number of persons in the family. Age of D's spouse is three times the age of youngest member. T's father age is twice of K's age. Ratio between the age of T's niece and D's father is 2:9 respectively. Difference between the age of both the cousin of N is 6 years. W's age is equal to the total age of A's grandchildren. Difference between the age of A's son-in-law and M's mother is 1. Ratio between the age of K's mother-in-law and S's daughter is 9:5 respectively. D's age is one more than the twice of M's age but D is not youngest in his generation.

Ques. 91. What is the combined age of everyone in the second generation?

1. 102 years
2. 119 years
3. 117 years
4. 129 years
5. None of the above

Correct Option - 4

Ques. 92. Which statements below are correct?

I. oldest person's age is an odd number

II. M is nephew of D

III. T is older to K

1. Only III
2. Only I
3. Both II and III
4. Both I and II
5. All I, II and III

Correct Option - 5

Ques. 93. Four people listed have a common age-based feature. Who is the exception?

1. S's son
2. W's father-in-law
3. H's grandmother
4. T's husband
5. M's sibling

Correct Option - 1

Ques. 94. Who ranks fifth in age, starting with the oldest family member?

1. K's sister-in-law
2. D's wife
3. W's brother-in-law
4. H's mother
5. T's niece

Correct Option - 3

Ques. 95. How is the 31-year-old related to the 12-year-old?

1. Sister
2. Father
3. Nephew
4. Niece
5. None of the above

Correct Option - 2

Directions (96-100): Study the following information carefully and answer the questions given below. Fourteen persons B, C, D, E, F, G, H, I, J, K, L, M, N and O sit around two tables—one circular (referred to as a rope-shaped table) inscribed within a square-shaped table. Four persons sit at the corners of the square table, while four sit in the middle of the sides. The persons who sit at corners face inside and the persons who sit on the middle of the sides of table face outside. Six persons sit at the circular

rope-shaped table at a distance of multiples of 3 between them consecutively such as 3m, 6m, 9m and so on. The persons who sit on the circular rope shaped table face inside. F sits 9m to the left of J in a circular shaped table. There is distance of 27m between J and G when counting from one of the sides from J. O sits third to the right of I. Two persons sit between O and N. L sits immediately to the right of C. N doesn't sit on the middle of the sides of the table. G is an immediate neighbour M. There is a distance of 42m between G and B. There is a distance of more than 12m between B and R when counting from both sides of B. There is a distance of more than 15m between R and G when counting from both sides of R. H sits third to the left of D. E sits third to the left of L. D is not an immediate neighbour of O.

Ques. 96. Where is D positioned relative to C?

1. Fifth to the left
2. Fifth to the right
3. Sixth to the right
4. Sixth to the left
5. Second to the right

Correct Option - 3

Ques. 97. After E and R exchange seats, who is 45 m from E when counted from either side of E?

1. B
2. F
3. H
4. R
5. M

Correct Option - 2

Ques. 98. Which pair listed consists of immediate neighbours?

1. E and O
2. R and G
3. F and J
4. B and M
5. J and B

Correct Option - 5

Ques. 99. Four options share a seating-arrangement feature. Which option is the exception?

1. B
2. O
3. I
4. N
5. C

Correct Option - 1

Ques. 100. Which statements below are true?

- I. F sits at a distance of 9m from M when counting right of M.
 - II. L sits at one of the corners of the square-shaped table.
 - III. Four persons sit between H and C when counting from left of C.
1. Only I
 2. Both I and II
 3. Both II and III
 4. Only III
 5. Only II

Correct Option - 3

Directions (101-105): In each question, rows containing different elements are provided. To find out the resultant of a particular row, follow the given conditions:

Condition 1: If an even number is followed by an odd number, then the resultant must be the difference between the number.

Condition 2: If an odd number is followed by another odd prime number, then the sum of the resultants is added by 4.

Condition 3: If an odd number is followed by an even number, then the resultant must be the sum of both numbers.

Condition 4: If an even number is followed by an even number, then the resultant must be the difference between the number added by 2.

Condition 5: If an odd number is followed by another odd number (not prime), then the resultant must be product of both the number subtracted by 6. Now, answer the following questions based on the above conditions:

Ques. 101. Calculate the sum of the two row resultants.

25 17 36

54 22 77

1. 70
2. 55
3. 67
4. 53
5. None of these

Correct Option - 2

Ques. 102. Calculate the square of the difference between the two row resultants.

45 34 92

13 9 78

1. 324
2. 441
3. 579
4. 676
5. None of these

Correct Option - 1

Ques. 103. Determine Y when the two row resultants sum to 105.

31 46 13 63 17 Y

1. 89
2. 76
3. 32
4. 88
5. 95

Correct Option - 5

Ques. 104. Determine X and Z, respectively, when the two row resultants differ by

10. 12 37 X Z 9 6

1. 15, 18
2. 14, 7
3. 12, 3
4. 22, 9
5. None of these

Correct Option - 3

Ques. 105. Calculate the product of the two row resultants.

