



## SBI CLERK MAINS MODEL TEST- 39

### GENERAL AWARENESS

1. Which among the following payment bank has conducted India's First Floating Financial Literacy Camp with an initiative called 'Niveshak Didi'?  
 1) Paytm payment bank                      2) Airtel payment bank  
 3) Jio payment bank                        4) India Post Payments Bank  
 5) Fino Payments Bank
2. Garden Reach Shipbuilders and Engineering Limited (GRSE), Kolkata has been awarded the 'Rajbhasha Kirti Puraskar'. Which ministry has granted this award?  
 1) Ministry of Power                      2) Ministry of Home Affairs  
 3) Ministry of Law and Justice        4) Ministry of Minority Affairs  
 5) Ministry of Social Justice and Empowerment
3. Tata Consultancy Services (TCS) is India's most valuable brand in 2022 with a brand value of \$45.5 billion followed by which bank?  
 1) Indian bank                              2) ICICI Bank                      3) Indian Overseas bank  
 4) HDFC Bank                              5) State Bank of India
4. The Appointments Committee of the Cabinet has approved the appointment of who among the following as Chairman & Managing Director of India Trade Promotion Organisation (ITPO) in October 2022?  
 1) Rahul Kumar Shrawat                  2) V.G. Aravindanayagi  
 3) Shashank Priya                          4) Vibhu Nayar                      5) Pradeep Singh Kharola
5. Who has become the first Indian Wrestler to win Gold Medal at U-23 World Wrestling Championships?  
 1) Sajjan Bhanwala                      2) Aman Sehrawat                  3) Nitesh Gupta  
 4) Vikas Kumar                              5) Ankush Panghal
6. As per the report in October 2022, Malabar Gold and Diamonds has become the first jeweller in India to import 25kg of gold under the Comprehensive Economic Partnership Agreement (CEPA) between India and the UAE. The gold has been imported through which bank?  
 1) State Bank of India                      2) HDFC Bank                      3) Axis Bank  
 4) ICICI Bank                                  5) Canara Bank
7. Which country will host Asian Games in 2023?  
 1) Malaysia                      2) Singapore                      3) India                      4) Japan                      5) China
8. The Indian Space Research Organization (ISRO) has turned its attention to \_\_\_\_\_ and is collaborating with Japan to examine the moon's dark side, following trips to the moon and Mars.  
 1) Mercury                      2) Jupiter                      3) Venus                      4) Saturn                      5) Neptune
9. Who is the current External Affairs Minister of India?  
 1) Sushma Swaraj                      2) Anurag Thakur                      3) Amit Shah  
 4) Subrahmanyam Jaishankar        5) Raj Nath Singh
10. The Indian government has activated bilateral air service agreements with 116 countries in August 2022, which of the following statement is TRUE for bilateral air service agreements?  
 A) Any designated foreign airline can operate to/from a point in India if it is designated as a point of call in the bilateral Air Services Agreement (ASA)  
 B) Indian designated carriers are free to mount scheduled operations to/from any international airport  
 C) Any designated foreign airline company is free make rules with respect to Indian Airports  
 1) (A) and (B) only                      2) (B) and (C) only                      3) (C) only  
 4) (A), (B) and (C) only                  5) (B) only

11. World Savings Day is observed on the 31st of October 2022 every year. What is the theme of World Savings Day 2022?  
1) Understanding the importance of savings  
2) Saving prepares you for a better future 3) When you save a bit, big things follow  
4) Savings can make all the difference 5) The Ethics of Savings and Development
12. Which bank has signed up as participant in the Open Network for Digital Commerce (ONDC), an initiative of the ministry of commerce and industry, to enable early adoption of the network among its customers?  
1) HDFC Bank 2) Yes Bank 3) IDFC First Bank 4) ICICI Bank 5) Axis Bank
13. How many Small Finance Banks (SFBs) are currently operational in India?  
1) 11 2) 10 3) 07 4) 08 5) 12
14. Indian Navy signed an agreement on White Shipping Information Exchange with Which of the following Navy to promote greater transparency in the Maritime Domain?  
1) Australian 2) New Zealand 3) China 4) United States 5) England
15. Home Minister Amit Shah has approved the release of how many rupees as Central share of the State Disaster Mitigation Fund (SDMF) to Uttar Pradesh, Punjab and Goa for 2021-22?  
1) Rs 380 crore 2) Rs 410 crore 3) Rs 488 crore 4) Rs 509 crore 5) Rs 600 Crore
16. Which country launches six satellites with a new solid propellant rocket ZK1A, from Jiuquan Satellite Launch Center?  
1) Russia 2) South Korea 3) Japan 4) China 5) United Kingdom
17. Who was appointed as Ambassador of India to the Republic of Madagascar?  
1) Suresh Wilson 2) Bandaru Wilsonbabu 3) Raju Basu  
4) Abhay Kumar 5) Rajeev Mehta
18. Which of the following banks has released a way of living-concentrated salary account that will be available to all corporate in India?  
1) Kotak Mahindra Bank 2) HDFC Bank 3) ICICI Bank  
4) Bank of Baroda 5) Federal Bank
19. Prime Minister Narendra Modi dedicated to the nation the 2nd Generation (2G) Ethanol Plant in which State of India?  
1) Madhya Pradesh 2) Himachal Pradesh 3) Gujarat  
4) Punjab 5) Haryana
20. Recently which Ministry is celebrated 150th Birth Anniversary of 'Maharishi Aurobindo' on 15 August 2022?  
1) Ministry of Tribal Affairs 2) Ministry of Rural Development  
3) Ministry of Home Affairs 4) Ministry of Culture 5) Ministry of Tourism
21. National Bank for Agriculture and Rural Development (NABARD) sanctioned \_\_\_\_\_ to upgrade school infrastructure in rural schools in Punjab.  
1) Rs 222 Crore 2) Rs 200 Crore 3) Rs 420 Crore 4) Rs 314 Crore 5) Rs 250 Crore
22. Under which of the following sections of RBI Act, 1934 the composition of central board of Reserve Bank of India is defined?  
1) Section 20 2) Section 27 3) Section 24 4) Section 42 5) Section 8
23. Ex Vajra Prahar 2022 is a joint Special Forces exercise of India with which country?  
1) Sri Lanka 2) Singapore 3) Russia 4) United States 5) France
24. Which of the following university has signed an MoU with the Indian Navy to establish a long-term symbiotic relationship for Academic Cooperation?  
1) University of Delhi 2) Amity University 3) Allahabad University  
4) Jawaharlal Nehru University 5) University of Hyderabad
25. Who is present the Foreign Secretary of India?  
1) Ajay Bisaria 2) Deepak Sharma 3) Vinay Mohan Kwatra  
4) Manjeev Singh Puri 5) Viral Acharya
26. Which of the following statements is/are correct about short-term co-operative credit structure in India?  
1) Primary Agricultural Credit Societies (PACS) are outside the purview of the Banking Regulation Act, 1949 and hence not regulated by the Reserve Bank of India.  
2) PACS constitute the lowest tier of the four-tier Short-term cooperative credit in India.  
3) StCBs/DCCBs are registered under the provisions of State Cooperative Societies Act of the State concerned and are regulated by the Reserve Bank.  
4) Both (1) and (2) 5) Both (1) and (3)

27. Where President Droupadi Murmu was inaugurated the Integrated Cryogenic Engines Manufacturing Facility of HAL?  
1) Mumbai 2) Bengaluru 3) Delhi 4) Hyderabad 5) Pune
28. What is full form of INFINET?  
1) Internal Financial Networking 2) International Financial Networking  
3) Indian Financial Network  
4) Inland Financial Network 5) Indian Federation Network
29. Which of the following has topped amongst all Ministries/Departments for resolving Public Grievances in the ranking report published by Department of Administrative Reforms and Public Grievances for the month of August 2022?  
1) UIDAI 2) UGC 3) MyGov 4) RBI 5) Income Tax
30. What is the capital city of Kyrgyzstan?  
1) Dushanbe 2) Tashkent 3) Bishkek 4) Santiago 5) Baku
31. Which of the following state government has issued an order to increase the reservation for the Scheduled Tribe (ST) communities from 6% to 10%?  
1) Andhra Pradesh 2) Telangana 3) Sikkim  
4) Tamil Nadu 5) Maharashtra
32. What is the Repo Rate after the six-member Monetary Policy Committee (MPC) of the Reserve Bank of India (RBI) increased the repo rate in December 2022?  
1) 5.70% 2) 6.15% 3) 6.25% 4) 6.50% 5) 5.80%
33. Which of the following statement is/are correct?  
A) Statutory Liquidity Ratio or SLR can be maintained in either gold or cash.  
B) Cash Reserve Ratio or CRR needs to be maintained only in cash.  
C) At the time of high inflation in the economy, RBI decreases the CRR.  
1) (A) and (B) 2) (A) only 3) (B) only 4) (B) and (C) 5) (C) only
34. Which of the following committees did recommend the concept of working capital term loan?  
1) Usha Thorat Committee 2) S.L. Kapoor Committee  
3) Nayak Committee 4) Narsimhan Committee 5) Tondon Committee
35. In how much amount, the Prosus backed, PayU has acquired 100% of the equity share capital of an online payments firm, BillDesk?  
1) \$5.7 billion 2) \$4.7 billion 3) \$3.7 billion 4) \$2.7 billion 5) \$6.7 billion
36. Which of the following space research centres has designed and developed the Inflatable Aerodynamic Decelerator (IAD) that was successfully demonstrated by Indian Space Research Organisation (ISRO)?  
1) AISRO Inertial Systems Unit 2) BU R Rao Satellite Centre  
3) CLiquid Propulsion Systems Centre 4) Vikram Sarabhai Space Centre  
5) EISRO Propulsion Complex
37. Which among the following is a qualification of the Chief Justice of India (CJI)?  
1) The CJI should be a citizen of India  
2) A person has been for at least five years a Judge of a High Court or two or more such Courts in succession  
3) The retirement age of Supreme Court judges is 65 years  
4) Only (1) and (2) 5) All (1), (2) and (3)
38. Which state government has launched the 'Nalaya Thiran' skilling programme for students under 'Naan Mudhalvan'?  
1) Andhra Pradesh 2) Tamil Nadu 3) Meghalaya 4) Odisha 5) Kerala
39. Roshni Nadar Malhotra has retained her position as the richest woman in India. She is the Chairperson of which company?  
1) Accenture 2) Tech Mahindra 3) Cognizant  
4) Wipro 5) HCL Technologies
40. WeCare FD scheme for senior citizens extended till March 31, 2023. This scheme is launched by which among the following bank?  
1) Bank of Baroda 2) Punjab National Bank 3) State Bank of India  
4) Canara Bank 5) Union Bank of India
41. Section 31 (2) of the Reserve Bank of India Act, 1934 prohibits of making or issuing of a expressed to be payable to bearer thereof\_\_\_\_\_.  
1) Cheque 2) Promissory Note 3) Bill of Exchange  
4) Demand Draft 5) Debit Card
42. Which state launched the 'Vidya Rath-School on Wheels' project?  
1) Assam 2) Arunachal Pradesh 3) Madhya Pradesh 4) Bihar 5) Sikkim

