



RBI Grade- B Officer Phase 1 Solved Paper - 2019

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RBI GRADE - B OFFICER PHASE 1 SOLVED PAPER - 2019

(Based on Memory)

PART A : GENERAL AWARENESS

- Where is the headquarters of Credit Saison India, which has received a non-banking financial company (NBFC) licence from the Reserve Bank of India?
 - Kolkata
 - Hyderabad
 - Jaipur
 - Bengaluru
 - Patna
- Lalji Tandon is an Indian politician serving as the 22nd and current Governor of-?
 - Kerala
 - Madhya Pradesh
 - Jharkhand
 - Rajasthan
 - Odisha
- Where is the headquarter of Lakshmi Vilas Bank?
 - Kolkata
 - Mumbai
 - New Delhi
 - Bengaluru
 - Chennai
- Which country has opened the largest solar farm in Southeast Asia?
 - Indonesia
 - Thailand
 - Singapore
 - Vietnam
 - Malaysia
- The International Atomic Energy Agency (IAEA) is an international organization that seeks to promote the peaceful use of nuclear energy, and to inhibit its use for any military purpose, including nuclear weapons. Where is the headquarters of IAEA?
 - Paris, France
 - Abu Dhabi, UAE
 - Vienna, Austria
 - Riyadh, Saudi Arabia
 - New York, USA
- The Reserve Bank of India (RBI) announced a minimum equity capital of _____ crore to set up a small finance bank (SFB) under the 'on tap' licence regime to expand the banking services through high technology-low cost operations.
 - Rs 250 crores
 - Rs 200 crores
 - Rs 150 crores
 - Rs 100 crores
 - Rs 75 crores
- UN-Habitat is the United Nations programme working towards a better urban future. Where is the headquarter of UN-Habitat?
 - Geneva, Switzerland
 - New Delhi, Bangladesh
 - Nairobi, Kenya
 - Paris, France
 - New York, USA
- The Nobel Prize in Chemistry 2019 rewards the development of the-?
 - Lithium-Ion Battery Creators
 - Directed evolution of enzymes
 - Phage display of peptides and antibodies
 - Design and synthesis of molecular machines
 - Mechanistic studies of DNA repair
- Who beats John Millman to win the Japan Open 2019?
 - Roger Federer
 - Rafael Nadal
 - Novak Djokovic (Serbia)
 - Stefanos Tsitsipas
 - Alexander Zverev
- Peter Higgs and Francois Englert was shared the 2013 Nobel Prize in which category?
 - Chemistry
 - Economics
 - Peace
 - Physics
 - Medicine
- Pakyong Airport is a green field RCS airport in which city?
 - Gangtok, Sikkim
 - Jodhpur, Rajasthan
 - Hisar, Haryana
 - Patna, Bihar
 - Ranchi, Jharkhand
- India-Maldives joint military exercise 'Ex EKUVERIN - 2019' culminated with an impressive closing ceremony held in-
 - New Delhi
 - Pune
 - Kolkata
 - Vishakhapatnam
 - Dehradun
- Indian batsman Rohit Sharma is launching the Rohit4Rhinos campaign, in partnership with WWF India and _____, to help build awareness for the need to conserve the Greater One-Horned Rhinoceros or the Indian Rhino.
 - Colors
 - Zee TV
 - ABVP news
 - Discovery India
 - Animal Planet
- In which city, Defence minister Rajnath Singh has attended the meeting of the Council of Heads of Government (CHG) of Shanghai Cooperation Organisation (SCO)?
 - Tokyo, Japan
 - Seoul, South Korea
 - Nur-Sultan, Kazakhstan
 - Tashkent, Uzbekistan
 - Kabul, Afghanistan

15. In which city, G20 2020 summit will be held?
 (a) New Delhi, India (b) Abu Dhabi, UAE
 (c) London, UK (d) Karachi, Pakistan
 (e) Riyadh, Saudi Arabia
16. Which company has signed up world badminton champion Puserla Venkata Sindhu (PV Sindhu) as its brand ambassador for two years?
 (a) Master Card
 (b) American Express
 (c) Visa
 (d) Credicard
 (e) Capital One
17. Rudrasagar Lake, also known as Rudijala, is a lake located in-?
 (a) Nagaland (b) Assam
 (c) Meghalaya (d) Tripura
 (e) Sikkim
18. Who is the first Lieutenant Governor of the union territory of Ladakh?
 (a) Biswa Bhusan Harichandan
 (b) Jagdish Mukhi
 (c) Radha Krishna Mathur
 (d) Phagu Chauhan
 (e) Anusuiya Uikey
19. Which organisation has announced relaxation in norms for 'Muni Bonds' to help smart cities and other registered entities working in areas of city planning and urban development work like municipalities to raise funds through issuance and listing of their debt securities?
 (a) RBI (b) SEBI
 (c) IRDAI (d) NABARD
 (e) NHB
20. Which organisation has constituted a working group on Social Stock Exchanges (SSE) under the chairmanship of Ishaat Hussain, Director, SBI Foundation?
 (a) RBI (b) SEBI
 (c) IRDAI (d) NABARD
 (e) NHB
21. Piyush Goyal is the Minister of Railways and Minister of Commerce & Industry in the Government of India. Where is the Constituency of Piyush Goyal?
 (a) Andhra Pradesh (b) Maharashtra
 (c) Telangana (d) Kerala
 (e) Punjab
22. In which state, the Ratapani Tiger Reserve has been located?
 (a) Uttar Pradesh (b) Himachal Pradesh
 (c) Haryana (d) West Bengal
 (e) Madhya Pradesh
23. Who has won the Professional Cricketers' Association awards recently?
 (a) Ben Stokes (b) Aaron Finch
 (c) Kane Williamson (d) Virat Kohli
 (e) Suresh Raina
24. The _____ Integrity Unit has banned Indian sprinter Sheoran Nirmla for four-year. **3**
 (a) World (b) National
 (c) Sports (d) Sprinting
 (e) Athletics
25. India's first e-waste clinic to be set up in-?
 (a) Patna (b) Bhopal
 (c) Jodhpur (d) Agartala
 (e) Shillong
26. The Reserve Bank of India has given the final approval for the merger of district co-operative banks in-?
 (a) Kerala (b) Tamil Nadu
 (c) Rajasthan (d) Odisha
 (e) Bihar
27. The Railway ministry, Department of Science & Technology and _____ have forged an association on a project on 'Industry 4.0', which includes a host of digital technologies like artificial intelligence, Big Data, machine learning and cloud computing.
 (a) IIT BHU (b) IIT Goa
 (c) IIT Delhi (d) IIT Kanpur
 (e) IIT Mandi
28. Lessons Life Taught Me, Unknowingly - An Autobiography by-?
 (a) Salman Rushdie (b) Anupam Kher
 (c) Shahid Afridi (d) Amir Khan
 (e) A R Rehman
29. What is the official mascot of the 2022 Winter Olympics held in China?
 (a) Wenlock and Mandeville
 (b) Cobi and Petra
 (c) Vinicius and Tom
 (d) Bing Dwen Dwen
 (e) Hodori
30. _____ delivers first AH-64 Apache combat helicopter.
 (a) HAL
 (b) DRDO
 (c) Tata Boeing Aerospace
 (d) Rafael Advanced Defense Systems
 (e) Dassault Aviation
31. In which city the World Hindu Economic Forum 2019 was held?
 (a) New Delhi (b) Chennai
 (c) London (d) Dubai
 (e) Mumbai
32. The World Economic Forum Annual Meeting 2020 will be held in?
 (a) Dubai, UAE (b) Abu Dhabi, UAE
 (c) Riyadh, Saudi Arabia (d) Davos, Switzerland
 (e) Beijing, China