11 9 3

5 19 4

1. 2800
2. 2600
3. 1072
4. 2684
5. None of these

Correct Option - 2

Directions (106-109): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

1. if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
2. if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
3. if the data either in statement I alone or in statement II alone are sufficient to answer the question.
4. if the data given in both statements I and II together are not sufficient to answer the question.
5. if the data in both statements I and II together are necessary to answer the question.

Ques. 106. Five boxes A, B, C, D and E are stacked in an unspecified order. Positions are numbered 1 at the bottom to 5 at the top. Which box occupies position 3?

Statement I: Box A is placed above box C and immediately below box E. More than two box is placed between box E and box B.

Statement II: Box B is placed immediately below box D and two boxes above box A. Box E is placed above Box A which is placed above box C.

Correct Option - 2

Ques. 107. Six people attend meetings on different days from Monday to Saturday, in an unspecified order.

Statement I: P has a meeting on Wednesday and three days before U. As many persons have meeting before U as after R.

Statement II: Q has a meeting before T. V has a meeting before U. P has a meeting before V.

Correct Option - 4

Ques. 108. How is 'Are regular' coded?

Statement I: "regular classes scheduled" is coded as "mj kl pr". "classes tomorrow are cancelled" is coded as "ui ml km mj"

Statement II: "regular exercise is important" is coded as "mo hg kl qw". "regular meetings are important" is coded as "jk ml kl mo"

Correct Option - 5

Ques. 109. Five people A, B, C, D and E face north in a row, in an unspecified order. Where does E sit relative to C?

Statement I: E sits second to the right of B. D sits second to the left of A. D sits immediate right of C who sits second to the left of B.

Statement II: A and E are immediate neighbours. C sits third to the left of A.

Correct Option - 1

Ques. 110. Statement: To address increasing air pollution, several cities promote electric vehicles through tax incentives, extra charging facilities and restrictions on conventional fuel-powered vehicles in selected areas. These policies aim to encourage cleaner travel and lower emissions-related environmental harm. Which assumption fits this statement?

1. Electric vehicles are considered a cleaner alternative to traditional fuel-powered vehicles.
2. Public awareness about the environmental benefits of electric vehicles is growing.
3. The high cost of electric vehicles will discourage widespread adoption, even with tax incentives.
4. The current EV charging infrastructure is insufficient to support a large-scale shift to electric vehicles.
5. The electricity required to charge electric vehicles will come from renewable energy sources rather than fossil fuels.

Correct Option - 1

Ques. 111. Statement: Several organizations prioritize vocational training for women to improve livelihoods and economic independence. Their programs equip women to establish small businesses, access more jobs and participate in their communities' economic growth. Which statements below follow from this information?

- I. Many organizations believe that traditional roles limit women's economic participation.
- II. Women who acquire new skills are likely to have better access to economic opportunities.
- III. Women can enhance their financial prospects through targeted skill development programs.
- IV. Vocational training is the most effective way to boost a country's overall economy.

1. Both I and III
2. Both I and IV
3. Only II
4. Both II and III
5. Both II and IV

Correct Option - 4

Directions (112-116): Study the following information carefully and answer the given questions below:
There are eight employees A, B, C, D, E, F, G and H working in a company at different designations: CEO, Vice President (VP), Senior Manager (SM), Manager, Assistant Manager (AM), Junior Officer (JO), Clerk and Trainee. Each employee plays a different sport: Football, Cricket, Basketball, Hockey, Tennis, Badminton, Chess and Volleyball. The designations are ranked in order with CEO being the senior-most and Trainee being the junior-most. All the information is not necessarily in the same order.

The one who plays Badminton is designated just junior to D. A and G don't play Tennis and Hockey. Three designations are between C and the one who plays Basketball. E is two designations junior to the person who plays basketball. C and E are not designated as the junior-most person and senior person. The number of persons senior to E is two less than the number of persons junior to the person who plays Badminton. More than four persons are designated between D and H who plays Cricket. As many persons senior to the person who plays Cricket as junior to the person who plays Hockey. B doesn't play Badminton. The one who plays Chess is two persons senior than G. E and G don't play Football. The person designated as Assistant Manager, F and B don't play Chess.

Ques. 112. Which game does B play, and how many people hold positions junior to B, respectively?

1. Seven, Hockey
2. Five, Hockey
3. Seven, Basketball
4. Five, Basketball
5. None of these

Correct Option - 4

Ques. 113. Which listed pair is correctly matched?

1. A – Senior Manager
2. G - Clerk
3. C - Clerk
4. C – Junior Officer
5. E – Manager

Correct Option - 3

Ques. 114. Which statement contradicts the information provided?

1. D is the designated as the CEO and plays Basketball
2. F is designated junior to E.
3. The person designated as Manager plays Chess.
4. Four designations are there between F and G.
5. All are incorrect

Correct Option - 3

Ques. 115. What designation does the Volleyball player hold?

1. Clerk
2. Junior Officer
3. Senior Manager
4. Vice President
5. Assistant Manager

Correct Option - 2

Ques. 116. How many designations separate A from the Football player?