43. Which state government has signed a Memorandum of Understanding with Deloitte India, appointing it as a consultant for achieving the target of raising the state's economy to USD 1 trillion?  
1) Telangana 2) Karnataka 3) Odisha 4) Tamil Nadu 5) Uttar Pradesh
44. MMID is a seven digit number issued by banks for transfer of money .What does 'I' in MMID stand for?  
1) Identifier 2) Internet 3) Input 4) Ink 5) Immediate
45. Reserve Bank of India (RBI) has imposed a penalty of Rs 82 lakh on Jupiter Capital Private Ltd. Where is the headquarters of this non-bank lender based?  
1) Mumbai 2) Chennai 3) Lucknow 4) Bengaluru 5) New Delhi
46. Indian Navy and which among the following IIM has signed an MoU to explore Opportunities to train, up-skill, and re-skill Armed Forces Personnel?  
1) IIM Ahmedabad 2) IIM Calcutta 3) IIM Bangalore  
4) IIM Indore 5) IIM Nagpur
47. 'Udhwa Lake Bird Sanctuary' is located in which of the following state?  
1) Goa 2) Kerala 3) Jharkhand 4) Chandigarh 5) Nagaland
48. The Ministry of Culture has collaborated with which entity for 'India ki Udaan', an initiative to celebrate the achievements of India in its journey of 75 years since Independence?  
1) Meta 2) Google 3) Apple 4) Microsoft 5) Instagram
49. Which countries are associated with the 'Trans-Himalayan multi-dimensional connectivity network'?  
1) China and Nepal 2) India and Bangladesh 3) India and Nepal  
4) China and Bangladesh 5) India and Bhutan
50. Shri Amit Shah unveiled the statue of Lok Nayak Jayaprakash Narayan at Sitabdiara in which state?  
1) Assam 2) Chhattisgarh 3) Uttarakhand 4) Bihar 5) Sikkim

### ENGLISH LANGUAGE

**Directions (51-56):** In the given passage there are blanks, each of which has been denoted by (51), (52), (53), (54), (55) and (56). Beside each, a word / group of words is/are suggested in **bold**, which may or may not fit the blank appropriately. If the word / group of words given in **bold** fit(s) that blank, mark 'No replacement required', or mark that word, which fits the blank appropriately, from among the given options, as your answer. In case all the given options fit, mark 'All the options fit' as your answer.

The patents bench of the IPAB would have probably taken longer to **(divide)** \_\_\_\_\_ (51) had it not been for the limelight brought by the Novartis case. In any case, the disposal rate for patents at the IPAB did not justify its **(hindrance)** \_\_\_\_\_ (52). Patent disputes owing to their technological complexity were the IPAB's predominant time-consuming business after trademarks. In our study of the first decade of operation of the patents bench, we saw a paltry disposal rate of about 20 patent cases a year. Nearly 70% of the patent cases filed were either **(improbable)** \_\_\_\_\_ (53) at some stage or yet to be taken up for hearing. After the IPAB was set up, not more than 15 cases were transferred from all the High Courts to the IPAB. Going by this disposal rate, it would have taken another decade to dispose of the **(improbable)** \_\_\_\_\_ (54) applications, leave alone the new ones. The irony was that tribunals were established with the primary aim of speedy disposal of cases by specialised experts. The functioning of the IPAB is critical for the **(innovation)** \_\_\_\_\_ (55) ecosystem. Every patent granted by the Patent Office is a potential subject matter in appeal before the IPAB. An unjustified patent grant at the Patent Office, by error or oversight, can only be **(reformed)** \_\_\_\_\_ (56) in appeal.

51. 1) aggregate 2) establish 3) constitute  
4) compose 5) No change required
52. 1) permanence 2) longevity 3) endurance  
4) continuance 5) No change required
53. 1) pending 2) forthcoming 3) dependent  
4) impending 5) No change required
54. 1) indeterminate 2) pensile 3) pending  
4) ominous 5) No change required

55. 1) deviation 2) modification 3) habit  
 4) permutation 5) No change required
56. 1) corrected 2) changed 3) amended  
 4) revised 5) No change required

**Directions (57-63):** Read the given passage and answer the questions given below. Some words may be highlighted.

Global trade has been impacted after a container ship got stuck in the Suez Canal, the 193-km waterway that is pivotal in connecting Europe and Asia. Located in Egypt, the artificial sea-level waterway was built between 1859 and 1869 linking the Mediterranean Sea and the Red Sea. As the shortest route between the Atlantic Ocean and lands around the Indian and western Pacific Oceans, the canal is one of the busiest waterways in the world, negating the need to navigate around the Cape of Good Hope in Africa and thus cutting distances by up to 7,000 km.

The canal has had anything but smooth sailing in the 150 or more years since it was formally built. In fact, political, financial and technical problems have resulted in the canal shutting down five times, the last closure lasting eight years before reopening for navigation in June 1975.

In 1858, the Universal Suez Ship Canal Company was tasked to construct and \_\_\_\_\_ the canal for 99 years, after which rights would be handed to the Egyptian government. Despite facing multiple problems ranging from financial difficulties and attempts by the British and Turks to halt construction, the canal was opened for international navigation in 1869.

The French and British held most of the shares in the canal company. The British used their position to **sustain** their maritime and colonial interests by maintaining a defensive force along the Suez Canal Zone as part of a 1936 treaty. In 1954, facing pressure from Egyptian nationalists, the two countries signed a seven-year treaty that led to the withdrawal of British troops.

The canal **trade(A)** to be the lifeline for all **continues(B)** between the West and East as 10 per cent of the **global(C)** trade passes **through(D)** it every year. The average 50 ships that pass through it daily carry about \$9.5 billion worth of goods, every day. The freight and cargo include everything from crude oil to perishables.

Due to weather obstructions a giant container ship, MV Evergreen, on its way from China to the Netherlands ended up getting stuck in one of the canal's narrow stretches, thus blocking all traffic. Over 200 ships are stuck on both sides of the canal putting stress on global supply chains. The long-term impacts of this block will depend on how long it lasts, but some countries have already seen a rise in oil prices after the blockage.

57. Why Suez Canal is pivotal for trade between countries?  
 1) Suez Canal connects trade between Europe and Asian countries.  
 2) The canal acts as a shortcut to cargo ships cutting large distances.  
 3) The Canal is an artificial passage for large ships carrying crude oil.  
 4) Suez Canal connects the Mediterranean and the Red sea.  
 5) All the above
58. How did the construction of Suez Canal took place?  
 1) It was constructed by the British and the French companies.  
 2) The Turks and the British attempted to construct the canal.  
 3) The Universal Suez Ship Canal was originally tasked to construct the canal.  
 4) The canal was only owned and funded by the shares of French and British.  
 5) It was constructed by the Europeans to improve trade.
59. How did the ship MV Evergreen got stuck in the Suez Canal?  
 1) The ship got stuck in shallow waters of the canal.  
 2) The ship got stuck due to bad weather obstructions.  
 3) The captain of the ship was not well experienced.  
 4) The ship was exhausted due to its long journey and engines had failed.  
 5) The ship's propeller had hit the bottom of the Suez Canal.