33. What is theme for the World Teachers' Day 2019?
 (a) Right to education
 (b) Empowering Teacher's
 (c) Young Teachers: The Future of the Profession
 (d) Valuing Teachers, Improving their Status
 (e) Invest in the future, invest in teachers
34. The integrated exercise named 'Chang Thang' was conducted in-?
 (a) Dehradun (b) Vishakhapatnam
 (c) Kolkata (d) Ladakh
 (e) Barmer
35. Trying to meet the disinvestment target set by the government, the _____ and Niti Aayog are looking at the scope of putting various public sector enterprises (PSUs) on the block.
 (a) Ministry of Commerce and Industry
 (b) Ministry of Communications and Information Technology
 (c) Department of Disinvestment and Public Asset Management (DIPAM)
 (d) Ministry of Chemicals and Fertilizers
 (e) Ministry of Consumer Affairs, Food and Public Distribution
36. What is the theme for the International Day of the Girl Child 2019?
 (a) A Skilled Girlforce
 (b) EMPOWER girls
 (c) Girls' Progress = Goals' Progress
 (d) GirlForce: Unscripted and Unstoppable
 (e) Ending child marriage
37. Reliance Insurance is one of the best life insurance companies in India catering to customers with wide range of life insurance policies. Now Reliance Insurance known as-?
 (a) Reliance HDFC Life Insurance
 (b) Reliance Standard Chartered Life Insurance
 (c) Reliance Fino Life Insurance
 (d) Reliance Nippon Life Insurance
 (e) Reliance Alibaba Life Insurance
38. Who among the following was not awarded with the "Courage in Journalism Award 2019" by the International Women's Media Foundation (IWMF) for women journalists?
 (a) Anna Babinets (b) Nastya Stanko
 (c) Anna Nimiriano (d) Barkha Dutt
 (e) Lucia Pineda
39. Where is the headquarter of Laxmi Vilas Bank?
 (a) Kolkata (b) Bengaluru
 (c) New Delhi (d) Chennai
 (e) Mumbai
40. NTPC to build India's biggest solar park in which state?
 (a) Karnataka (b) Gujarat
 (c) Maharashtra (d) Punjab
 (e) Rajasthan
41. The climate activist Greta Thunberg belongs to which country?
 (a) Sweden (b) Finland
 (c) Iceland (d) Norway
 (e) Denmark
42. What is the capital of Finland?
 (a) Copenhagen (b) Oslo
 (c) Ottawa (d) Helsinki
 (e) Kabul
43. Name the Nephrologist and the Padma Shri Awardee who passed away recently.
 (a) Deep Joshi (b) Dr HL trivedi
 (c) D. R. Karthikeyan (d) Kodaganur S. Gopinath
 (e) Surendra Dubey
44. Name the country which leads the list of countries with maximum migrants around the world, accounting for about 18 million persons living abroad.
 (a) China (b) India
 (c) Bangladesh (d) Syria
 (e) Afghanistan
45. The Ministry of Health and Family Welfare recently conducted the first-ever comprehensive National Nutrition Survey with the help of which organization?
 (a) UNICEF (b) World Bank
 (c) IMF (d) UNESCO
 (e) WHO
46. Name the campaign launched by Life Insurance Council to raise awareness about the importance of life insurance.
 (a) Yogakshemam Vahamyaham
 (b) You click, we cover
 (c) Zimmedari ka humsafar
 (d) Sabse Pahle Life insurance
 (e) Sar utha Ke Jiyo
47. The movie "Gully Boy" has been nominated for the Oscar. The movie is directed by?
 (a) Raj Kumar Hirani (b) Sanjay Leela Bhansali
 (c) Prakash Goyal (d) Zoya Akhtar
 (e) S.S. Rajamouli
48. The Vikram Sarabhai Library bagged the UNESCO Asia Pacific Award for Cultural Heritage Conversation 2019. The library is located in?
 (a) IIM Lucknow (b) IIM Bangalore
 (c) IIM Calcutta (d) IIM Rohtak
 (e) IIM Ahmedabad
49. The 5th edition of the World Parliament of science, religion and philosophy was organized by MIT World Peace University in?
 (a) Ranchi (b) Srinagar
 (c) Pune (d) Mumbai
 (e) Panaji

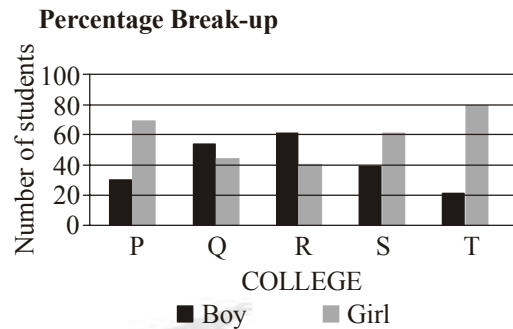
50. Three railway stations of which state has bagged top honours in the railways' cleanliness survey unveiled by Railway Minister Piyush Goyal?
- (a) Andhra Pradesh (b) Tripura
(c) Nagaland (d) Rajasthan
(e) Madhya Pradesh
51. India will offer \$ 236 mn as additional credit to which country for setting up a 1.5 million tonne per annum oil refinery?
- (a) Nepal (b) Mongolia
(c) Bhutan (d) Bangladesh
(e) Afghanistan
52. India is set to increase its public health spending to 2.5 per cent of its gross domestic product (GDP) by which year?
- (a) 2025 (b) 2024
(c) 2023 (d) 2022
(e) 2021
53. Who is the author of the book titled "150 Years of Celebrating the Mahatma the South African Legacy" which was recently launched in Johannesburg, South Africa?
- (a) Paaro Anand (b) Salman Rushdie
(c) Fakir Hassen (d) Avinash Sanghvi
(e) Shashi Tharoor
54. Article 15 of the Indian Constitution is related to?
- (a) Right to Property
(b) Right to choose your partner
(c) Prohibition of discrimination on grounds of religion, race, caste, sex or birth
(d) Right to education
(e) Right to vote
55. Sarah Taylor is a women cricketer. She plays for which country?
- (a) Australia (b) New Zealand
(c) South Africa (d) England
(e) Ireland
56. Name the organization which has decided to translate and publish an anthology of the writings of Guru Nanak Dev in world languages to mark his 550th birth anniversary.
- (a) UNICEF (b) The UN
(c) UNESCO (d) NATO
(e) European Union
57. Indian Army's biggest mountain combat exercise 'Him Vijay' was conducted in which state?
- (a) Maharashtra (b) Gujarat
(c) Rajasthan (d) West Bengal
(e) Arunachal Pradesh
58. Name the bank which has deployed 'Robotic Arms' for currency sorting at its chests.
- (a) HDFC Bank (b) Axis Bank
(c) Yes Bank (d) ICICI Bank
(e) Kotak Mahindra Bank
59. Name the bank which has announced the launch of a digital fixed-deposit product called 'Express FD'.
- (a) HDFC Bank (b) Axis Bank
(c) Yes Bank (d) ICICI Bank
(e) Kotak Mahindra Bank
60. The world's population is expected to increase by _____ persons in the next 30 years as per the World Population Prospects 2019.
- (a) 3.0 Billion (b) 2.9 Billion
(c) 2.5 Billion (d) 2.0 Billion
(e) 1.90 Billion
61. The army of which country is also known as the People's Liberation Army?
- (a) China (b) Japan
(c) USA (d) Russia
(e) North Korea
62. Name the 2 states which were the joint winners in the Adventure Tourism category at the National Tourism Awards 2017-18.
- (a) Telangana and Madhya Pradesh
(b) Goa and Rajasthan
(c) Goa and Tripura
(d) Goa and Madhya Pradesh
(e) Maharashtra and Madhya Pradesh
63. With which organization NITI Aayog's Atal Tinkering Labs (ATL) has launched 'The Gandhian Challenge' on the 150th birth Anniversary of Mahatma Gandhi?
- (a) Google (b) UNICEF
(c) Apple (d) UNESCO
(e) Microsoft
64. United Bank of India will be merged with which bank?
- (a) State Bank of India (b) Bank Of Baroda
(c) Syndicate Bank (d) Canara Bank
(e) Punjab National Bank
65. LIC has decided to infuse ₹ 4700 crore in which bank?
- (a) Indian Bank (b) Bank Of India
(c) Allahabad Bank (d) IDBI Bank
(e) Oriental Bank of Commerce
66. Name the project recently initiated by ISRO to safeguard Indian space assets from debris and other harm.
- (a) Project NETRA (b) Project DRISHTI
(c) Project ROSHNI (d) Project SPACE
(e) Project ANTRIKSHA
67. IAAF World Athletics Championships was recently held at which place?
- (a) Ulan Ude, Russia (b) Doha, Qatar
(c) Riyadh, UAE (d) Seoul, South Korea
(e) Beijing, China
68. Who is the president of Zambia?
- (a) Adama Barrow (b) Sauli Niinisto
(c) Asbjorn Solberg (d) Edgar Chagwa Lungu
(e) Cyril Ramaphosa
69. Finance Minister Nirmala Sitharaman has inaugurated the National e-Assessment Centre (NeAC) in?
- (a) Chennai (b) New Delhi
(c) Kolkata (d) Mumbai
(e) Agartala