1. As many persons designated junior to the person who plays Tennis
2. As many persons designated senior to the person who plays Hockey
3. As many persons designated between F and C
4. Four
5. As many persons designated between E and H

Correct Option - 5

Ques. 117. Seven boxes P, Q, R, S, T, U and V are stacked in an unspecified order. Four boxes separate Q and V. V is immediately above P, and two boxes separate P and U. T is below U. R is above S, and S is not fourth from the bottom. Which box lies four boxes below S?

1. T
2. Q
3. P
4. V
5. None of these

Correct Option - 3

Ques. 118. In 'LONGITUDE', replace letters after M with their preceding letters and letters before M with their succeeding letters. Arrange the resulting letters in reverse alphabetical order from the left. What is the sum of the alphabet positions of the third letters from the right and left ends?

1. 27
2. 22
3. 29
4. 23
5. 32

Correct Option - 2

Ques. 119. Statement: Persistent worldwide labour shortages, especially in construction, are prompting firms to adopt immersive training. The aim is to improve skills efficiently, shorten onboarding and narrow the gap between skilled-worker demand and supply. Which proposed courses of action fit the statement?

- I. Focus on increasing tax incentives for large corporations to promote economic growth.
 - II. Collaborate with tech providers to introduce VR-based simulations for on-site construction training.
 - III. Implement immersive training environments to quickly upskill workers in sectors facing shortages.
1. Only II
 2. Only I
 3. Both II and III
 4. Only III
 5. Both I and II

Correct Option - 3

Ques. 120. 6G is being developed, and Reconfigurable Intelligent Surfaces (RIS) are expected to improve wireless communication and support technologies such as autonomous vehicles. Which courses of action below would support this progress?

- I. Encourage investment in RIS infrastructure to improve wireless communication efficiency and enable widespread adoption of 6G technology.
 - II. Increase funding for traditional 5G networks to strengthen the current communications infrastructure instead of focusing on 6G.
 - III. Implement policies to limit the use of autonomous vehicles until current 5G networks are more stable.
1. Only II
 2. Only III
 3. Only I
 4. Both II and III
 5. Both I and II

Correct Option - 3

Ques. 121. Statement: Many countries are expanding investment in renewable energy and sustainable technology to tackle climate change. Hydrogen fuel cells are a focus for clean energy generation and storage, reducing fossil-fuel dependence and greenhouse gas emissions. Which action best supports advancing hydrogen fuel cells for this purpose?

1. Governments should provide tax incentives and grants to companies investing in hydrogen fuel cell technology to encourage faster adoption.
2. Encourage immediate investments in nuclear energy plants, as they provide a steady power supply, which could help bridge current energy gaps.
3. Limit the production of electric vehicles until a more efficient energy source than lithium-ion batteries are available.
4. Increase subsidies for coal mining companies to keep energy prices low and ensure energy availability during the transition to renewable sources.
5. Prioritize funding for urban transportation projects over renewable energy initiatives, focusing on improving road and rail infrastructure instead.

Correct Option - 1

Directions (122-126): A word and number arrangement machine, when given an input line of words and numbers, rearranges them following a particular rule in each step. Below is an example of input and its rearrangement: Input: 97 wisdom 64 amplify 38 justice 71 clarity 25 mystery Step I: 52 97 64 amplify 38 justice 71 clarity mystery modsiw Step II: 83 52 97 64 amplify justice 71 clarity modsiw yretsism Step III: 17 83 52 97 64 amplify clarity modsiw yretsism ecitsuj Step IV: 46 17 83 52 97 amplify modsiw yretsism ecitsuj ytiralc Step V: 79 46 17 83 52 64 modsiw yretsism ecitsuj ytiralc yfilpma Based on the above example where Step V is the last step, find the arrangement for the below input and answer the related questions: Input: 45 courage 86 understand 31 venture 32 meticulous 42 explore

Ques. 122. In Step IV, what is the sum of the second number from the right and the third number from the left?

1. 63
2. 36
3. 131
4. 77
5. None of these

Correct Option - 2

Ques. 123. Which element is eighth from the left in Step III?

1. 86
2. erutnev
3. suolucitem
4. courage
5. None of these

Correct Option - 2

Ques. 124. In which step does '86 42 explore erutnev' appear in exactly this order?

1. Step I
2. Step II
3. Step IV
4. Step III
5. Step V

Correct Option - 4

Ques. 125. In the final step, which element is second to the left of the fourth element from the right?

1. 54
2. 23
3. suolucitem
4. erutnev
5. 13

Correct Option - 5

Ques. 126. In Step V, what is the difference between the alphabet values of the second letters of the second and fifth words from the left?

1. 12
2. 11
3. 10
4. 14
5. None of these

Correct Option - 5

Ques. 127. M, N, O, P, Q, R and S visit a mall on separate days from Monday to Sunday, in an unspecified order. S visits after P and immediately after O. More than three people visit between Q and O. Q visits immediately after M; M does not visit on Friday. Two people visit between P and N, and N does not visit on Monday. Who visits on Thursday?