60. Choose the true statement(s) from the given options, in according to the above passage.  
 I. The French and British held few of the shares in the canal company  
 II. The Obstruction of MV Evergreen ship is leaving an impact on the increase of oil prices.  
 III. The Suez Canal can be considered a lifeline for global trade connecting many countries.  
 1) only I      2) only II      3) I & II      4) II & III      5) I, II & III
61. In the passage a sentence has been underlined, and in this sentence four words have been given in bold denoted by (A), (B), (C) and (D). These words given in bold may need to be rearranged in a proper sequence to form a meaningful and grammatically correct sentence, suitable in the context of the passage. Identify the sequence and mark that as your answer. If no interchange is required, mark 'No interchange required' as your answer.  
 1) A-B      2) B-C      3) C-D      4) A-D      5) No interchange required
62. Which of the following is the MOST OPPOSITE in meaning to the word '**sustain**' as used in the passage?  
 1) nourish      2) hinder      3) resume      4) defend      5) adverse
63. Which of the following words can be used to fill the blank given in the passage?  
 1) distribute      2) objectify      3) operate      4) moderate      5) repair
- Directions (64-68):** There are three sentences following idiomatic expression, find out in which sentence or sentences the idiomatic expressed is used properly.
64. Upset someone's apple cart  
 A. They may also be friends of the chairman, so they are reluctant to upset the applecart.  
 B. We had planned to hold a get-together in the evening, but bad weather upset the applecart.  
 C. The increase in customs duty by the government has upset the applecart of those car companies who were importing most of their car parts.  
 1) Only A      2) Only B      3) Only C      4) All A, B, C      5) None of these
65. Keep someone at arm's length.  
 A. I think I found it easier than Nell to keep our engagement at arm's length.  
 B. Brian had tried to get close, but his father had kept him at arm's length.  
 C. Having pictures to colour will keep children at arm's length.  
 1) Only A      2) Only B      3) B and C      4) All A, B, C      5) None of these
66. Up in arm  
 A. Media has traditionally been up in arms with government of the day.  
 B. My mom was up in arms about the new salary cuts rumoured to be put in place.  
 C. The warehouse staff are up in arms because Rownall's been employing casual labour on the side.  
 1) A, B      2) B, C      3) C, A      4) All A, B, C      5) None of these
67. Drive a hard bargain  
 A. In the village pub, regulars drive a hard bargain to John and his father.  
 B. His father sent him to buy a horse, carefully instructing him how to drive a hard bargain.  
 C. The author tried to drive a hard bargain with the publisher on signing amount, but couldn't because he didn't have best sellers in his name.  
 1) Only A      2) B and C      3) Only C      4) All A, B, C      5) None of these
68. Bend over backwards  
 A. The hotel staff bent over backwards to make the visit of the dignitaries a memorable one.  
 B. The city council was forced to bend backwards o public pressure.  
 C. We are bending over backwards to ensure that the safeguards are kept in place.  
 1) Only A      2) only B      3) only C      4) A and C      5) None of these

**Directions (69-73):** Below a word is given followed by three sentences that consist of that word. Identify the sentence/s which best expresses the meaning of the word. Choose Option 5 (None of these) if the word is not suitable in any of the sentences.

69. **Tenacious**

- I. The main **tenacious** in the current crisis seems to be modern farming techniques.  
 II. The approach is as persistent and **tenacious** as it is conventional and unimaginative.  
 III. He thought it was a phone pest until police collared the **tenacious** with a phone tap.

1) only I                      2) only II                      3) only III                      4) I & II                      5) None of these

70. **Voracity**

- I. The main fault that has not changed in him is the **voracity** and inexpressive prose style.  
 II. Their **voracity** is legendary and even the most hardened warriors cannot repress a shiver if one speaks about them.  
 III. The analyst could retort only that the geometric proofs were **voracity** and inelegant.

1) only I                      2) only II                      3) only III                      4) I & II                      5) None of these

71. **Tender**

- I. Builders will be sent the specifications and asked to submit a **tender** for the work.  
 II. These fish are particularly fond of vegetable foods, and will usually eat **tender** aquatic animals.  
 III. The organizing committee has also issued a **tender** document calling for the mascot of the games.

1) only I                      2) only II                      3) only III                      4) I, II & III                      5) None of these

72. **Persecution**

- I. There's a law to protect refugees from forcible return to countries where they face **persecution**.  
 II. Person's leaving a communist party were normally presumed to be fleeing **persecution**.  
 III. They claimed to be victims of political **persecution** following the military crackdown on student protestors.

1) I, II & III                      2) only II                      3) II & III                      4) I & III                      5) None of these

73. **Disdain**

- I. The priest staggered to his feet and waddled off with an air of drunken **disdain**.  
 II. The faint **disdain** of her smile seemed to lift her high above her antagonist's reach.  
 III. Indeed they seemed to invite **disdain** by preaching openly in public places.

1) only I                      2) only II                      3) only III                      4) I & II                      5) None of these

**Directions (74-78):** The given sentence is divided into five parts (A),(B),(C),(D) and (E), and one of those parts is in bold. Consider the part in bold as grammatically correct. One of the remaining parts may contain an error and if the suggested replacement of the part given against the sentence can correct the sentence. That option is your answer.

74. The ASER survey provides data that (A) could facilitate intervention by the education system (B) in some respects, even if, going forward (C), **schools opt for a hybrid solution** (D) of partially reopening and online learning.(E)

- 1) No replacement required    2) The ASER survey provides data that  
 3) could facilitate intervention by the education system  
 4) in some respects, even if, going forward  
 5) of partially reopening and online learning

75. **The decision by the Paris-based watchdog**, (A) the Financial Action Task Force, last week (B) to retain Pakistan on its grey list (C) has clearly disappointed (D) the Imran Khan government.(E)

- 1) the Financial Action Task Force, last week    2) has clearly disappointed  
 3) to retain Pakistan on its grey list                      4) the Imran Khan government  
 5) No replacement required

76. The ICMR's approval, recently, of two indigenous (A) developed tests that are rapid, low-cost(B) and have high sensitivity and specificity (C) provides the much-needed boost (D) **to scale up daily testing without diluting accuracy.**(E)  
1) No replacement required  
2) The ICMR's approval, recently, of two indigenous  
3) developed tests that are rapid, low-cost  
4) and have high sensitivity and specificity  
5) provides the much-needed boost
77. **The decision to conduct the exam,**(A) when there is uncertainty about the ability (B) of students to reach the centres, was probably (C) bold, though it had not factored (D) in the lowest common denominator.(E)  
1) No replacement required  
2) when there is uncertainty about the ability  
3) of students to reach the centres, was probably  
4) bold, though it had not factored  
5) in the lowest common denominator
78. **While most tests done each day were** (A) the low sensitivity rapid antigen tests, the once (B) developed by the Delhi-based Institute of Genomics (C) and Integrative Biology, a CSIR institute, and IIT Kharagpur (D) will now enable the shift to more accurate tests.(E)  
1) the low sensitivity rapid antigen tests, the ones  
2) developed by the Delhi-based Institute of Genomics  
3) and Integrative Biology, a CSIR institute, and IIT Kharagpur  
4) will now enable the shift to more accurate tests 5) No replacement required

**Directions (79-84):** Read the following passage and answer the questions given below. Some words may be highlighted read carefully.

Management is a set of processes that can keep a complicated system of people and technology running smoothly. The most central characteristics of management include scheduling, accounting, organizing, staffing, controlling, and problem-solving. Leadership is a set of process that generates organisations in the first place or acclimatizes them to expressively changing situations. Leadership outlines what the impending should look like, bring into line people with that vision, and inspires them to make it happen despite the obstacles. This distinction is absolutely crucial for our purposes here: Successful transformation is 70 to 90 per cent leadership and only 10 to 30 per cent management. Yet for historic motives, numerous organisations today don't have much headship. And almost everyone thinks about the problems here as one of managing change. For most of this century, as we created thousands and thousands of large organizations for the first time in human history, we didn't have enough good managers to keep all those bureaucracies functioning. Thus many companies and academies developed management programmes, and hundreds and thousands of people were stimulated to learn managing on the job. And they did. But, people were taught little about leadership. To some degree, management was emphasized because it's easier to teach than leadership. But even more so, supervision was the chief item on the twentieth-century outline because that's what was needed. For every entrepreneur or business builder who was a leader, we needed hundreds of managers to run their ever growing enterprises. Regrettably, for us today, this importance on management has often been longstanding in corporate cultures that dishearten workers from learning how to lead. Ironically, past success is usually the key ingredient in producing this outcome. The condition, as I have perceived it on many cases, goes like this: victory creates some degree of market supremacy, which in turn produces much progress. After a while keeping the ever larger organizations under control becomes the primary challenge. So attention turns inward, and managerial competencies are nurtured. With a robust importance on supervision but not on headship, administration and an inward focus take over. But with continued success, the result mostly of market dominance, the problem often goes unaddressed and an unhealthy arrogance begins to evolve. All of these features then make any renovation struggle much more problematic. Arrogant managers can over evaluate their current performance



and competitive position, listen poorly, and learn slowly. Inwardly focused employees can have difficulty seeing the very forces that present threats and opportunities. Bureaucratic cultures a **smother** those who want to respond to shifting conditions. And the lack of leadership leaves no fore inside these organizations to break out of the morass.