70. The WTO hosted the first World Cotton Day (WCD) Conference at?
 (a) Basel (b) Zurich
 (c) Geneva (d) Bern
 (e) Lucerne
71. Salwa Eid Nasser has won the gold medal in the 400m women's race for 2019 IAAF World Athletics Championships. She is from which country?
 (a) Kenya (b) Kuwait
 (c) Peru (d) Indonesia
 (e) Bahrain
72. Kaleshwaram Lift Irrigation project was recently inaugurated in which state?
 (a) West Bengal (b) Telangana
 (c) Rajasthan (d) Uttar Pradesh
 (e) Assam
73. 14th Session of the Conference of the Parties to the UN Convention to Combat Desertification (COP 14) was held in which country?
 (a) Russia (b) Japan
 (c) Sri Lanka (d) India
 (e) China
74. Which Indian state has recently launched the Emissions trading scheme?
 (a) Rajasthan (b) Andhra Pradesh
 (c) Gujarat (d) Odisha
 (e) Telangana
75. Name the Italian journalist who will receive the 2019 Peter Mackler Award for Courageous and Ethical Journalism.
 (a) Christiane Amanpour (b) Bob Woodward
 (c) Carl Bernstein (d) Paolo Borrometi
 (e) Barbara Walters
76. Which Indian state has inked a 'sister state agreement' MoU with "New Jersey" for cooperation in economic development, clean energy, higher education, tourism, cultural exchange as well as health and trade-investment.
 (a) Gujarat (b) Karnataka
 (c) Kerala (d) Tamil Nadu
 (e) Bihar
77. '_____ Youth Parliament', a mock Assembly session will be held to mark the silver jubilee of the House and the 150th birth anniversary of Mahatma Gandhi.
 (a) Mumbai (b) Kolkata
 (c) Pune (d) Chennai
 (e) Delhi
78. Who is the author of the book "The Third Pillar"?
 (a) Raghuram Rajan (b) Kiran Bedi
 (c) K Natwar Singh (d) Dr. Shashi Tharoor
 (e) None of these
79. Indian Government has recently approved the infusion of 9300 crore in which Bank?
 (a) SBI Bank (b) IDBI Bank
 (c) RBI Bank (d) SIDBI bank
 (e) None of these

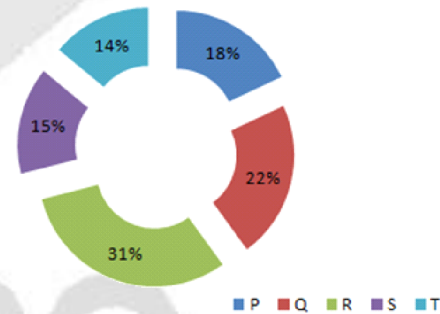
80. Who is the First Lt. Governor of Ladakh?
 (a) G. C. Murmu
 (b) Anil Bajjal
 (c) Devendra Kumar Joshi
 (d) Radha Krishnan Mathur
 (e) None of these

PART B : QUANTITATIVE APTITUDE

DIRECTIONS (Qs. 81-85): Study the following graph and pie chart carefully to answer the questions given below:



Percentage Breakup of Students : Total - (70000)



81. Total number of students in College R is approximately what per cent of total number of students in College S?
 (a) 247% (b) 249%
 (c) 212% (d) 207%
 (e) None of these
82. What is the total number of boys in all the Colleges together?
 (a) 33350 (b) 34700
 (c) 31430 (d) 36280
 (e) 32860
83. What is the ratio of total number of boys in Colleges P and R together to the total number of girls in Colleges Q and S together?
 (a) 125:127 (b) 1680:1323
 (c) 1 802: 1325 (d) 1424:1525
 (e) None of these
84. What is the difference between the number of boys in College Q and the number of boys in College T?
 (a) 6510 (b) 6350
 (c) 6170 (d) 6300
 (e) None of these

Total number of boys in College P, S and T is what approximately percentage of total number of boys in Q and R together?

- (a) 75% (b) 47.25%
(c) 50% (d) 45.5%
(e) 46.25%

DIRECTIONS (Qs. 86-88): In each of these questions, two equations are given. You have to solve these equations and find out the values of x and y and :

Give answer :

- (a) if $x < y$ (b) if $x > y$
(c) if $x \leq y$ (d) if $x \geq y$
(e) if $x = y$ or no relation

86. I. $8x^2 + 26x = -15$ II. $12y^2 - 28y + 8 = 0$
87. I. $14x^2 + 33x = 20$ II. $22y^2 - 21y = -5$
88. I. $7x^2 + 18x = 9$ II. $23y^2 = 49y - 6$

DIRECTIONS (Qs. 89-91): Compare the value of 2 quantities given in the question and give answer :

89. **Quantity 1:** Circumference of the circle. The diameter of a circle is equal to the perimeter of a square whose area is 4356 cm^2 .

Quantity 2: No. of different ways in which the letters of the word 'ENTRI' can be arranged.

- (a) if quantity 1 > quantity 2
(b) if quantity 1 < quantity 2
(c) if quantity 1 \geq quantity 2
(d) if quantity 1 \leq quantity 2
(e) if quantity 1 = quantity 2 or no relation can be established

90. **Quantity 1:** No. of revolutions per minute made by wheel in order to keep a speed of 66 kmph. The diameter of the driving wheel of a bus is 560 cm.

Quantity 2: A cord is in the form of a square enclosing an area of 441 cm^2 . Area of the circle made by bending the same cord.

- (a) if quantity 1 > quantity 2
(b) if quantity 1 < quantity 2
(c) if quantity 1 \geq quantity 2
(d) if quantity 1 \leq quantity 2
(e) if quantity 1 = quantity 2 or no relation can be established

91. **Quantity 1:** Sum invested by man in scheme Q. A person has a total sum Rs. 33300. He invests some part of this amount in scheme P at a rate of 10% for two years and rest part in scheme Q at a rate of 20% for two years. The simple interest earned from both the schemes are equal.

Quantity 2: Actual price of mobile. Dhiraj purchased a mobile in Rs. 25725. Later he felt that he had given 5% extra of the actual price of mobile.

- (a) if quantity 1 > quantity 2
(b) if quantity 1 < quantity 2
(c) if quantity 1 \geq quantity 2
(d) if quantity 1 \leq quantity 2
(e) if quantity 1 = quantity 2 or no relation can be established

92. On selling a book at 5% loss and a box at 15% gain, Kamal gains Rs. 49. If he sells the book at 5% gain and the box at 10% gain, then he gains Rs. 91. The actual price of the box is

- (a) Rs. 600 (b) Rs. 560
(c) Rs. 610 (d) Rs. 5900
(e) Rs. 680

93. Aman invested X Rs. at the rate of 15% per annum on compound interest for two years and gets total interest of Rs. 11610. If Ankur invest $(X + 14000)$ Rs. for another two years at additional rate of 5%, then what will be compound interest on that investment?

- (a) 20000 (b) 22000
(c) 19000 (d) 25000
(e) 28000

DIRECTIONS (Qs. 94-98): In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number?

94. 15, 358, 574, 699, 756, 790

- (a) 358 (b) 699
(c) 756 (d) 790
(e) 15

95. 3.5, 15, 24, 32, 37.5, 41, 42.5

- (a) 15 (b) 24
(c) 32 (d) 37.5
(e) 41

96. 18, 10, 11.5, 19, 41, 105.5

- (a) 10 (b) 11.5
(c) 19 (d) 105.5
(e) 41

97. 17, 23, 35, 59, 107, 204

- (a) 23 (b) 35
(c) 59 (d) 204
(e) 107

98. 3601, 3602, 1803, 604, 156, 36, 12

- (a) 3602 (b) 1803
(c) 604 (d) 156
(e) 36

DIRECTIONS (Qs. 99-103): Study the information carefully to answer the questions that follow:

In a college consisting of 2800 students, the ratio of girls to boys is 4 : 3 respectively. All the students have taken different subjects classes viz. Science, Hindi, English, History. 20 percent of the boys take English classes. The number of girls taking Hindi classes is five-fourth of the number of boys taking the same. One-fourth of the girls take History classes. The total number of students taking History classes 700. Two-fifth of the boys take Science classes and the remaining boys take Hindi classes. The girls taking Science classes is half the number of boys taking the same. The remaining girls take English classes.