1. O
2. P
3. N
4. M
5. R

Correct Option - 3

Directions (128-130): Study the following information carefully and answer the given questions. In certain coding language, the directions are coded as per below conditions. X@Y means – X is North of Y
X%Y means – X is South of Y X#Y means – X is East of Y X\$Y means – X is West of Y @ and \$ means the distance between the two points is either 4m or 8m. % and # means the distance between the two points is either 3m or 7m. XY > WZ Means the distance between point X and point Y is greater than that

of point W and point Z. Example: A @ B and A \$ B means A is north of B and A is west of B respectively and the distance between A and B is either 4m or 8m and so on. Condition: D#E, F%E, G@I, H#I, G\$F, H@K, L#K, DE > KL, GI < GF, IH = KL

Ques. 128. In which direction does E lie from I?

1. North-west
2. South
3. South-west
4. North-east
5. None of these

Correct Option - 4

Ques. 129. What is the minimum distance between I and K?

1. 13m
2. 8m
3. 73m
4. 113m
5. Can't be determined

Correct Option - 5

Ques. 130. What is the total distance and direction of I relative to F?

1. 12m, North-east
2. 10m, South-east
3. 12m, South-west
4. 8m, South
5. None of these

Correct Option - 3

Ques. 131. Neural headphones are rapidly developing non-invasive brain control for activities such as browsing and gaming. Brainwave sensors could allow hands-free operation and improve convenience and accessibility. Which argument below most strongly supports the view that this technology will transform interaction with devices?

- I. Neural technology in headphones is interesting, but many new technologies don't achieve mass adoption.
 - II. Neural headphones allow hands-free control, improving convenience and accessibility for all users, especially those with mobility issues.
 - III. While neural headphones are innovative, they might be expensive, limiting their use to a small group.
1. Only I
 2. Only II
 3. Only III
 4. Both I and II
 5. Both II and III

Correct Option - 2

Ques. 132. Global technology firms are investing substantially in biodegradable electronics to tackle environmentally harmful electronic waste. What could explain this increasing focus?

1. There is a lack of demand for conventional technology.
2. Consumers prefer products that break down quickly.
3. Traditional electronics no longer meet industry standards.
4. Companies want to produce cheaper products for a larger profit margin.
5. Governments are enacting stricter rules on waste disposal, encouraging eco-friendly solutions.

Correct Option - 5

Ques. 133. From each option, take the first vowel from the left in word 1; the third consonant from the right in word 2; the letter immediately after the vowel from the left in word 3; the first consonant from the left in word 4; and the letter immediately before the vowel from the right in word 5. Which option yields letters that can form at least two meaningful words?

1. Plate, Sword, Crate, Fresh, Mend
2. Brain, Scope, Misty, Drift, Hope
3. Stain, Bread, Flash, Crack, Line
4. Frost, Blind, Smoke, Patch, Leaf
5. None of these

Correct Option - 5

Directions (134-137): Study the following information carefully and answer the questions given below:
Series 1: 1 & I @ 4 % D 9 ~ G 2 # K * 5 T \$ 7 Q 3 P 6 J H 8 M S ^ Series 2: % T 5 K 7 B # 9 F Ψ G 3 P ! L 1 H * Q 8 S 4 V ^ R & J 6 Series 3: 7 F O # Q 9 B 3 L @ R 1 K \$ A 8 Y Ψ H 4 G M @ N 2 % S
STEP I: The alphabets which are immediately succeeded by a symbol will change to its second succeeding letter
STEP II: The digits which are immediately preceded and immediately followed by a letter are changed with the letter of its place value according to English Alphabetical order. STEP III: The alphabets which are immediately followed by a number and immediately preceded by a symbol are changed to its opposite letter according to English Alphabetic Series. (Note: STEP II is applied after STEP I, STEP III is applied after STEP II)

Ques. 134. In Series 3, Step I, multiply all even digits that have a letter immediately before them.

1. 92
2. 64
3. 24
4. 36
5. None of these

Correct Option - 2

Ques. 135. In Series 3, Step III, how many letters have a symbol immediately before them and a letter immediately after them?

1. Five
2. Six
3. Four
4. Three
5. Two

Correct Option - 3

Ques. 136. In Series I, Step II, how many letters have symbols immediately on both sides?

1. One
2. Two
3. Three
4. None
5. Four

Correct Option - 2

Ques. 137. Add the second number from the right in Step III of each series.

1. 15
2. 17
3. 20
4. 16
5. 21

Correct Option - 5

Ques. 138. In 'BIODEGRADABLE', replace every consonant by the letter four positions after it and every vowel by the next alphabet letter. Remove repeated letters. What is the product of the alphabet values of the remaining letters?

1. 1452
2. 1936
3. 2420
4. 1760
5. None of these

Correct Option - 3

Ques. 139. A company intends to raise productivity by allowing employees to choose starting and finishing times within a specified range. Which assumptions below are implicit in this plan?

- I. Flexible work hours will help employees manage their work-life balance better, potentially increasing productivity.
- II. The company assumes that employees will use flexible hours responsibly without compromising work quality.
- III. Flexible work hours are always more effective than traditional fixed schedules in boosting employee productivity.