79. Why, according to the author, is a distinction between management and leadership crucial?
- 1) Leaders are reactive whereas managers are proactive.
  - 2) Organisations are facing problems of not getting good managers.
  - 3) Organisations are pursuing the strategy of status quo.
  - 4) In today's context, organizations need leaders much more than managers in transforming them.
  - 5) None of these
80. Which of the following statements is NOT TRUE in the context of the passage?
- 1) Bureaucratic culture can smother those who want to respond to changing conditions.
  - 2) Leadership produces change and has the potential to establish direction.
  - 3) Pressure on managers comes mostly from within.
  - 4) Leadership centres on carrying out important functions such as planning and problem-solving.
  - 5) Managers believe that they are the best and that their idiosyncratic traditions are superior.
81. Which of the following is not the characteristic of bureaucratic culture?
- 1) Managers listen poorly and learn slowly.
  - 2) Managerial competencies are nurtured.
  - 3) Employees clearly see the forces that present threats and opportunities.
  - 4) Prevalence of unhealthy arrogance.
  - 5) Managers tend to stifle initiative and innovation.
82. Which of the following statement is/are definitely true in the context of the passage?
- (A) Bureaucracy fosters strong and arrogant culture.
  - (B) Leadership competencies are nurtured in large-size organizations.
  - (C) Successful transformation in organizations is 70 to 90 per cent leadership.
- 1) Only A and B
  - 2) Only A and C
  - 3) Only B and C
  - 4) Only B
  - 5) Only C
83. Which of the following is SIMILAR in meaning to the word SMOTHER as used in the passage?
- 1) Suppress
  - 2) Encourage
  - 3) Instigate
  - 4) Criticize
  - 5) Attack
84. Management education was emphasized in the management programmes because
- 1) Establishing direction was the main focus of organizations
  - 2) Motivating employees was thought to be done by managers
  - 3) Tactics for creating change was the focus of establishments
  - 4) Organizations wanted to create powerful guiding coalition
  - 5) management was the main item of agenda in organizations
- Directions (85-88):** Rearrange the given group of words (A), (B), (C), (D) and (E) in a proper sentence, so as to form a meaningful sentence. If **none** of the given combinations represent the correct sentence then mark the 'None of the given combination is correct' as the answer.
85. (A) The agreement comes amid a major push from China to back Iran, (B) trading partner, as it deals with the continuing (C) weight of sanctions re-instated following then U.S. (D) President Donald Trump's decision to withdraw from the Iranian nuclear deal (E) which counts on Beijing, its largest
- 1) ABDCE
  - 2) BCEDA
  - 3) AEBDC
  - 4) DECBA
  - 5) None of the given combination is correct
86. (A) the new great power in the region (B) and the arrival of the U.S. as (C) it controlled since the fall of the Ottoman Empire, (D) the Suez crisis also marked Great Britain's (E) dwindling influence in West Asia, a region
- 1) ABDCE
  - 2) BCEDA
  - 3) AEBDC
  - 4) DECBA
  - 5) None of the given combination is correct

87. (A) These two variants, along with another  
(B) infectivity and ability to somewhat reduce  
(C) the efficacy of vaccines are the only  
(D) ones internationally termed as 'Variants of Concern'  
(E) called the Brazilian variant, given their spread,  
1) ABDCE 2) BCEDA 3) AEBCD  
4) DECBA 5) None of the given combination is correct
88. (A) and cargo companies and even Egypt's national economy  
(B) As much as 13% of all maritime trade, from oil to automobiles,  
(C) pass through the canal every year, So a delay in  
(D) on export businesses, commodities, ship  
(E) reopening the channel will have a huge impact  
1) ABDCE 2) BCEDA 3) AEBCD  
4) DECBA 5) None of the given combination is correct

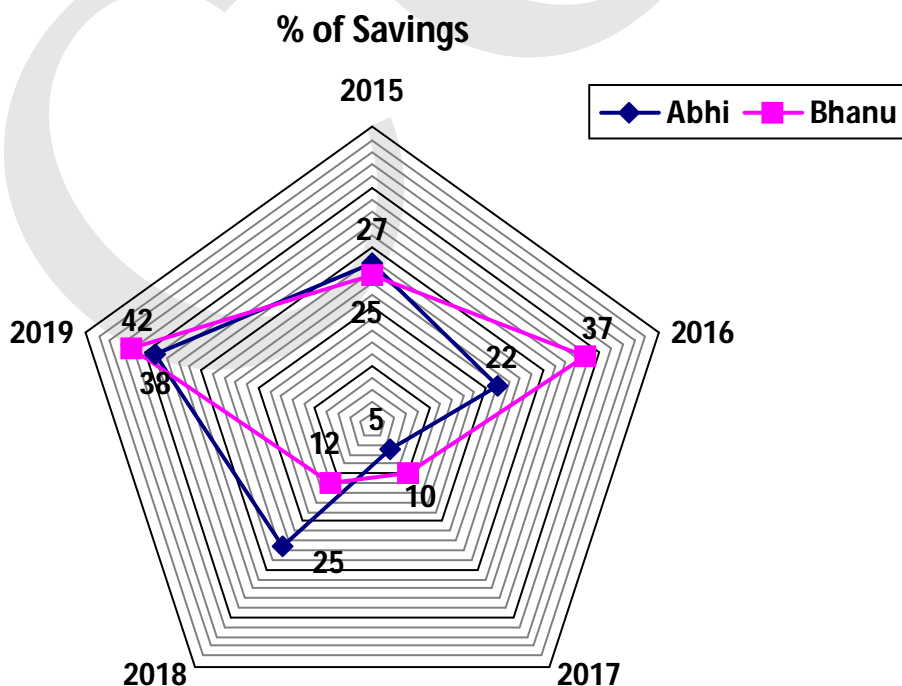
**Directions (89-90):** In each of the given questions, a word has been highlighted in the statement. In the options given below, a pair of words has been given. Find the pair of the word where the first word is the synonym of the highlighted word whereas the second word is the antonym of the given word.

89. The effects of the pandemic are expected to have a lasting impact on every **sphere** of activity, even as various nations are trying to revive their economies and protect livelihoods.  
1) pellet : amusement 2) avocation: ordure 3) globule : obsession  
4) retreat : driplet 5) None of these
90. The Supreme Court's interpretation of the Constitution has placed the people's right to information squarely within the **ambit** of fundamental rights, or Article 19(1)(a).  
1) incarceration : amplitude 2) restriction : expanse 3) extreme : realm  
4) expanse : limit 5) None of these

### QUANTITATIVE APTITUDE

**Direction (91-95):** Study the given information carefully and answer the following questions given below.

Three colleagues save certain percentage of their incomes in each year. Percentage of savings of Abhi and Bhanu, out of total income for each year is shown below in the graph.



**CHARAN SAVINGS:**

Charan saves 45% in the year 2015. Savings percentage in the year 2017 is 20% less than that in 2015. Percentage of savings in 2018 is half of the percentage of savings on 2019. Percentage of savings in 2018 is  $\frac{2}{9}$  times the percentage of savings in 2017. Percentage of savings in 2016 is 21.

91. If Abhi earns Rs. 63100, Rs.90420 in year 2016 and 2018 respectively, the amount Abhi saves in 2016 is **approximately** what percent of the amount he spends in the year 2018?  
 1) 32%                      2) 28%                      3) 20%                      4) 22%                      5) 15%
92. In 2018, Bhanu saves how much percent more/less than Charan, if Bhanu earns  $\frac{5}{8}$ <sup>th</sup> of amount which Charan earned in that year?  
 1) 10%                      2) 12.5%                      3) 4%                      4) 6.25%                      5) 6.67%
93. Abhi earns 175% of Charan's earnings in 2015. What will be Abhi's savings in that year if Charan earns Rs. 145000 in same year?  
 1) 68512.5                      2) 66512.5                      3) 68448.5                      4) 66448.5                      5) 68256.5
94. Due to some expenses, Bhanu loses 30% of his savings in year 2019, his new saving is what percent of amount spent by Abhi in 2018 (if the amount earned by Abhi in 2018 and Bhanu in 2019 is same)?  
 1) 30.94                      2) 42                      3) 37.69                      4) 39.2                      5) 40.27
95. If Bhanu, Charan earns Rs.245000, Rs. 373000 in year 2016 respectively, what is the average of their savings in that year?  
 1) 86480                      2) 85680                      3) 82490                      4) 84490                      5) 84280

**Direction (96-100):** What **approximate** value will come in the place of the question mark '?' in the following question?

96.  $350.97 \div 27.02 + (13.99)^2 \div 28.04 = ?$   
 1) 10                      2) 20                      3) 30                      4) 40                      5) 50
97.  $53.55 - 37.61 + 12.89 = ? + 24.01$   
 1) 5                      2) 10                      3) 15                      4) 20                      5) 25
98.  $104.8\% \text{ of } 80.05 - \left(\frac{3}{7}\right) \text{ of } 55.56 + 10.10 = ?$   
 1) 40                      2) 20                      3) 50                      4) 60                      5) 70
99.  $\left\{\frac{(540.34)}{(17.99)}\right\} \div \left\{\frac{(29.99)}{(449.89)}\right\} \times \left\{\frac{1}{(89.78)}\right\} = ?$   
 1) 25                      2) 10                      3) 15                      4) 5                      5) 20
100.  $(34.98)^2 \div (5.03)^2 \times 3.99 \times (6.99)^{-1} = ?$   
 1) 7                      2) 14                      3) 21                      4) 28                      5) 35

**Direction (101-105):** Following data is regarding people living in 5 societies of a city Vijayawada. Data given as percentage of adult Male and number of Adult females. Ratio between boy child and girl child ratio is also given:

Society	% of Adult males	Number of adult females	Boys child: Girls child
A	48%	----	6:5
B	----	1984	5:4
C	44%	1815	----
D	46%	----	3:2
E	52%	5x	2x:x

**Note:**

**Society A:** Total adult population is 3744. Adult males are 60% more than adult females.

**Society B:** Total people live in society are 6400. Total number of boys child and girls child is 1728.

**Society C:** Adult females are 33% of total population and boys child are 770 in the society.

**Society D:** Population of children is 20% of total population. Total adult females and children are 3240.

**Society E:** Total female population (Adult females + Girls child) is 2700.

101. Find the number of adult female in society D how much more or less than the adult females in society A?  
 1) 900      2) 460      3) 600      4) 800      5) 1200
102. Find the difference between total population of society A and C together and total population of society E?  
 1) 2400      2) 1780      3) 2560      4) 2800      5) 2250
103. Find the ratio of boy children to girl children is society B and D together?  
 1) 35: 26      2) 26: 35      3) 36: 29      4) 45: 26      5) 26: 77
104. Find the average of adult males in all societies (Except 'A') together?  
 1) 2568      2) 2942      3) 3124      4) 2760      5) 3450
105. Find the total population of all 5 societies in the city?  
 1) 30200      2) 32450      3) 28650      4) 36500      5) 45600

**Direction (106-110):** The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

106. Find difference between magnitude of square and that of rectangle if rectangle perimeter is equal to the perimeter of a square having area  $3136 \text{ m}^2$ .