99. What is the respective ratio of boys taking English classes to the boys taking Science classes?

- (a) 4 : 3 (b) 2 : 1
(c) 6 : 5 (d) 3 : 4
(e) None of these

100. The number of girls taking History classes is what percent of the total number of students in the college?
- (a) 14% (b) 20%
(c) 14.28% (d) 26%
(e) None of these
101. The number of boys taking English classes is what percent of the total number of girls taking science classes in the college?
- (a) 305 (b) 20%
(c) 25% (d) 28%
(e) None of these
102. What is the total number of students taking Hindi classes?
- (a) 325 (b) 445
(c) 390 (d) 405
(e) None of these
103. What is the number of girls taking English classes?
- (a) 116 (b) 15
(c) 125 (d) 280
(e) None of these
104. Two casks of 48 L and 42 L are filled with mixtures of wine and water, the proportions in the two casks being respectively 13 : 7 and 18 : 17. If the contents(wine and water) of the two casks be mixed and 20 L of water is added to this mixture then what will be the proportion of wine to water in the resultant solution?
- (a) 21 : 31 (b) 12 : 13
(c) 13 : 12 (d) 12 : 17
(e) 31 : 21
105. Pankaj walked at 5 km/h for certain part of the journey and then he took an auto for the remaining part of the journey and travelling at 25 km/h. He took 10 hours for the entire journey, then find what part of journey did he travelled by auto if the average speed of the entire journey be 17 km/h:
- (a) 750km (b) 100km
(c) 150km (d) 200km
(e) 250km
106. Rohit, Harsha and Sanjeev are three typists who working simultaneously can type 216 pages in four hours. In one hour Sanjeev can type as many pages more than Harsha as Harsha can type more than Rohit, During a period of five hours Sanjeev can type as many pages as Rohit can during seven hours. How many pages does each of them type per hour?
- (a) 16, 18, 22 (b) 14, 17, 20
(c) 15, 17, 22 (d) 15, 18, 21
(e) None of these
107. According to a plan, a drilling team had to drill to a depth of 270 metres below the ground level. For the first three days the team drilled as per the plan. However, subsequently finding that their resources were getting underutilized according to the plan, it started to drill 8 metres more than the plan every day. Therefore, a day before the planned date they had drilled to the depth of 280 metres. How many metres of drilling was the plan for each day? **8**
- (a) 38 metres (b) 30 metres
(c) 27 metres (d) 28 metres
(e) 24 metres
108. In an election between 2 candidates, 75% of the voters cast their votes, out of which 2% votes were declared invalid. A candidate got 9261 votes which were 75% of the valid votes. The total number of voters enrolled in the election was:
- (a) 16000 (b) 16400
(c) 16800 (d) 18000
(e) 18600
109. Mr. X a businessman, had the income in the years 1995, such that he earned a profit of 20% on his investment in the business. In the year 1996 his investment was less by Rs. 5000 but still had the same income (income = investment + profit) as that in 1995. Thus the percentage value of profit earned in 1996 increased by 6 than that in 1995. What was his investment in 1995?
- (a) Rs. 1,02,000 (b) Rs. 1,50,500
(c) Rs. 1,05,000 (d) Rs. 1,30,500
(e) None of these
110. Rashmi had Rs. 4200. She invested some of it in scheme A for 4 years and rest of the money she invests in scheme B for two years. Scheme A offers simple interest at a rate of 22% p.a. and scheme B offers compound interest (compounded annually) at a rate of 10% p.a. if the interest received from Scheme A is ₹. 1516 more than the interest received from Scheme B, what was the sum invested by her in scheme A?
- (a) ₹2,600 (b) ₹2,000
(c) ₹2,200 (d) ₹2,400
(e) ₹1800

PART C : REASONING ABILITY

DIRECTIONS (Qs. 111-115): Study the following information carefully and answer the questions that follow.

Eight friends A, B, C, D, W, X, Y and Z are sitting around a rectangular table. They like different fruits viz. papaya, pineapple, Guava, cherry, peach, Orange, plum and banana but not necessarily in same order. Three persons are sitting on each smaller side and one on each longer side of the table. All are facing towards the centre. D is sitting second to the right of the person who likes banana fruit. W is sitting third to the left of the person who likes Orange fruits. X and Y are sitting opposite to each other. C is sitting diagonally opposite to the person who likes plum fruits. B is sitting opposite to the person who likes papaya fruits. The person who likes cherry fruits is sitting second to the right of the person who likes peach fruits and second to the left of A, who is not sitting near to the person who likes plum fruits. Y is sitting on the longer side and to the right of the person who likes plum fruits. The Person who likes peach fruits and the person who likes cherry fruits are not on the same side of the table. Person who likes cherry fruits is sitting third to the



right of the person who likes banana fruits, who is not sitting diagonally opposite to the person who likes either pineapple or orange fruits. Z sits immediate right of X.

111. C likes which of the following fruits?
(a) Papaya (b) Pineapple
(c) Peach (d) Either (a) Or (b)
(e) Either (a) Or (c)
112. Who is sitting diagonally opposite to one who likes plum fruit?
(a) Z (b) A
(c) C (d) W
(e) None of these
113. Which pairs is sitting on the same side of the table?
(a) DZB (b) DYA
(c) ACD (d) CXW
(e) None of these
114. Who among the following sitting on the longer side of the table?
(a) The One who likes peach fruit
(b) The one who likes guava fruit
(c) The one who likes papaya fruit
(d) The one who likes cherry fruit
(e) None of these
115. Which of the following combination is correct?
(a) W - Peach (b) D - Plum
(c) X - Banana (d) Z - Pineapple
(e) None of these

DIRECTIONS (Qs. 116-120): In these questions, relationship between different elements is shown in the statements.

These statements are followed by two conclusions.

Mark answer as

- (a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.
116. Statements: $A < C < D = F, E > C > B$
Conclusions: I. $F < E$ II. $F > B$
117. Statements: $M > O, H \geq M < P < A = Q$
Conclusions: I. $O < A$ II. $O < H$
118. Statements: $A > C > M > D = S, C = Z > N$
Conclusions: I. $N < D$ II. $N \geq D$
119. Statements: $P < R > Q, T < R \geq S$
Conclusions: I. $P > T$ II. $S \leq P$
120. Statements: $A \geq J < P = X > M > R$
Conclusions: I. $A > P$ II. $R < P$

DIRECTIONS (Qs. 121-125): Study the following information carefully and answer the given question.

In a family there are eight members viz. Arjun, Bina, Chandu, Diya, Erfan, Falguni, Gyan and Himani are sitting around a square table in such a way that four of them sit at four corners of the square while four sits in the middle of each of the four sides. The

one who sit at the four corners face the centre of the table while those who sit in the middle of the sides face outside. Each one of them Stay in a different floor viz. 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th. (None of the information given is necessary in the same order). Chandu sits third to left of the one who Stay on 8th floor. The one who Stay on 8th floor faces outside. Only two people sit between Chandu and Himani who is grandmother of Chandu. The one who Stays on 1st floor sits to immediate right of Himani. The one who stays on 5th floor sits second to the right of Gyan who is father of Erfan. Gyan is neither an immediate neighbor of Himani nor Chandu. Gyan does not stay on 8th floor. Only one person sits between Arjun who is grandfather of Diya and the one who Stay on 5th floor. Arjun is brother of Erfan. Chandu is the father of Diya. Diya sits to immediate left of the one who Stays 6th floor. Gyan does not Stay on 6th floor. Erfan Stay on 7th floor. Erfan is not an immediate neighbor of Arjun who is the only brother in law of Falguni. The one who Stay on 2nd floor is an immediate neighbor of Erfan who is son of Himani. The one who Stay on 4th floor is an immediate neighbour of Falguni. Chandu sits immediate right to his wife. Diya is a female. Falguni is sister in law of Arjun, who has only one son.