1. Only III
2. Only I
3. Both II and III
4. Both I and II
5. All I, II and III

Correct Option - 2

Ques. 140. Facing more cyber threats, a large financial institution intends to invest more in advanced cybersecurity to safeguard customer data and preserve trust. Which assumptions below are implicit?

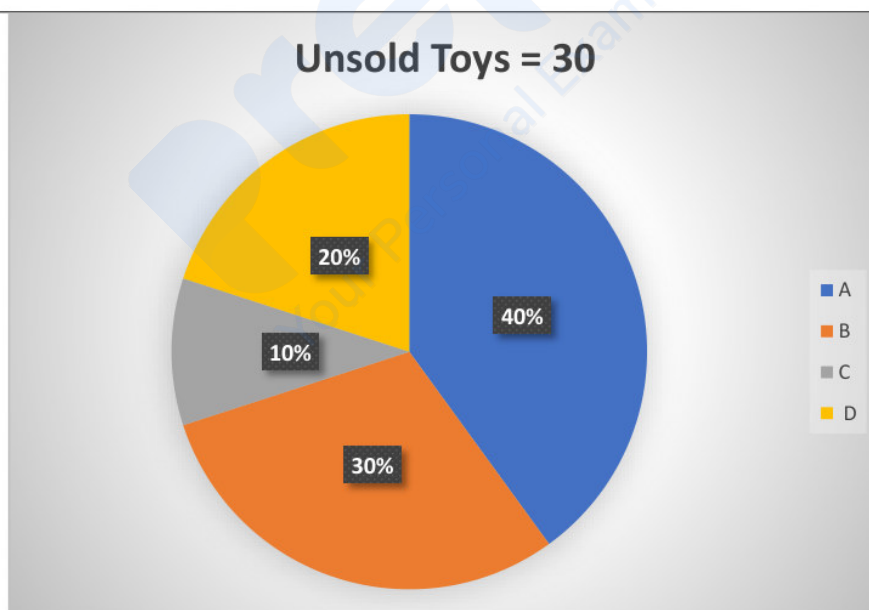
- I. Cyber threats are more concerning for financial institutions than for other industries.
 - II. Customers will avoid doing business with the financial institution if they perceive their data as vulnerable.
 - III. Advanced cybersecurity measures are essential for protecting sensitive financial data.
1. Only I
 2. Only II
 3. Both I and III
 4. Only III
 5. All I, II and III

Correct Option - 4

Directions (141-145): Read the following pie chart and table carefully and answer the questions given below. The pie chart shows the percentage distribution of total number of unsold toys (metallic and plastic) by four (A, B, C and D) different companies. The table shows the difference between the metallic and plastic toys sold by these four companies. Note: (i) Total toys (metallic and plastic) manufactured by A, B, C and D are 40, 33, 25, and 38 respectively.

(ii) Metallic sold are more than plastic toys sold by each company.

(iii) Total toys manufactured = Total toys (metallic and plastic) sold + total toys unsold (metallic and plastic)



Companies	Difference between the metallic and plastic toys sold
A	2
B	12
C	3
D	5

Ques. 141. Calculate the difference between metallic toys sold by A and C combined and unsold toys of B and D combined.

1. 11
2. 14
3. 12
4. 15
5. 18

Correct Option - 2

Ques. 142. E manufactures 40% more toys than C and sells half as many as C and D combined. By what percentage are E's unsold toys more or less than C's plastic toys sold?

1. 5%
2. 10%
3. 1.5%
4. 2.5%
5. 0%

Correct Option - 5

Ques. 143. D's unsold metallic toys equal 10% of its metallic toys sold. What is the difference between all plastic toys manufactured by D (sold and unsold) and all toys sold by A?

1. 12
2. 11
3. 10
4. 14
5. 13

Correct Option - 1

Ques. 144. What is the ratio of plastic toys sold by A and D combined to unsold toys of C and B combined?

1. 29:12
2. 28:15
3. 27:11
4. 23:19
5. 21:17

Correct Option - 2

Ques. 145. The average of C's toys sold and A's plastic toys sold equals what percentage of D's metallic toys sold?

1. 50%
2. 75%
3. 80%
4. 66.67%
5. None of these

Correct Option - 3

Directions (146–148): Find the pattern of the series and answer the question given below. Series: X, 168, 172, 145, Y, Z

Ques. 146. Determine the eighth term of the series.

1. 271
2. -324
3. -271
4. 324
5. -218

Correct Option - 3

Ques. 147. Which statements below are correct?

- (i) X is greater than Y
(ii) Z is square of even number
(iii) X is less than Z

1. All (i), (ii) & (iii)
2. Both (ii) & (iii)
3. Both (i) & (iii)
4. Both (i) & (ii)
5. None of the above

Correct Option - 4

Ques. 148. Calculate $Y + Z$.

1. 182
2. 167
3. 197
4. 198
5. 209

Correct Option - 3

Ques. 149. A man invests Rs 5000 at 12% yearly simple interest for t years. He then invests twice the interest from that scheme in another scheme at 15% yearly for 5 years. If the second scheme returns Rs 6300 in total, determine t .