**Statement I:** Breadth of the rectangle is 25% less than the length of the rectangle.

**Statement II:** Side of the square is 8 m more than 60% of the sum of the diagonals of the rectangle.

- 1) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.  
 2) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.  
 3) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.  
 4) Either statement (I) or statement (II) by itself is sufficient to answer the question.  
 5) Statements (I) and (II) taken together are not sufficient to answer the question.

107. Find the two-digit number?

**Statement I:** Sum of the digits of the number is 25% of the number.

**Statement II:** Thrice of the number is 30 more than the number obtained on interchanging the digits.

1) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

2) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

3) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

4) Either statement (I) or statement (II) by itself is sufficient to answer the question.

5) Statements (I) and (II) taken together are not sufficient to answer the question.

108. What is the selling price of an article if the ratio of marked price to that of the cost price of the article is 8: 5?

**Statement I:** On article, first discount of 20% and then discount of 10% is given and difference between these discounts is Rs 192.

**Statement II:** Difference between marked price and the cost price of that article is Rs 600 and the profit percent earned on selling the article is 15.2%.

1) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

2) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

3) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

4) Either statement (I) or statement (II) by itself is sufficient to answer the question.

5) Statements (I) and (II) taken together are not sufficient to answer the question.

109. If  $x : y = 11 : 9$  and  $y : z = 3 : 4$ , then find  $(x + y) - 1.5z = ?$

**Statement I:** Average of all three is two more than average of  $x$  and  $y$ .

**Statement II:** Sum of  $9\frac{1}{11}\%$  of  $x$  and  $11\frac{1}{9}\%$  of  $y$  is equal to  $(36)^{0.5}$

1) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

2) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

3) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

4) Either statement (I) or statement (II) by itself is sufficient to answer the question.

5) Statements (I) and (II) taken together are not sufficient to answer the question.

110. Find speed of boat in downstream?

**Statement I:** Time taken by a boat to cover 72 km in downstream is 2 hours less than time taken by a boat to cover 72 km in upstream.

**Statement II:** Boat takes 7.5 hours to cover 90 km in upstream.

1) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

2) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

3) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

4) Either statement (I) or statement (II) by itself is sufficient to answer the question.

5) Statements (I) and (II) taken together are not sufficient to answer the question.

**Direction (111-115):** In the given questions, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option:

111. In a family, father is 6 years younger than mother and son is 4 years elder than daughter.

**Quantity I:** Age of mother if age of father is 24 years.

**Quantity II:** Sum of ages of son and daughter if age of daughter is 12 years.

- 1) Quantity I > Quantity II      2) Quantity I  $\leq$  Quantity II  
3) Quantity I < Quantity II      4) Quantity I  $\geq$  Quantity II  
5) Quantity I = Quantity II or relation cannot be determined

112. Y is 25% more than X, while Z is 40% more than Y. Sum of X, Y and Z is 800.

**Quantity I:** Value of Z

**Quantity II:** 320

- 1) Quantity I > Quantity II      2) Quantity I  $\leq$  Quantity II  
3) Quantity I < Quantity II      4) Quantity I  $\geq$  Quantity II  
5) Quantity I = Quantity II or relation cannot be determined

113. Ratio between cost and marked price of an article is 5: 8 and shopkeeper allows three successive discounts of 25%, 10% and 'd'.

**Quantity I:** If shopkeeper made a profit of 2.6%, then find 'd'.

**Quantity II:** A man invested Rs. 6000 at the rate of 'R%' for three years on CI and gets a total amount of Rs. 6945.75. Find the value of 'R%'.

- 1) Quantity I > Quantity II      2) Quantity I  $\leq$  Quantity II  
3) Quantity I < Quantity II      4) Quantity I  $\geq$  Quantity II  
5) Quantity I = Quantity II or relation cannot be determined

114. Cost of fencing a rectangular park, which length is 24 m and ratio of area to perimeter of rectangle is 24: 5 is 1200 Rs.

**Quantity I:** If costing a square park per meter is same as costing of rectangular park per meter and side of square park is equal to length of rectangular park. Total cost of fencing square park.

**Quantity II:** An article sold at Rs. 1813 at the profit of 22.5%. Cost price of article.

- 1) Quantity I > Quantity II      2) Quantity I  $\leq$  Quantity II  
3) Quantity I < Quantity II      4) Quantity I  $\geq$  Quantity II  
5) Quantity I = Quantity II or relation cannot be determined

115. A train crossed a man who is running in opposite direction at the speed of 12 km/hr in 7.2 sec. Speed of train is 108 km/hr.

**Quantity I:** Length of train.

**Quantity II:** Train crosses an another train which running at the speed of 126 km/hr in opposite direction in 8 sec. Length of second train.

- 1) Quantity I > Quantity II      2) Quantity I  $\leq$  Quantity II  
3) Quantity I < Quantity II      4) Quantity I  $\geq$  Quantity II  
5) Quantity I = Quantity II or relation cannot be determined

**Direction (116-120):** Read the following information carefully and answer the questions below:

The data of 50000 people in Vijayawada is collected based on their liking of three different types of food i.e. Indian, Italian and Chinese in restaurants on Sunday. i.e. Indian, Italian or Chinese. 30% of total people like Chinese and 8% of total people who like both Indian and Italian only. People who like both Chinese and Italian only are 500 less than the people who like both Chinese and Indian only.

People who like all three foods together are 1500 less than those who are like both Indian and Chinese only. People who like only Italian are 2500 more than the people who like only Chinese. People who like only Indian are 500 less than those who like only Italian. The total number of people who like Italian are 17500.

**Note:** Remaining people like none of the three food items.

116. Total people who like Indian food are what percent of people who like all three foods together?

- 1) 500%      2) 450%      3) 800%      4) 700%      5) 350%

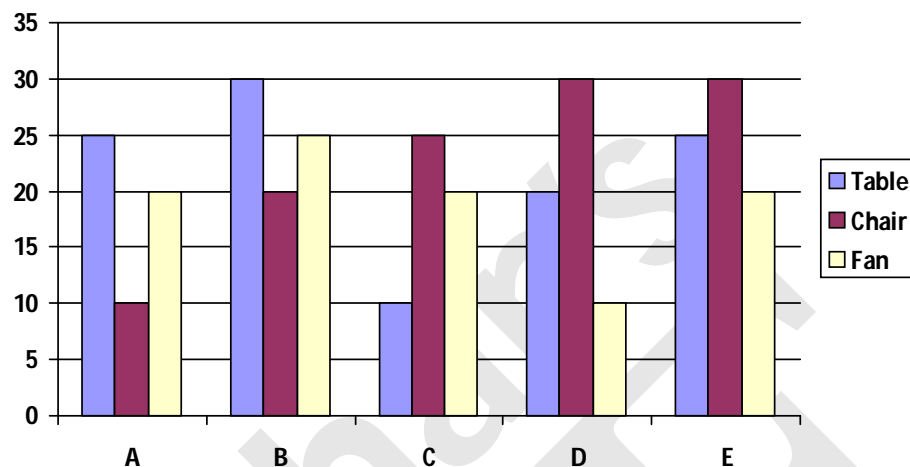
117. What is the total number of people who like only Italian and only Chinese?  
1) 12500      2) 1450      3) 10000      4) 15600      5) 25500
118. Total people who like more than one food is how many more or less than total people who like only one food?  
1) 4500      2) 4000      3) 5500      4) 8000      5) 7500
119. Total people who like both Chinese and Italian only is what percent of total people who like both Chinese and Indian only?  
1) 98.5%      2) 87.5%      3) 69.5%      4) 45%      5) 76.5%
120. Find the ratio of number of people who like only Indian food to that of the number of people who like both Chinese and Italian but not Indian?  
1) 3: 5      2) 5: 3      3) 2: 7      4) 2: 9      5) 2: 1
121. Sumanth invested Rs.p in scheme I which offers simple interest at the rate of 12% per annum and he also invested Rs.(p + 4000) in scheme II which offers compound interest scheme at the rate of 12% per annum. After 3 years he received the amount from scheme II is Rs.5799.424 more than that of scheme I, then find the value of p?  
1) 4000      2) 1000      3) 3000      4) 2000      5) 4500
122. Length of the rectangle is 12 cm more than the breadth of the rectangle. If the length of the rectangle is increased by 8 cm and the breadth of the rectangle is decreased by 4 cm, then the area of the rectangle is unchanged. Find the original area of the rectangle? (in cm<sup>2</sup>)  
1) 144      2) 360      3) 720      4) 640      5) 576
123. When two pens are selected from a pack of x blue pens and 5 red pens, the probability of red color pen is  $\frac{5}{11}$ . What is the probability that when 3 pens are selected at random, all 3 are blue pens? (x should be whole number)  
1)  $\frac{1}{33}$       2)  $\frac{2}{33}$       3)  $\frac{1}{11}$       4)  $\frac{4}{33}$       5)  $\frac{5}{33}$
124. Raju, Mani and Johnny started the business and the investment Raju is Rs.8000 and the investment of Mani and Johnny in the ratio of 4:5. After 12 months Mani added 25% of his initial investment and Johnny added 20% of his initial investment. At the end of two years the profit share of Raju is  $11\frac{1}{9}\%$  more than the profit share of Mani, then the initial investment of Johnny?  
1) 1600      2) 2000      3) 5000      4) 6400      5) 8000
125. Taps A, B and C when opened alternatively for 1 minute each, can fill a tank in 18 minutes. Time taken by A alone is 5 minutes more than time taken by B and C take working together. Find the time taken by C alone to fill the tank, if C is 20% less efficient than B.  
1) 18min      2) 20min      3) 22.5min      4) 25min      5) 30min
126. The present age of B is 7 years less than that of A and the present age of C is 6 years less than that of B. If, after 5 years, the age of C will be  $76\frac{12}{13}\%$  of the age of B, at that time, then what is the ratio between the present ages of A, B and C?  
1) 7: 6: 9      2) 17: 19: 13      3) 28: 21: 15      4) 14: 7: 1      5) 11: 17: 22