121. What is the relation of Chandu with the person who stay on 8th floor?
(a) She is the Mother of Chandu
(b) She is the Aunt of Chandu
(c) He is the Uncle of Chandu
(d) He is the Father of Chandu
(e) Can't be determined.
122. Who amongst the following sits diagonally opposite to the one who Stay on 1st floor?
(a) The one who is father in law of Falguni.
(b) Diya
(c) Arjun
(d) The one who is father of Chandu
(e) The one who Stays on 4th floor
123. Who amongst the following represents the immediate neighbour of the one who Stays on 5th floor?
(a) Bina, Falguni (b) Chandu, Erfan
(c) Bina, Erfan (d) Diya, Falguni
(e) Falguni, Himani
124. Who amongst the following sits exactly between Himani and Bina when counted in anticlockwise direction with respect to Bina?
(a) Chandu
(b) The one who Stays on 4th floor
(c) The one who Stays on 7th floor
(d) Gyan
(e) Arjun
125. Which of the following is true regarding Bina?
(a) Bina is one of the immediate neighbour of Diya
(b) The one who Stays on 8th floor is an immediate neighbor of Bina
(c) Bina sits second to left of Himani
(d) Bina Stays on 7th floor
(e) Bina is an immediate neighbour of the one who Stays on 1st floor.

DIRECTIONS (126-130): In each of the questions given below some statements are followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- (a) If only conclusion I follows.
 (b) If only conclusion II follows.
 (c) If either conclusion I or II follows.
 (d) If neither conclusion I nor II follows.
 (e) If both conclusions I and II follow.

126. **Statements:**

Some Apple are mango

No mango is blood

Only Blood is Heart

Conclusion:

I. Some Heart is not Mango

II. All blood can be Apple

127. **Statements:**

Only a few Queue is long

Some Long are Short

Some Short is Bottle

Conclusion:

I. All Long can be Short

II. All queue can be Long

128. **Statements:**

All arrogant are table

Some table are tree

All tree are parrot

Conclusion:

I. All tree are arrogant

II. Some tree are not arrogant

129. **Statements:**

No house is luxury

Some luxury is car

Only car is Scooter

Conclusions:

I. Some scooter can be car

II. Some car is not house

130. **Statements:**

All black are white

Some black are green

Only a few Green are Yellow

Conclusions:

I. All green can be white

II. Some yellow can be black

DIRECTIONS (Qs. 131-135): Study the information carefully and answer the questions given below.

Seven Friends who is working in the same company name as Riya, Sejal, Jeevan, Vijay, Rahul, Rohin, and Kanwar are living in

a seven floor building but not necessary in the same order. They were born on different month of the same year August, October, September, April, June, February and July but not necessary in the same order. The ground floor is numbered 1, while the topmost floor is numbered as 7. Jeevan lives on one of the odd number floors below the floor number 4. The Friend who lives on 4th floor was born in June. There is only one Friend lives between Kanwar and the Friend who was born in June. Kanwar lives below the Friend whose birthday is in June. The number of Friends lives between Sejal and Rohin is same as that between Sejal and Kanwar. There are two Friends live between Jeevan and Sejal. Riya is oldest and lives on an odd numbered floor either on top most floor or lowermost floor. There is only one Friend lives between Sejal and Rohin who was not born in September. There are three Friends living between the Friend who was born in September and the Friend who was born in April. The Friend who lives on topmost floor was not born in August. There is only one Friend living between Jeevan and Vijay who was born in July and lives below the Friend who was born in June. Jeevan was not born on August and February. Kanwar was not born in April. The Friend who is second youngest lives on an even number floor but not on the top floor.

131. The youngest Friend amongst them lives on which of the following floors?

- (a) Third (b) Fourth
 (c) Fifth (d) First
 (e) Seventh

132. How many floors are below the floor on which Rahul lives?

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

133. Who among the following lives on the second floor when all the Friends are arranged in increasing order of their ages from top to bottom?

- (a) Sejal (b) Vijay
 (c) Rahul (d) Rohin
 (e) Kanwar

134. Rahul was born in?

- (a) October (b) August
 (c) June (d) July
 (e) September

135. How many Friends are living below the oldest member of them all?

- (a) Seven
 (b) Five
 (c) Four
 (d) Less than four
 (e) None of these.

DIRECTIONS (Qs. 136-140): Study the given information and answer the questions:

Seven students A, B, C, D, E, F and G are sitting in a straight line facing north. Each one of them studies in different class of courses i.e. MBA, MCA, BCA, B.com, B.tech, B.arch and B.Sc. They like different colors i.e. Blue, White, Red, Violet, Yellow, Black and Green but not necessarily in same order. B sits fourth to the left of the person who studies in MCA class. Either B or the person who studies in MCA class sits at the extreme ends of the line. The one who likes Red sits at extreme end and is immediate neighbor of A. Only one person sits between B and G who likes Black. G studies in on the B.Sc class. The person who studies in B.arch class sits third to right of D. D is not an immediate neighbour of G. Only two person sits between E and the person who studies in MBA class. F likes green and sits immediate left of the one who likes Yellow. D does not like White. A and C are immediate neighbours of each other. A does not study in B.com class. One who studies in BCA class sits third to right of the one who studies in B.tech class. There are two people sit between the one who likes Yellow and the one who likes Violet.

136. In which of the following class D studies?
 (a) MBA (b) B.arch
 (c) MCA (d) B.com
 (e) None of these
137. Who amongst the following studies in B.tech class?
 (a) A (b) B
 (c) C (d) G
 (e) F
138. How many students sit left to the one who likes Yellow?
 (a) Two (b) One
 (c) Four (d) Three
 (e) None
139. In which of the following class C studies?
 (a) BCA (b) B.arch
 (c) MCA (d) B.com
 (e) None of these
140. How many students sit between the one who studies in B.arch class and the one who likes Black?
 (a) Two (b) One
 (c) Four (d) Three
 (e) None of these

DIRECTIONS (Qs. 141-142): Read the information carefully and answer the questions given below

Building P is to the North of building Q and to the West of building R. Building M is to the west of building R and north of building O. Building Q is to the southeast of building M and to the northwest of building N, which is to the east of building O.

141. Building Q is in which direction with respect to building R?
 (a) South (b) West
 (c) Northeast (d) Southwest
 (e) None of these
142. Building R is in which direction with respect to building N?
 (a) South (b) West
 (c) Northeast (d) Can't be determined
 (e) None of these

DIRECTIONS (Qs. 143-147): Answer the questions on the basis of the information given below. **11**

A number arrangement machine when given an input of numbers/ words, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

Input: Yen 92 13 mango apple unnao 12 fun eye 85
 Step I: 85 Yen 92 13 mango apple unnao 12 fun eye
 Step II: 85 13 Yen 92 mango apple unnao 12 fun eye
 Step III: 85 13 92 Yen mango apple unnao 12 fun eye
 Step IV: 85 13 92 12 Yen mango apple unnao fun eye
 Step V: 85 13 92 12 apple Yen mango unnao fun eye
 Step VI: 85 13 92 12 apple eye Yen mango unnao fun
 Step VII: 85 13 92 12 apple eye unnao Yen mango fun
 Step VIII: 85 13 92 12 apple eye unnao fun Yen mango
 Step IX: 85 13 92 12 apple eye unnao fun mango Yen

This is the final arrangement and step IX is the last step for this input.

Find out in each of following questions the appropriate steps for the given input

- Input: Table 37 rose 88 65 olive apple van 8
143. Which of the following is the second step for input?
 (a) 65 37 Toy 88 rose olive apple van 8
 (b) 65 Table 37 rose 88 olive apple van 8
 (c) 65 37 Table rose 88 olive apple van 8
 (d) 88 37 Table rose 65 olive apple van 8
 (e) None of these
144. Which of the following is the last step of above input?
 (a) III (b) VI
 (c) VII (d) IX
 (e) None of these
145. Which is the following step of above given input? Step: 65 37 88 8 apple Table rose olive van ?
 (a) VI (b) III
 (c) IV (d) V
 (e) There is no such step
146. Which of the following element is at 5th position from left end of Step V?
 (a) 8 (b) 88
 (c) Apple (d) Rose
 (e) None of these
147. Which of the following would definitely be the input if step II of an input is?
 step II: 93 33 88 root 16 input upper dusk .
 (a) 93 33 88 16 root input upper dusk
 (b) 93 33 88 16 input root upper dusk
 (c) 93 33 88 16 input upper root dusk
 (d) Cannot be determined
 (e) None of these.