1. 6
2. 1
3. 2
4. 4
5. 3

Correct Option - 5

Ques. 150. Train A is 200 m long and passes a pole in 8 seconds. Train B passes a 150 m platform in 25 seconds and is 150 m longer than A. How long do they take to pass each other travelling in opposite directions?

1. $135/11$ seconds
2. $119/12$ seconds
3. $111/16$ seconds
4. $120/7$ seconds
5. $110/9$ seconds

Correct Option - 5

Directions (151-154): Read the following table carefully and answer the questions given below. The table shows the ratio of the number of pens to the number of sharpeners in three boxes and the difference between the probability of picking a pen and the probability of picking an eraser in these boxes. The table also shows the total number of sharpeners and erasers in these boxes.

Boxes	Pens: Sharpeners	Difference between the probability of picking a pen and the probability of picking an eraser	Total number of sharpeners and erasers
A	4:3	$\frac{2}{9}$	10
B	3:4	$\frac{3}{17}$	11
C	3:2	$\frac{1}{11}$	13

Note: Number of pens in each box is more than the number of erasers.

Ques. 151. What is the ratio of erasers in C and B combined to pens in A?

1. 1:3
2. 4:5
3. 5:4
4. 3:2
5. 5:3

Correct Option - 3

Ques. 152. In A, sharpeners are P times the erasers; in B, pens are Q times the erasers. Which statements below are correct?

- I. $P > Q$
 - II. $4P = 3Q$
 - III. $Q : P = 4 : 3$
1. Both I & II
 2. All I, II & III
 3. Only II
 4. Both II & III
 5. Only I

Correct Option - 4

Ques. 153. Calculate the combined number of sharpeners in all boxes.

1. 22
2. 14
3. 18
4. 15
5. 20

Correct Option - 5

Ques. 154. Let X be the average number of pens, sharpeners and erasers in A. Which option correctly describes X?

1. X is an even number
2. X is a perfect number
3. Both (a) & (b)
4. $X > 8$
5. X is an odd number

Correct Option - 3

Directions (155-157): Find the pattern of the series and answer the question given below. Series I: 8, 9, 17, 52, $25A+7$, 1036, B

Ques. 155. Which statements below are correct?

- (i) $B/113 + A > 67$
- (ii) $\sqrt{B} + 26 = 79$
- (iii) A is completely divisible by first term of the series I.
- 1. All (i), (ii) & (iii)
- 2. Both (i) & (iii)
- 3. Only (iii)
- 4. Both (i) & (ii)
- 5. None of the above

Correct Option - 1

Ques. 156. Determine B.

- 1. 6615
- 2. 6516
- 3. 6115
- 4. 5215
- 5. 6215

Correct Option - 5

Ques. 157. Series II begins with $A + 5$ and uses the pattern of Series I. Determine its fourth term.

- 1. 27
- 2. 82
- 3. 327
- 4. 1636
- 5. 89

Correct Option - 2

Directions (158-162): Solve equations I and II, then select the option describing the relationship between x and y.

- 1. If $x > y$
- 2. If $x \geq y$
- 3. If $x < y$
- 4. If $x \leq y$
- 5. If $x = y$ or no relation can be established between x and y

Ques. 158.

I. $5x^2 + 6x + 1 = 0$

II. $100y^2 + 25y + 1 = 0$

Correct Option - 4

Ques. 159.

I. $2x^2 - 17x + 21 = 0$

II. $y^2 - 16y + 64 = 0$

Correct Option - 3

Ques. 160.

$$\text{I. } x^2 - 3x + 2\frac{2}{9} = 0$$

$$\text{II. } y = \sqrt{\sqrt{\frac{2401}{625}}}$$

Correct Option - 5

Ques. 161.

$$\text{I. } x^2 - 1\frac{3}{10}x + \frac{21}{50} = 0$$

$$\text{II. } y^2 - 1\frac{4}{5}y + \frac{4}{5} = 0$$

Correct Option - 3

Ques. 162.

$$\text{I. } 4x^2 - 81 = (8-5)x^2$$

$$\text{II. } y^2 + 11y + 14 + 9y = -86$$

Correct Option - 1

Ques. 163. P completes half the work in 4 days. P and R work together for 2 days, then both leave. Q finishes the rest in 3 days. Q needs 4 days more than P to do the entire work alone. How many days would R need alone?

1. 4
2. 6
3. 2
4. 7
5. 10

Correct Option - 1

Ques. 164. Profit on two diamonds equals the cost of four diamonds. Each diamond has the same cost, selling and marked prices. If marked price : selling price is 6 : 5, determine marked price : cost price.

1. 12:5
2. 5:18
3. 18:5
4. 10:7
5. 24:5

Correct Option - 3

Ques. 165. A boat takes 4 hours longer to travel D km downstream than D - 116 km upstream. Its still-water speed : current speed is 9 : 2. It covers 176 km downstream in 8 hours. How long will it take to travel D - 60 km upstream?