127. Mohan has a total of Rs.265 with him. He wants to buy some chocolates for his friends. In a shop, there are three types of chocolates A, B and C those costs per piece are Rs.8, Rs.10 and Rs.15 respectively. Find the ratio between the minimum number of all type chocolates and the maximum number of all type chocolates, which he can buy with his money (at least one chocolate of each type has to be bought)?  
1) 21: 32      2) 11: 13      3) 17: 21      4) 31: 33      5) 19: 23
128. A, B and C entered into a partnership with investment of Rs.4000, Rs.4500 and Rs.7000 respectively. After one year D joined them with an investment of Rs.9000. After one more year B invested Rs.1500 more. After one more year, C withdrew Rs.2500. At the end of four years from the start of business, they earned certain amount of profit. Share of A in the profit is **approximately** what percent of share of D in the profit?  
1) 41%      2) 45%      3) 51%      4) 59%      5) 63%
129. Aravind secured 92.5% of the marks in annual examination in five subjects, each of 120 marks. He secured 95% of the marks in Science and English together, while 90% marks in Social. In Mathematics, if he secured one mark more than Hindi, how many marks did he secure in Hindi?  
1) 98      2) 97      3) 109      4) 110      5) 113
130. A shopkeeper bought an item at Rs.1480 and then marked it at X% above its cost price. After giving a discount of 25%, item is sold at 5% profit. If shopkeeper sells the item at  $\frac{X}{5}$  % profit, then new selling price of item is how much more/less than its actual selling price?  
1) 41.6      2) 44.4      3) 52.1      4) 56.4      5) 57.5
131. The ratio between the downstream speed and upstream speed of a boat is 7: 5. Speed of boat in still water is 5 kmph more than the speed of stream. Find the total time taken by boat to cover 35 km downstream and back again at the same point.  
1) 12 h      2) 14 h      3) 15 h      4) 16 h      5) 18 h
132. Karthi invested Rs. 9000 on compound interest at 10% per annum for three years. Giri invested Rs. 12000 in a bank which promises 10% in the first year, 12% in the second year and 15% in the third year at simple interest. What will be the difference of total interest earned by both of them at the end of the third year?  
1) 1200      2) 1162      3) 1375      4) 1089      5) 1461
133. Aditi and Pooja start at the same time to their school from same place then Aditi reaches 5.5 minutes before Pooja. Pooja takes 29 minutes to go to School from that place and come back. How much time Aditi will take to reach the school from that place when she is travelling at a speed which is 50% more than her previous speed?  
1) 9.5 min      2) 7.5 min      3) 7min      4) 6.5min      5) 6 min
134. The curved surface area of hemisphere 77 cm<sup>2</sup>. If the radius of hemisphere is equal to the height of cylinder & ratio of height and radius of cylinder is 7 : 4 then find the total surface area of cylinder? (in cm<sup>2</sup>)  
1)  $22\pi$       2)  $27\pi$       3)  $36\pi$       4)  $80\pi$       5)  $123\pi$
135. P, Q and R can complete a work in 10 days, 12 days and 15 days respectively. On first day P works, on second day Q works, on third day P works and on fourth day R works. The same cycle repeats. In how many days is the work completed?  
1)  $3\frac{1}{2}$       2) 8      3) 9      4)  $11\frac{1}{4}$       5) 12



**Direction (136-140) :** Study the following information carefully and answer the given questions

The table graph shows the percentage of discount of three different products in 5 different shops.



136. If the marked price of table in A is Rs.1500 and also the shopkeeper earned profit of 25%. If he offered no discount, then what is the percentage of profit earned by shopkeeper?
- 1) 25%      2)  $33\frac{1}{3}\%$       3) 42%      4)  $66\frac{2}{3}\%$       5) 126%
137. If the ratio of the marked price of Fan, Table, Chair in all the shops together is 4: 2: 1. The sum of the selling price of Fan in A and B together is what percent more than that of the sum of the selling price of Table in C and Chair in D?
- 1)  $33\frac{1}{3}\%$       2)  $66\frac{2}{3}\%$       3) 98.5%      4) 108%      5) 148%
138. In C, the sum of the selling price of Table and Chair is Rs.1020. If the sum of the marked price of Table and Chair is Rs.1200, then the marked price of the Chair is what percent of the marked price of Table?
- 1) 10%      2) 5%      3) 45%      4) 50%      5) 30%
139. The selling price of Fan, Table, Chair and Calculator in D is Rs.1400, Rs.600, Rs.500 and Rs.350 respectively. Find the discount amount offered by Calculator in D?
- 1) 50      2) 75      3) 100      4) 120      5) cannot be determined
140. If the ratio of the cost price of Table and Chair in E is 5: 4 and ratio of the marked to cost price of the Table and Chair in E is 3: 2 and 5: 4 respectively. If the shopkeeper earned profit is Rs.12.5, then what is the difference between the marked price of Table and Chair?
- 1) 100      2) 250      3) 150      4) 75      5) 175

### REASONING

**Direction: (141-145)** Study the following information carefully and answer the questions carefully.

Ten persons A, B, C, D, E, V, W, X, Y, and Z are sitting in two parallel rows facing each other. Each one likes different colors of BLUE, ORANGE, GREEN, INDIGO, VIOLET, GRAY, PURPLE, PINK, WHITE and BLACK but not necessarily in the same order. Persons A, B, C, D, E are facing south direction and V, W, X, Y, Z are facing north direction. Neither two persons are sitting each-other according to alphabetical order (e.g. B is not sitting an immediate neighbor of either A or C) nor two persons facing each other according to reverse alphabetical order (e.g. A is not sitting opposite to Z and B is not sitting opposite to Y and so on... M is not sitting opposite to N).

C is sitting opposite to one who is sitting second to the right of one who likes White but neither of them is sitting at ends of the line. X is an immediate neighbor of one who likes Violet and is sitting at ends of the line. One who likes Pink is sitting second to the right of one who likes Indigo but neither of them is sitting opposite to either X or one who likes White. V is sitting opposite to one who is an immediate neighbor of C. D is neither likes indigo nor sitting opposite to X. Person likes Orange is sitting opposite to one who likes Purple, Who is an immediate neighbor of the one who likes Black. Person likes Green is sitting second to the right of one who likes Gray.

- Each person is rolling the Dice according to alphabetical order and got 2, 5, 6, 4, 2, 3, 1, 6, 5, 5 on Dice.

- The person got even number in Dice then he interchanges his position with the one who is sitting opposite to him.

- The person got odd number in Dice then he interchange his position with the one who is sitting immediate left to him.

141. How many persons remain at same place after rolling the Dice?  
1) One                      2) Two                      3) Three                      4) Four                      5) More than four
142. What is the position of E with respect to one who likes Gray in final arrangement?  
1) 2nd to the right                      2) 2nd to the left                      3) 3rd to the left  
4) 3rd to the right                      5) 4th to the left
143. How many persons sitting between Z and one who likes Gray after rolling the dice?  
1) One                      2) Two                      3) Three                      4) No one                      5) Can't be determined
144. What is the position of the one, who is sitting opposite to one who likes Violet (after rolling the Dice), with respect to one who likes Blue (after rolling the Dice)?  
1) Immediate right                      2) Immediate left                      3) Second to the right  
4) Second to the left                      5) Third to the right
145. Four of the following five are alike in a certain way hence form a group which one doesn't belongs to that group in final arrangement?  
1) Y-E                      2) W-C                      3) B-X                      4) D-Z                      5) V-A
146. In making decisions about important questions, it is desirable to be able to distinguish between strong arguments and weak arguments. Strong arguments are those which are both important and directly related to the question. Weak arguments are those which are of minor important and also may not be directly related to the question or may be related to trivial aspect of the question. Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments a strong argument is and which a weak argument is. Give answer.

**Statement:** Should Government close down loss-making public sectors enterprises?

**Arguments:**

**I.** No. All employees will lose their jobs, security and earning, what would they do?

**II.** Yes. In a competitive world the rule is 'survival of the fittest'.

- 1) Only argument I is strong;    2) Only argument II is strong;  
3) Either I or II is strong;        4) Neither I nor II is strong and;  
5) Both I and II are strong.