157. What does code 'ro' stand for?

- (a) Ajay (b) Aditi
(c) Ankit (d) Abhi
(e) Either 'Amul' or 'Abhi'

158. Which of the following code may be for 'Ankit Aditi Adarsh'?

- (a) ve ba yo (b) ve se ba
(c) ba zi di (d) ba ka zi
(e) ba fe ve

159. What is the code for 'Abhi'?

- (a) ve (b) ka
(c) la (d) di
(e) Either 'di' or 'ro'

160. What is the code for 'Amul'?

- (a) ba (b) ro
(c) yo (d) se
(e) Cannot be determined

DIRECTIONS (Qs. 161-163): Study the following information carefully and answer the questions given below:

Ajay is 10m west of Beena. Farukh is 12m north of Geeta. Deepa is 20m east of Chandu. Esha is 17m south-west of Deepa and south of Farukh. Chandu is 8m south of Ajay. Deepa is 15m east of Geeta.

161. What is the shortest distance between Geeta and Esha ?

- (a) 13m (b) 11m
(c) 10m (d) 8m
(e) None of these

162. What is the direction of Deepa with respect to Beena?

- (a) North (b) South-east
(c) North-west (d) South
(e) None of these

163. What is the direction of Ajay with respect to Esha?

- (a) North-west (b) South
(c) South-east (d) West
(e) None of these

DIRECTIONS (Qs. 164-165): Study the following information and answer the given questions.

There are seven members in the family. G is the sister of H. I is wife of H. I has only one son K. E is mother of I. E is married to F. F has only one son and only one daughter. J is brother-in-law of H.

164. How F is related to I ?

- (a) Father (b) Cannot be determined
(c) Brother (d) Brother-in-law
(e) Uncle

165. As per the given information, how is H related to E?

- (a) son (b) son-in-law
(c) niece (d) nephew
(e) daughter-in-law

DIRECTIONS (Qs. 166-167): Study the following information and answer the given questions. **13**

@ E K 4 F 7 B 5 R 1 © D A M 6 U J \$ V Q # 2 P 3 % 9 H I W 8 *

166. Four of the following five are alike in a certain way based on their position in the above arrangement and so form a group. Which is the one that does not belong to that group?

- (a) FB7 (b) 23P
(c) 9IH (d) V2#
(e) 1D©

167. How many such symbols are there in the above arrangement each of which is immediately preceded by a consonant but not immediately followed by a Vowel?

- (a) None (b) One
(c) Two (d) Three
(e) More than three

168. **Statement:** Should there be a ban on product advertising?

Arguments:

I. I. No. It is an age of advertising. Unless your advertisement is better than your other competitors, the product will not be sold.

II. II. Yes. The money spent on advertising is very huge and it inflates the cost of the product.

- (a) Only argument I is strong
(b) Only argument II is strong
(c) Either I or II is strong
(d) Neither I nor II is strong
(e) Both I and II are strong

169. **Statement:** There is a substantial increase in the number of accidents causing deaths and severe injuries due to malfunctioning of the traffic signals.

Courses of Action:

I. The traffic police should immediately post traffic personnel at the junctions.

II. The signal system should immediately be repaired or replaced.

- (a) Only I follows (b) Only II follows
(c) Either I or II follows (d) Neither I nor II follows
(e) Both I and II follows

170. **Statements:** Fashion is a form of ugliness so intolerable that we have to alter it every six months.

Conclusions:

I. Fashion designers do not understand the public mind very easily.

II. The public by and large is highly susceptible to novelty.

- (a) Only conclusion I follows
(b) Only conclusion II follows
(c) Either I or II follows
(d) Neither I nor II follows
(e) Both I and II follows

DIRECTIONS (Qs. 171-176): Read the following passage carefully and answer the questions given below them. Certain words/phrases have been printed in bold to help you locate them while answering some of the questions.

The likelihood of at least 600,000 deaths being caused annually in India by fine particulate matter pollution in the air is cause for worry, even if the data released by the World Health Organisation are only a modelled estimate. The conclusion that so many deaths could be attributed to particulate matter 2.5 micrometres or less in size is, of course, **caveated**, since comprehensive measurement of PM2.5 is not yet being done and the linkages between pollution, disease and deaths need further study. What is not in doubt is that residents in many urban areas are forced to breathe unhealthy levels of particulates, and the smallest of these - PM10 and less - can **penetrate** and get lodged deep in the lungs. The WHO Global Burden of Disease study has been working to estimate pollution-linked health impacts, such as stroke and ischaemic heart disease, acute lower respiratory infection and chronic obstructive pulmonary disease.

Data on fine particulates in India show that in several locations the pollutants come from burning of biomass, such as coal, fuel wood, farm litter and cow dung cakes. In highly built-up areas, construction debris, road dust and vehicular exhaust add to the problem. The Prime Minister launched an Air Quality Index last year aimed at improving pollution control. The new data, which the WHO says provide the best evidence available on the terrible toll taken by particulates, should lead to intensified action. A neglected aspect of urban air pollution control is the virtual discarding of the Construction and Demolition Waste Management Rules, notified to sustainably manage debris that is dumped in the cities, creating severe particulate pollution.

The Environment Ministry has highlighted the role that debris can play as a resource. Municipal and government contracts are, under the rules, required to utilise up to 20 per cent materials made from construction and demolition waste, and local authorities must place containers to hold debris. This must be implemented without delay. Providing cleaner fuels and scientifically designed cookstoves to those who have no option but to burn biomass, would have a big impact on reducing particulate matter in the northern and eastern States, which are the worst-hit during winter, when biomass is also used for heating. Greening the cities could be made a mission, involving civil society, with a focus on landscaping open spaces and paving all public areas to reduce dust. These measures can result in lower PM10 and PM2.5 levels. Comprehensive measurement of these particulates is currently absent in many cities, a lacuna that needs to be addressed.

171. Which is/are the adverse effects on health according to WHO Global Burden of Disease study?
- (I) stroke and ischaemic heart disease
 - (II) infection of the lower respiratory system
 - (III) diabetes and kidney related problem
- (a) only (III) (b) only (I)
 (c) Both (I) and (II) (d) None of the above
 (e) All (a), (b) and (c)

172. Which of the following statements is not true in the context of the passage? **14**

- (I) Data on fine particulates in India show that in several locations the pollutants come from burning of biomass, such as coal, fuel wood, farm litter and cow dung cakes.
 - (II) Debris that is dumped in the cities, does not create severe particulate pollution.
 - (III) The new data, which the WHO says provide the best evidence available on the terrible toll taken by particulates, should lead to intensified action.
- (a) Only I (b) Only II
 (c) Only III (d) None is true
 (e) All are true
173. Which of the following is/are the ways for lowering particulate matter in the atmosphere?
- (I) landscaping open areas
 - (II) providing cooking stoves designed scientifically
 - (III) making cleaner fuels available
- (a) only (III) (b) only (I)
 (c) Both (I) and (II) (d) only (II)
 (e) All of the Above
174. Which of the following should be a suitable title for the passage?
- (a) WHO and its efforts
 - (b) pollution level in India and the world
 - (c) Adverse effect of pollution on health and control measures
 - (d) measures to reduce PM 2.5 level
 - (e) None of the Above

175. Choose the word which best expresses the meaning of the following word given in bold in the passage

CAVEAT

- (a) neglect (b) flatter
- (c) warning (d) unhygienic
- (e) safety

176. Choose the word which best expresses the OPPOSITE meaning of the following word given in bold in the passage

PENETRATE

- (a) retreat (b) invade
- (c) pierce (d) stab
- (e) probe

DIRECTIONS (Qs. 177-182): Read the following passage very carefully and answer the questions given below. Certain words are printed in bold to help you locate them while answering some of the questions.