1. 6.5 hours
2. 8 hours
3. 7.5 hours
4. 8.4 hours
5. 9 hours

Correct Option - 3

Ques. 166. Rs X is shared among P, Q, R, S and T. P and Q together receive Rs 500 more than R; R and S together receive Rs 1600 more than T. S receives Rs 600 more than T, and R : T is 5 : 3. Determine X.

1. 4600
2. 4700
3. 4500
4. 3900
5. 4300

Correct Option - 5

Ques. 167. A and B invest Rs 520 and Rs (640 + x) in a business. B withdraws Rs (2x - 40) after 6 months. Their year-end profit ratio A : B is 26 : 3. Determine x.

1. 20
2. Can't be determined
3. 45
4. None of these
5. 60

Correct Option - 2

Ques. 168. An X-litre milk-water mixture contains 40% water. After removing 20 litres of mixture and adding X/2 litres of milk, milk : water becomes 43 : 12. Determine X.

1. 40
2. 20
3. 25
4. 50
5. 60

Correct Option - 4

Directions (169-174): Determine the approximate value of the question mark in each expression.

Ques. 169.

$$18.02 \times 6.02^2 - 112.03 = ? \times 3.98$$

1. 127
2. 142
3. 134
4. 119
5. 153

Correct Option - 3

Ques. 170.

$$11.02 \times 1.99^2 + 87.98 \div \sqrt{5} = ?$$

1. 67
2. 98
3. 88
4. 73
5. 54

Correct Option - 3

Ques. 171.

$$\sqrt{15} + \sqrt{36.01} \times \sqrt{49.03} = ?$$

1. 59
2. 19
3. 23
4. 41
5. 46

1

Correct Option - 5

Ques. 172.

$$2.99 \times 4.99 + 7.02 \times 8.02 - 626^{\frac{1}{4}}$$

1. 109
2. 29
3. 43
4. 66
5. 88

Correct Option - 4

Ques. 173.

$$78.22 + 15.99 \times 1.98^2 - 106.03 = ?^2$$

1. 2
2. 1
3. 12
4. 8
5. 6

Correct Option - 5

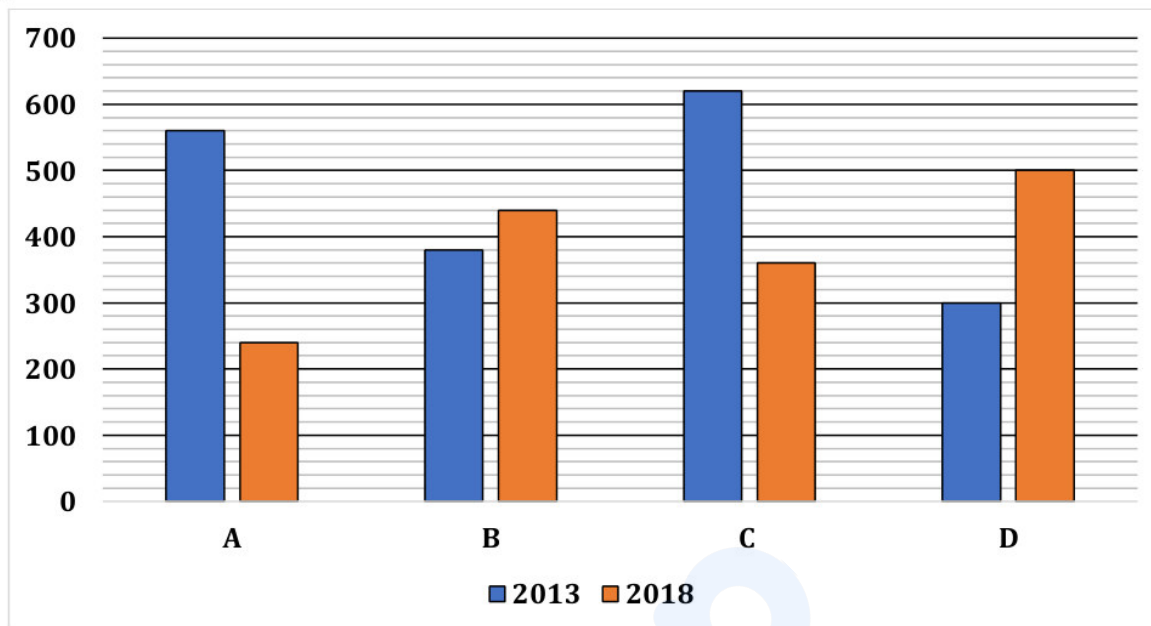
Ques. 174.

$$81.03 \div 9.02 + 4.78^2 - 27.011 = \sqrt{?}$$

1. 25
2. 36
3. 16
4. 81
5. 49

Correct Option - 5

Directions (175-180): Read the following bar graph carefully and answer the questions given below. The bar graph shows the total number of people who votes in two different years in four different cities.



Ques. 175. In 2013, 20% of votes in C were invalid, and invalid votes in D : C were 7 : 4. Calculate the difference between valid votes in C and D.

1. 456
2. 452
3. 432
4. 413
5. 409

Correct Option - 4

Ques. 176. In A in 2018, male : female voters were 5 : 7 and $\frac{3}{8}$ of all votes were invalid. Female valid votes were 50% of all valid votes. What is the difference between male valid and male invalid votes?