**Direction: (147-150)** Study the following information carefully and answer the questions given below.

In a certain coding language

**STUDENTS ARGUMENT LEARNS FACT** is coded as **7\$M 11^G 2#X 6&M**

**CATEGORIES DOUBT DIFFERENT LANGUAGE** is coded as **4&T 7\$V 5^M 1#Y**

**YOU HAVE UNLOCKED TECHNOLOGY** is coded as **10!T 4@E 22\*L 13\$V**

147. What is the code for the word "GEOGRAPHY"?  
1) 2!D                      2) 4\$L                      3) 2^S                      4) 12&B                      5) 3\$V
148. Which among the following words have the code of "5&L 4\$L"?  
1) FREEDOM FIGHTER                      2) BOREDOM DIRECTOR                      3) KINGDOM WRITER  
4) STARDOM DRIVER                      5) Both 1 and 3
149. Which among the following is **TRUE** as per the above coding?  
1) STRAIGHT - 11!S                      2) CEREMONY - 5\$M                      3) TEMPER - 16&V  
4) BROWSING - 6!M                      5) MONEY - 9#V

150. What is the code for the word "CATCH WATCH"?
- 1) 3&X 18&X    2) 2&S, 18\$X    3) 2&X 18&X    4) 3\$S 17&S    5) 2&S, 17&S
- Direction: (151-155)** Study the following information carefully and answer the questions given below.
- Ten persons - A, B, C, D, E, F, G, H, I, and J are sitting around the circular table and all are facing the center, but not necessarily in the same order. There are other two chairs are vacant around the table and these are not immediate and not opposite to each other. I is third to the right of J. Two persons are sitting between I and F. The number of chairs between F and J is the same as between J and H. A is not opposite to vacant chair. D is immediate right of B. Neither B nor D is immediate to J and I. Two persons are sitting between D and G, who is not immediate to I. A is immediate to neither D nor H. Neither J nor E is immediate to vacant chair. E is facing either B or D. G does not sit immediate to vacant seat.
151. How many persons are sitting between two vacant chairs?
- 1) Four    2) Two    3) Six    4) Three    5) One
152. Who is fourth to the left of B?
- 1) C    2) F    3) H    4) E    5) Vacant
153. The number of persons sitting between B and I (right of I) is the same as between G and \_\_\_\_\_ (left of G)?
- 1) F    2) C    3) B    4) I    5) Both 2 and 3
154. If all the persons are sitting in alphabetical order starting from A is anti-clockwise direction in occupied chairs then who among the persons group are immediate to vacant chairs (exclude A)?
- 1) C, D, F    2) G, H, J    3) F, G, I    4) B, C, F    5) D, H, I
155. Which among the following is the **ODD ONE**?
- 1) EC    2) IH    3) JE    4) FD    5) DA
- Direction: (156-158)** Study the following information carefully and answer the questions given below.
- A#B** means A is elder than his Sister B.  
**A\$B** means A is the Parent of B.  
**A@B** means A is the Paternal uncle of B.  
**A&B** means A is the Father-in-law of B.  
**A%B** means A is the Daughter-in-law of B.
156. How is 'N' related to 'K' in the given expression "K@B%\$\$P" and "N&P"?
- 1) Uncle    2) Brother-in-law    3) Father-in-law  
 4) Brother    5) Son
157. How is S related to D in the expression "S&M#T" and "D\$L%P\$M"?
- 1) Father    2) Wife    3) Brother    4) Mother    5) Husband
158. How is "Brother of S related to C" in the expression "C\$N#T%P", T\$V, S@V"?
- 1) Son    2) Father    3) Daughter-in-law  
 4) Son-in-law    5) Father-in-law
159. In each question below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.  
 Give answer.
- Statement:** This book Q is the only book which focuses its attention on the problem of poverty in India between 1950 and 1980.
- Conclusions:**
- I.** There was no question of poverty before 1950.  
**II.** No other books deal with poverty in India from 1950 to 1980.
- 1) Only conclusion I follows;    2) Only conclusion II follows;  
 3) Either I or II follows;    4) Neither I nor II follows;  
 5) Both I and II follow.
- Direction: (160-162)** Study the following information carefully and answer the questions given below.
- Seven persons - J, K, L, M, N, P, and Q have different weights, but not necessarily in the same order. No one's weight is below 40kg. More than three persons are heavier than N. Q is heavier than J and is not the heaviest. The difference between the weights of K and J is 15kg. The number of persons are heavier than Q is the same as the number of persons lighter than one who is

63kg. Only two persons have their weight between K's weight and M's weight. K is lighter than N. L is 17kg lighter than P but not to Q. The second-lightest person has 52kg. The weight difference between N and Q is 23kg. The total weight of J and N is equal to the weight of P. One of the person has a perfect square number weight.

160. What is the total weight of M and L?  
 1) 154kg      2) 162kg      3) 175kg      4) 145kg      5) 155kg
161. Which among the following is the **ODD ONE** ?  
 1) N-75kg      2) M-48kg      3) L-63kg      4) Q-115kg      5) J-98kg
162. How many persons are heavier than J?  
 1) Six      2) Three      3) Four      4) Two      5) Five

**Direction: (163-166)** Study the following information carefully and answer the questions given below.

Eight members- A, B, C, D, E, F, G, and H are working in a company with different designations viz. Director, Chief Executive Officer (CEO), General manager (GM), Regional Manager (RM), Supervisor, Office Manager (OM), Team Leader (TL) and Team Member (TM). Director is the senior most and Team member is the junior most position. They all use different mobiles viz. Samsung, Apple, Nokia, Sony, LG, HTC, Honor and Redmi but not necessarily in the same order.

The one who uses Sony is senior to Team leader but not to General Manager. Only one person is junior to G. E uses either Honor or Apple. The number of positions between G and the one who uses Sony is the same as between H and the one who uses Sony. No one's designation is in between H and one who uses Honor. The number of persons senior to one who uses Honor is the same as number of persons junior to one who uses Redmi. A is senior to one who uses Samsung. A is neither Director nor CEO. C uses Nokia and is not the either Team member or General Manager. B is not a Supervisor and is senior to D. The Team Member uses either HTC or LG. The number of persons has designations in between one who uses Samsung and A is the same as between A and E, who is senior to A. At least one person is senior to H. Two people's designations are in between one who uses Nokia and one who uses HTC.

163. What is the designation of F?  
 1) CEO      2) Director      3) Supervisor      4) OM      5) Team Member
164. Who is Regional Manager?  
 1) A      2) E      3) B      4) C      5) One who uses Sony
165. How many persons are Junior to one who uses Nokia?  
 1) Five      2) Four      3) No one      4) Six      5) Seven
166. H uses which mobile?  
 1) Red me      2) HTC      3) Honor      4) Apple      5) Nokia
167. In each of the following questions is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement. Give answer.

**Statement:** The police have served a notice to the residents with immediate effect to be careful of the antisocial elements wandering in their areas.

**Assumptions:**

I. The local residents may pay heed to this notice.

II. The antisocial elements may ply to other areas.

1) Only assumption I is implicit.      2) Only assumption II is implicit.

3) Either assumption I or II is implicit.

4) Neither assumption I nor II implicit.      5) Both assumption I and II implicit

**Direction: (168-171)** Each of the questions below consist of a question and two statements numbered I and II. You have to decide whether the data provided in the statements are sufficient to answer the question.

168. Seven boxes G, H, J, K, L, M, and N are arranged one above another in a stack and each box contains different number of coins viz. 12, 19, 24, 16, 65, 37, 49, but not necessarily in the same order. Which has least number of coins?

**Statement I.** One of the box contains double number of coins to its alphanumeric value and only two boxes are below to it. Three boxes between box K and box N and one of the boxes is at the bottom.

**Statement II.** The number of boxes above box K is the same as below box M. Two boxes are between box M and one which has least coins. Box H is just below one which has 37 coins. Box G has 30 more coins than box H.

1) The data in either statement I alone or statement II alone is sufficient to answer the question.

2) The data in statements I alone is sufficient to answer the question, while the data in statement II is not sufficient to answer the question.

3) The data, even in both statements I and statement II together, are not sufficient to answer the question.

4) The data in both statement I and statement II together is necessary to answer the question.

5) The data in statement II alone is sufficient to answer the question, while the data in statement I is not sufficient to answer the question.

169. Eight members A, B, C, D, E, F, G, and H are sitting around the circular table, but not necessarily in the same order. Who is immediate right of F?

**Statement I:** Two persons are sitting between H and B. One person is sitting between B and D. G is immediate right of C. D and C are not immediate neighbors.

**Statement II:** Two persons are sitting between C and A. D and A are immediate neighbors. The number of persons are sitting between A and H is the same as H and G.

1) The data in statement II alone is sufficient to answer the question, while the data in statement I is not sufficient to answer the question.

2) The data in both statement I and statement II together are necessary to answer the question.

3) The data in statements I alone is sufficient to answer the question, while the data in statement II is not sufficient to answer the question.

4) The data, even in both statements I and statement II together, are not sufficient to answer the question.

5) The data in either statement I alone or statement II alone is sufficient to answer the question.

170. Eight members A, B, C, D, E, F, G, and H buy different articles viz. Book, Cup, Watch, Bag, Lock, Vase, Ring, and Jar, but not necessarily in the same order. Who buys Bag?

**Statement I:** Three persons buy between the one who buys Bag and E. More than three persons buy before E. A buys the Jar. The number of persons buys before A is two more than the number of persons buys after E.

**Statement II:** The number of persons buys before the one who buys Bag is equal to the alphanumeric value of that person name. A and B don't buy immediately. E buys either Ring or Lock.

1) The data in either statement I alone or statement II alone is sufficient to answer the question.

2) The data in statement II alone is sufficient to answer the question, while the data in statement I is not sufficient to answer the question.

3) The data, even in both statements I and statement II together, are not sufficient to answer the question.

4) The data in both statement I and statement II together is necessary to answer the question.

5) The data in statements I alone is sufficient to answer the question, while the data in statement II is not sufficient to answer the question.

171. Six members P, Q, R, S, T, and U are sitting in a straight line facing North and each one likes different Ornaments viz. Ring, Bangle, Bracelet, Chain, Choker, and Anklet, but not necessarily in the same order. How many persons sitting between Q and one who likes Bangle?

**Statement I.** Q is second to the right of the one who likes Chain. Two persons are sitting between the one who likes Chain and the one who likes Ring. S is immediate right of the one who likes Bangle and both are to the left of the one who likes Chain.

**Statement II.** The one who likes Choker is second to the left of T. One person is sitting between the one who likes Choker and S. P and R are immediate to S. Two persons are sitting between U and the one who likes Bangle.

1) The data in both the statements I and II together is necessary to answer the question.