The science-communication capability of a society, at the grass-roots level, is of critical importance. However, we have very little expertise in this direction. The scientific community may not be well equipped to understand the social implications of its research. So, it should work closely with social scientists, public interest groups, the bureaucracy and the political system. Scientists have to inform the end users about the developments

185. Maharashtra is already facing so many water (a)/ scarcity problems on top of that (b)/ water is getting waste in holidays (c) / it is not at all tolerable (d). /No error
- (a) a (a) b
(b) c (c) d
(d) no error
186. Honesty and integrity are (a)/ the qualities which cannot be (b) / done away with and (c) / hence assumes a lot of importance (d). /No error
- (a) a (b) b
(c) c (c) d
(e) no error

DIRECTIONS (Qs. 187-191): choose the option which can replace the underlined part to make the sentence correct. If there is no error, choose (e) no improvement required as your answer.

187. the room had been brighter, I would have been able to read for a while before bed time.
- A. If the room was brighter
B. If the room are brighter
C. Had the room been brighter
D. If the room brighter were
E. no improvement

Answer: Option C

188. Not only they need clothing, but they are also short of food.
- (a) Not only they needed
(b) Not only do they need
(c) Not only did they need
(d) not they only need
(e) No improvement
189. The ground was wet outside when I got up in the morning. It had been raining all in the night.
- (a) rained in
(b) rained all in
(c) been raining all through
(d) raining all in
(e) No improvement
190. My doctor said me to take the holidays.
- (a) Suggested me to take
(b) Suggested that I should
(c) Suggested to take
(d) Said to taking
(e) No improvement required
191. There is no deny fact that she broke it.
- (a) No question of denying the fact that
(b) No denying the fact that
(c) No denial the fact that
(d) No deny fact for
(e) No improvement required

DIRECTIONS (Qs. 192-197): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

States in South and Southeast Asia are.....1..... in multiple regional initiatives led by India and China but are unable to get the benefit due to their slow progress. The South Asian Association.....2..... Regional Cooperation remains moribund with little hope of it becoming functional in the near future. The Bay of Bengal too remains among3.....integrated regions in spite of having immense potential of enhancing trade through utilisation of its ports and waterways. The India-led Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) involving Bangladesh, Bhutan, India, Myanmar, Nepal, Sri Lanka, and Thailand, has made little progress. Serving as a funnel to the Malacca Straits, one of the world's busiest4....., the Bay of Bengal has now become one of the most important strategic hotspots for global trade and all countries in BIMSTEC are losing out due to this prolonged period of dormancy. In all this time, the organisation has only had meetings, negotiations and leaders' summit and stalled free trade agreement negotiations. However, there has been some5.....through the establishment of the BIMSTEC Energy Centre and a task force on Trans Power Exchange and Development Projects, which was6..... to develop a memorandum of understanding for the establishment of the BIMSTEC Grid Interconnection.

192. Choose the best option to fill in the blank no.1
- (a) indulge (b) involved
(c) `involve (d) shown
(e) faced
193. Choose the best option to fill in the blank no.2
- (a) of (b) to
(c) from (d) for
(e) between
194. Choose the best option to fill in the blank no.3
- (a) the last (b) the less
(c) the least (d) the little
(e) the latest
195. Choose the best option to fill in the blank no.4
- (a) waterways (b) waterway
(c) water (d) way
(e) the waterway
196. Choose the best option to fill in the blank no.5
- (a) decline (b) progresses
(c) progress (d) problem
(e) evaluation
197. Choose the best option to fill in the blank no.6
- (a) establish (b) established
(c) reducing (d) promotion
(e) reduced

DIRECTIONS (Qs. 198-200): In the following questions two columns are given containing three Sentences/phrases each. In first column, sentences/phrases are A, B and C and in the second column the sentences/phrases are D, E and F. A sentence/phrase from the first column may or may not connect with another sentence/phrase from the second column to make a grammatically and contextually correct sentence. Each question has five options, four of which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. If none the options given forms a correct sentence after combination, mark option (E), i.e. "None of these" your answer.

- | 198. | Column 1 | Column 2 |
|------|--|---|
| (A) | The deferring of immunisation will increase | (D) their burden of measles cases significantly. |
| (B) | Global, national and local organisations and health workers have slogged | (E) for decades to eradicate these diseases through immunisation. |
| (C) | Polio has been eradicated | (F) from much of the world |
| (a) | (A)-(D) | (b) (B)-(E) |
| (c) | (C)-(F) | (d) none of these |
| (e) | all the above | |

- | | | |
|------|--|---|
| 199. | Column 1 | Column 2 |
| (A) | the incidence of several diseases that are preventable | (D) through immunisation was increasing. |
| (B) | Global health bodies and national government have | (E) and health workers. |
| (C) | There is a shortage of vaccines | (F) had to make a difficult choice. |
| (a) | (A)-(E) | (b) (B)-(D) |
| (c) | (C)-(E) | (d) both (A)-(D) and (C)-(F) |
| (e) | none of these | |
| 200. | Column 1 | Column 2 |
| (A) | Trust in stock exchanges and mutual funds needs to be affirmed and strengthened | (D) stimulus measures in recent weeks |
| (B) | The RBI decision comes on top of an earlier assurance made by the Association of | (E) in these difficult times because large investments have been made in them. |
| (C) | This is the third instalment of the RBI's financial | (F) Mutual Funds in India (AMFI) that there is no liquidity crunch in the industry. |
| (a) | (A)-(E) | (b) (B)-(D) |
| (c) | (C)-(E) | (d) both (A)-(D) and (C)-(F) |
| (e) | none of these | |

HINTS & SOLUTIONS

1. (d) The headquarters of Credit Saison India, which has received a non-banking financial company (NBFC) licence from the Reserve Bank of India is in Bengaluru.
2. (b) Lalji Tandon is an Indian politician serving as the 22nd and current Governor of Madhya Pradesh.
3. (e) Lakshmi Vilas Bank (LVB) is a scheduled commercial bank. It is an old private sector bank founded in 1926. The headquarter of Lakshmi Vilas Bank is in Chennai.
4. (d) Vietnam has inaugurated Southeast Asia's largest solar power farm which has the capacity to produce 688 million kWh of electricity annually.
5. (c) The International Atomic Energy Agency (IAEA) is an international organization that seeks to promote the peaceful use of nuclear energy, and to inhibit its use for any military purpose, including nuclear weapons. It is headquartered at Vienna, Austria.
6. (b) The Reserve Bank of India (RBI) announced a minimum equity capital of Rs 200 crore to set up a small finance bank (SFB) under the 'on tap' licence regime to expand the banking services through high technology-low cost operations.
7. (c) UN-Habitat is the United Nations programme working towards a better urban future. It is headquartered at Nairobi, Kenya.
8. (a) The Nobel Prize in Chemistry 2019 rewards the development of the Lithium-Ion Battery.
9. (c) Novak Djokovic beats John Millman to win the Japan Open 2019.
10. (d) Peter Higgs and Francois Englert has shared the 2013 Nobel Prize in Physics.
11. (a) Pakyong Airport is a greenfield RCS airport in Gangtok, Sikkim.
12. (b) India-Maldives joint military exercise 'Ex EKUVERIN - 2019' culminated with an impressive closing ceremony held in Pune.
13. (e) Indian batsman Rohit Sharma is launching the Rohit4Rhinos campaign, in partnership with WWF India and Animal Planet, to help build awareness for the need to conserve the Greater One-Horned Rhinoceros or the Indian Rhino.
14. (d) Defence minister Rajnath Singh has attended the meeting of the Council of Heads of Government (CHG) of Shanghai Cooperation Organisation (SCO) in Tashkent, Uzbekistan.
15. (e) G20 2020 summit will be held in Riyadh, Saudi Arabia.
16. (c) Visa has signed up world badminton champion Pusarla Venkata Sindhu (PV Sindhu) as its brand ambassador for two years.
17. (d) Rudrasagar Lake, also known as Rudijala, is a lake located in Tripura.
18. (c) Radha Krishna Mathur is the first Lieutenant Governor of the union territory of Ladakh.
19. (b) SEBI has announced relaxation in norms for 'Muni Bonds' to help smart cities and other registered entities working in areas of city planning and urban development work like municipalities to raise funds through issuance and listing of their debt securities.
20. (b) SEBI has constituted a working group on Social Stock Exchanges (SSE) under the chairmanship of Ishaat Hussain, Director, SBI Foundation.
21. (b) Piyush Goyal is the Minister of Railways and Minister of Commerce & Industry in the Government of India. The Constituency of Piyush Goyal is in Maharashtra.
22. (e) The Ratapani Tiger Reserve has been located in Madhya Pradesh.
23. (a) England all-rounder Ben Stokes has won the Professional Cricketers' Association awards recently.
24. (e) The Athletics Integrity Unit has banned Indian sprinter Sheoran Nirmla for four-year.
25. (b) India's first e-waste clinic to be set up in Bhopal.
26. (a) The Reserve Bank of India has given the final approval for the merger of district co-operative banks in Kerala.
27. (d) The Railway ministry, Department of Science & Technology and IIT- Kanpur have forged an association on a project on 'Industry 4.0', which includes a host of digital technologies like artificial intelligence, Big Data, machine learning and cloud computing.
28. (b) Lessons Life Taught Me, Unknowingly - An Autobiography by Anupam Kher.
29. (d) Bing Dwen Dwen is the official mascot of the 2022 Winter Olympics held in China.
30. (c) Tata Boeing Aerospace delivers first AH-64 Apache combat helicopter.
31. (e) The World Hindu Economic Forum 2019 was held in Mumbai.
32. (d) The World Economic Forum Annual Meeting 2020 will be held in Davos, Switzerland.
33. (c) "Young Teachers: The Future of the Profession" is theme for the World Teachers' Day 2019.
34. (d) The integrated exercise named 'Chang Thang' was conducted in Ladakh.
35. (c) Trying to meet the disinvestment target set by the government, the Department of Disinvestment and Public Asset Management (DIPAM) and Niti Aayog are looking at the scope of putting various public sector enterprises (PSUs) on the block.
36. (d) GirlForce: Unscripted and Unstoppable is the theme for the International Day of the Girl Child 2019.
37. (d) Reliance Insurance is one of the best life insurance companies in India catering to customers with wide range of life insurance policies. Now Reliance Insurance known as Reliance Nippon Life Insurance.
38. (c)
39. (d) The headquarter of Laxmi Vilas Bank is at Chennai.