1. 50
2. 25
3. 75
4. 10
5. 80

Correct Option - 1

Ques. 177. Let X be the difference between voters in B in 2018 and voters in D in 2013. Which statements below about X are correct?

- I. $X > 120$
- II. $X < 150$
- III. $X = \text{Total number of people who votes in city A in 2018}$
- 1. Both I & III
- 2. All I, II & III
- 3. Both I & II
- 4. Only I
- 5. None

Correct Option - 3

Ques. 178. Voters in E in 2013 numbered 25% more than the average voters in C and A in 2018. If 66.67% of E's 2013 votes were valid, how many were invalid?

- 1. 135
- 2. 120
- 3. 125
- 4. 150
- 5. 105

Correct Option - 3

Ques. 179. Voters in A in 2020 numbered $\frac{3}{5}$ of D's voters in 2013. In A in 2020, male : female voters were 5 : 4. Female voters in A in 2020 equal what percentage of D's voters in 2018?

- 1. 15%
- 2. 12%
- 3. 20%
- 4. 24%
- 5. 16%

Correct Option - 5

Ques. 180. What is the ratio of the difference between D's and A's voters in 2013 to the average of B's and C's voters in 2018?

- 1. 11:19
- 2. 13:20
- 3. 12:23
- 4. 17:21
- 5. 10:17

Correct Option - 2

Directions (181-182): Read the following information carefully and answer the questions given below.
The average of total items manufactured in 2021 and 2022 by A, B, and C is 1500 and 1650, respectively. 20% and $\frac{1}{5}$ th of the total items manufactured in 2021 and 2022, respectively, by B. Total items manufactured by C in 2021 are 33.33% more than that of B, and the total items manufactured by A in both years are 4000.

Ques. 181. Calculate the difference between C's combined production in both years and A's production in 2022.

1. 1960
2. 2340
3. 1450
4. 1880
5. 1920

Correct Option - 1

Ques. 182. B's production in 2022 equals what percentage of C's production in 2021?

1. 77.5%
2. 82.5%
3. 87.5%
4. 66.67%
5. 62.5%

Correct Option - 2

Directions (183-187): Read the following information carefully and answer the questions given below. The information about a company conducted interviews over three consecutive days i.e. Monday, Tuesday, and Wednesday for various role. Total candidates (males and females) interviewed on these three days are 420. The ratio of male candidates interviewed on Monday to the female candidates interviewed on Tuesday is 4:3, and the female candidates interviewed on Monday are 10 less than that on Tuesday. Total candidates (males and females) interviewed on Tuesday are 190, and male candidates interviewed on Wednesday are 20% more than the female candidates interviewed on Monday. The average number of male candidates interviewed on Monday is 90.

Ques. 183. What is the ratio of female candidates interviewed on Wednesday to male candidates interviewed on Monday?

1. 4:1
2. 3:4
3. 1:3
4. 2:1
5. 1:2

Correct Option - 5

Ques. 184. By what percentage are Tuesday's female interviewees more or less than all Wednesday interviewees?

1. 25%
2. 32.5%
3. 40%
4. 66.67%
5. 33.33%

Correct Option - 3

Ques. 185. Calculate the difference between male interviewees on Wednesday and female interviewees on Monday.

1. 8
2. 5
3. 14
4. 10
5. 25

Correct Option - 4

Ques. 186. On Tuesday, 20% of male interviewees are rejected and 35% of female interviewees are selected. How many candidates of both genders are selected that day?

1. 145
2. 110
3. 125
4. 130
5. 100

Correct Option - 3

Ques. 187. How many more or fewer are Monday's total interviewees than the female interviewees across all three days?

1. 15
2. 10
3. 20
4. 30
5. 40

Correct Option - 3

Directions (188-190): The following questions are accompanied by three statements (I), (II), and (III). You have to determine which statement(s) is/are sufficient /necessary to answer the questions.

Ques. 188. Determine the boat's speed in still water.

I. Speed of stream is two-third of speed of boat in still water

II. The boat covers 20 km in 2 hours in downstream

III. The boat covers 10 km in 5 hours in upstream.

1. only statement II is sufficient
2. Any two are sufficient
3. I and II or III are sufficient
4. Only statement III is sufficient
5. None of these

Correct Option - 2

Ques. 189. Determine the amount of profit earned.

- I. If no discount is given, profit would be 40%
 - II. 30% discount is offered on marked price.
 - III. Selling price is more than cost price by 40%.
- 1. Only III
 - 2. All I, II and III
 - 3. Only II and III
 - 4. Cannot be answered even including all statement
 - 5. Only I and III

Correct Option - 4

Ques. 190. Determine the train's speed.

- I. The train crosses 300 m long platform in 45 seconds.
 - II. The train crosses another stationary train of same length in 60 seconds.
 - III. The train crosses a single pole in 30 seconds.
- 1. I and II or III
 - 2. Only I
 - 3. II and III both
 - 4. Only III
 - 5. I and II both

Correct Option - 1