2) The data in either statement I alone or statement II alone is sufficient to answer the question.

3) The data in statement II alone is sufficient to answer the question, while the data in statement I is not sufficient to answer the question.

4) The data, even in both statements I and statement II together, are not sufficient to answer the question.

5) The data in statements I alone is sufficient to answer the question, while the data in statement II is not sufficient to answer the question.

**Direction: (172-175)** Study the following information carefully and answer the questions given below.

A certain number of persons are sitting in a straight line facing the North. The information about some of them is given. Prime number of persons, which is more than ten and less than Sixteen are sitting in between T and the one who is immediate left of F. The number of persons are sitting between T and M is double to the number of persons are sitting between M and the one who is immediate left of F. The number of persons are sitting between M and F is the same as between B and G. G is to the left of T and one person is sitting between T and B. The number of persons are sitting between T and G is the same as between B and L, who is to the right of B. K is fourth to the right of L. Three persons are sitting between K and N. The number of persons are sitting to the right of N is the same as to the left of G. J is third to the left of G. Two persons are sitting between F and D. D is to the right of M and is at one of ends. The number of persons sitting between J and T is one less than the number of persons are sitting between K and D. C and K are immediate neighbors.

172. The number of persons are sitting between T and C is one more than the number of persons sitting between \_\_\_\_ and \_\_\_\_?

- 1) D, M      2) G, L      3) L, F      4) J, B      5) M, F

173. If all the persons are arranged in alphabetical order in the given occupied places then how many persons are in between N and F?

- 1) 11      2) 13      3) 15      4) 12      5) 14

174. Which among the following is the **ODD ONE** ?

- 1) GT      2) BL      3) CF      4) LK      5) JB

175. How many persons are sitting in the straight line?

- 1) 22      2) 30      3) 31      4) 29      5) 27

**Direction: (176-179)** Study the following information carefully and answer the questions given below.

**H 9 @ 4 P 1 \* R % C 7 \$ G 2 Q & D ^ K J # 3 S 5 ? Z + E V 6**

**Step 1:** Symbols which are immediately preceded by a number, then interchange their positions with that numbers.

**Step 2:** After the completion of step 1, Alphabets which are immediately preceded by a number and followed by a symbol, then delete such type of alphabets from the above step 1.

**Step 3:** After the completion of step 2, Numbers which are immediately followed by a symbol are arranged in ascending order in between E and V step 2.

176. In which step '&' is Sixth to the left of '3'?

- 1) Step 1      2) Step 3      3) Step 2      4) Both 1 and 2      5) No such step

177. How many digits are there which is immediately preceded by an alphabet in the step 3?

- 1) Two      2) Three      3) Five      4) Four      5) None

178. If we remove all digits from the step 2, then which of the following element is 5<sup>th</sup> to the left of 9<sup>th</sup> from the right end?

- 1) G      2) @      3) \*      4) %      5) V

179. Which of the following element is exactly placed between '\*' and '?' in step 1?  
 1) &                      2) Q                      3) 2                      4) G                      5) 7

**Direction: (180-183)** Study the following information carefully and answer the questions given below.

**Input: SERIOUS 3592 JOURNEY 2957 CASUAL 6138 GRAVITY 8723**

**Step 1:** CASUAL 45 SERIOUS 3592 JOURNEY 2957 GRAVITY 8723

**Step 2:** JOURNEY 39 CASUAL 45 SERIOUS 2957 GRAVITY 8723

**Step 3:** GRAVITY 10 JOURNEY 39 CASUAL 45 SERIOUS 2957

**Step 4:** SERIOUS 31 GRAVITY 10 JOURNEY 39 CASUAL 45

Step 4 is the final step for the given INPUT and as per the above rules step by step solve the given below INPUT.

**INPUT: DIMENSION 4236 WATER 4827 BRIGHT 7359 NATURAL 6728**

180. Which among the following is the fifth from the left end in step 1?  
 1) WATER                      2) 7359                      3) 4827                      4) DIMENSION                      5) 18
181. The word/ number which is first from the left in final step is at which place in step 3?  
 1) Second from left                      2) Third from right                      3) Fourth from right  
 4) Second from right                      5) Third from left
182. Which among the following is the **ODD ONE** based on the final step?  
 1) DIMENSION – NATURAL                      2) BRIGHT – 18                      3) WATER – 18  
 4) 12 – 48                      5) NATURAL – 12
183. What is the total of the numbers which are second from left in final step and second from right in step 2?  
 1) 6776                      2) 7397                      3) 7407                      4) 6740                      5) 7393

184. In each question below is given a statement, followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy etc. On the basis of the information given in the statement, you have to assume everything in the statement to be true and then decide which of the suggested courses of action logically follows for pursuing. Give answer.

**Statement:** The meteorological department has issued a notification forecasting excessive rainfall during next year's monsoon.

**Course of Action:**

**I.** The farmers should be advised to be ready for the eventuality.

**II.** The government should make arrangements to stop waterlogging in the affected areas.

1. Only Course of action I follows.
2. Only Course of action II follows.
3. Either Course of action I or Course of action II follows.
4. Neither Course of action I nor Course of action II follows.
5. Both Course of action I and II follow.

**Direction: (185-189)** Study the following information carefully and answer the questions given below.

Eight members - A, B, C, D, E, F, G, and H are living in a building which has eight floors. The ground floor is numbered 1, just above to it is numbered 2 till the top floor is numbered 8. They all plans family trips in eight different months viz. March, April, May, June, July, August, September, and October, on eight different dates, but not necessarily in the same order.

E lives on even-numbered floor, but not on top floor. Only two persons live below to the person, who goes before the maximum number of persons. The one who lives on topmost floor is goes on the date, which is half of the number of days in that month. H lives in odd-numbered floor, but not immediate to E. The number of floors above H is the same as number of floors below the one who goes on 22<sup>nd</sup> of the month. H goes on the date which is a perfect square of his floor number. The one who goes in April is lives immediate below the one who goes on 10<sup>th</sup> of the month. Two persons live between B and the one who goes in July. C goes on the

last day of the month, but not in the month May. More than two floors are between the H and the one who goes in May. The number of floors between E and the one who goes in May is the same as between E and C. A goes on even numbered date and lives immediate above to the one who goes at last. The number of floors between A and C is the same as between H and the one who goes in August. B goes on even-prime numbered date, but not in April. G lives below F but not to D and F goes before G. The date of one who goes in August month is, equal to the dates difference between the C and B. G lives above the one who goes on 18<sup>th</sup>.

185. The one who lives in 4<sup>th</sup> floor is goes in which month?  
 1) March      2) April      3) June      4) July      5) September
186. Who goes on 18<sup>th</sup> date?  
 1) H      2) The one who goes in July  
 3) The one who goes in March      4) A      5) B
187. The one who goes in March is goes on which date?  
 1) 31<sup>st</sup>      2) 9<sup>th</sup>      3) 2<sup>nd</sup>      4) 29<sup>th</sup>      5) 30<sup>th</sup>
188. The one who goes on 10<sup>th</sup> is lives on which of the following floor?  
 1) Second      2) Fifth      3) Fourth      4) Seventh      5) Eighth
189. Which among the following is the **ODD ONE** ?  
 1) B- August      2) C-22<sup>nd</sup>      3) G- October      4) F-10<sup>th</sup>      5) E- March
190. In each of the following questions, the two statements numbered I and II are given. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between the two statements. Mark your answer as.
- Statement I.** A large number of people living in the low-lying areas have been evacuated during the last few days to safer places.
- Statement II.** The government has rushed in relief supplies to the people living in low-lying areas.
- 1) Statement I is the cause and statements II is its effect.  
 2) Statement II is the cause and statements I is its effect.  
 3) Both the statements I and II are independent causes.  
 4) Both the statements I and II are effects of independent causes.  
 5) Both the statements I and II are effects of same common causes.

### KEY

1.4	2.2	3.4	4.5	5.1	6.4	7.5	8.3	9.4	10.1	11.2	12.3	13.5
14.2	15.3	16.4	17.2	18.1	19.5	20.4	21.1	22.5	23.4	24.2	25.3	26.5
27.2	28.3	29.1	30.3	31.2	32.3	33.1	34.5	35.2	36.4	37.5	38.2	39.5
40.3	41.2	42.1	43.5	44.1	45.4	46.5	47.3	48.2	49.1	50.4	51.3	52.4
53.1	54.3	55.5	56.1	57.5	58.3	59.2	60.4	61.1	62.2	63.3	64.4	65.2
66.4	67.2	68.4	69.2	70.2	71.4	72.1	73.4	74.5	75.5	76.2	77.2	78.1
79.4	80.4	81.3	82.2	83.1	84.5	85.3	86.4	87.3	88.2	89.3	90.4	91.3
92.4	93.1	94.4	95.4	96.2	97.1	98.5	99.4	100.4	101.3	102.4	103.1	104.2
105.1	106.4	107.3	108.4	109.4	110.3	111.1	112.1	113.5	114.3	115.3	116.4	117.1
118.3	119.2	120.5	121.1	122.4	123.4	124.5	125.3	126.3	127.1	128.4	129.3	130.2
131.1	132.5	133.5	134.1	135.4	136.4	137.5	138.4	139.5	140.2	141.2	142.2	143.1
144.3	145.5	146.2	147.3	148.2	149.2	150.3	151.4	152.1	153.3	154.2	155.5	156.4
157.5	158.4	159.4	160.2	161.4	162.3	163.3	164.1	165.5	166.4	167.1	168.4	169.4
170.4	171.5	172.2	173.4	174.5	175.5	176.4	177.1	178.4	179.2	180.3	181.4	182.5
183.3	184.5	185.4	186.4	187.1	188.4	189.3	190.4					