40. (b) NTPC to build India's biggest solar park in Gujarat.
41. (a) The climate activist Greta Thunberg belongs to Sweden.
42. (d) Helsinki is the capital of Finland.
43. (b) Dr HL trivedi, the Nephrologist and the Padma Shri Awardee passed away recently.
44. (b) India leads the list of countries with maximum migrants around the world, accounting for about 18 million persons living abroad.
45. (a) The Ministry of Health and Family Welfare recently conducted the first-ever comprehensive National Nutrition Survey with the help of UNICEF.
46. (d) The campaign "Sabse Pahle Life insurance" launched by Life Insurance Council to raise awareness about the importance of life insurance.
47. (d) The movie "Gully Boy" has been nominated for the Oscar. The movie is directed by Zoya Akhtar.
48. (e) The Vikram Sarabhai Library bagged the UNESCO Asia Pacific Award for Cultural Heritage Conversation 2019. The library is located in IIM Ahmedabad.
49. (c) The 5th edition of the World Parliament of science, religion and philosophy was organized by MIT World Peace University in Pune.
50. (d) Three railway stations of Rajasthan has bagged top honours in the railways' cleanliness survey unveiled by Railway Minister Piyush Goyal.
51. (b) India will offer \$ 236 mn as additional credit to Mongolia for setting up a 1.5 million tonne per annum oil refinery.
52. (a) India is set to increase its public health spending to 2.5 per cent of its gross domestic product (GDP) by 2025.
53. (c) Fakir Hassen is the author of the book titled "150 Years of Celebrating the Mahatma the South African Legacy" which was recently launched in Johannesburg, South Africa.
54. (c) Article 15 of the Indian Constitution is related to Prohibition of discrimination on grounds of religion, race, caste, sex or birth.
55. (d) Sarah Taylor is a women cricketer. She plays for England.
56. (c) UNESCO has decided to translate and publish an anthology of the writings of Guru Nanak Dev in world languages to mark his 550th birth anniversary.
57. (e) Indian Army's biggest mountain combat exercise 'Him Vijay' was conducted in Arunachal Pradesh.
58. (d) ICICI Bank has deployed 'Robotic Arms' for currency sorting at its chests.
59. (b) Axis Bank has announced the launch of a digital fixed-deposit product called 'Express FD'.
60. (d) The world's population is expected to increase by 2 Billion persons in the next 30 years as per the World Population Prospects 2019.
61. (a) The army of China is also known as the People's Liberation Army.
62. (d) Goa and Madhya Pradesh were the joint winners in the Adventure Tourism category at the National Tourism Awards 2017-18.
63. (b) NITI Aayog's Atal Tinkering Labs (ATL) has launched 'The Gandhian Challenge' on the 150th birth Anniversary of Mahatma Gandhi along with UNICEF.
64. (e) United Bank of India will be merged with Punjab National Bank.
65. (d) LIC has decided to infuse ₹ 4700 crore in IDBI Bank.
66. (a) Project NETRA was recently initiated by ISRO to safeguard Indian space assets from debris and other harm.
67. (b) IAAF World Athletics Championships was recently held at Doha, Qatar.
68. (d) Edgar Chagwa Lungu is the president of Zambia.
69. (b) Finance Minister Nirmala Sitharaman has inaugurated the National e-Assessment Centre (NeAC) in New Delhi.
70. (c) The WTO hosted the first World Cotton Day (WCD) Conference at Geneva.
71. (e) Salwa Eid Nasser has won the gold medal in the 400m women's race for 2019 IAAF World Athletics Championships. She is from Bahrain.
72. (b) Kaleshwaram Lift Irrigation project was recently inaugurated in Telangana.
73. (d) 14th Session of the Conference of the Parties to the UN Convention to Combat Desertification (COP 14) was held in India.
74. (c) Gujarat has recently launched the Emissions trading scheme.
75. (d) Paolo Borrometi, the Italian journalist will receive the 2019 Peter Mackler Award for Courageous and Ethical Journalism.
76. (a) Gujarat has inked a 'sister state agreement' MoU with "New Jersey" for cooperation in economic development, clean energy, higher education, tourism, cultural exchange as well as health and trade-investment.
77. (e) 'Delhi Youth Parliament', a mock Assembly session will be held to mark the silver jubilee of the House and the 150th birth anniversary of Mahatma Gandhi.
78. (a) "The Third Pillar" book is written by Raghuram Rajan. In The Third Pillar he offers up a magnificent big-picture framework for understanding how these three forces-the state, markets, and our communities-interact, why things begin to break down, and how we can find our way back to a more secure and stable plane.
79. (b) On September 3, the government had approved Rs 9,300 crore capital infusion into IDBI Bank to increase the lender's capital base. Capital to the government and Life Insurance Corporation (LIC) totalling up to Rs 4,557 crore and Rs 4,743 crore respectively. The decision is subject to customary regulatory approvals.
80. (d) Radha Krishna Mathur is a retired 1977 batch IAS officer of Tripura cadre is the first Lieutenant Governor of the union territory of Ladakh. He retired as the Chief Information Commissioner of India (CIC) in November 2018.

81. (d) Required percentage

$$= \frac{70000 \times \frac{31}{100}}{70000 \times \frac{15}{100}} \times 100 = \frac{31}{15} \times 100 \approx 207\%$$

82. (c) Number of Boys in College

$$P = 70000 \times \frac{18}{100} \times \frac{30}{100} = 3780$$

$$Q = 70000 \times \frac{22}{100} \times \frac{55}{100} = 8470$$

$$R = 70000 \times \frac{31}{100} \times \frac{60}{100} = 13020$$

$$S = 70000 \times \frac{15}{100} \times \frac{40}{100} = 4200$$

$$T = 70000 \times \frac{14}{100} \times \frac{20}{100} = 1960$$

Total number of boys in all the Colleges together
 $= 3780 + 8470 + 13020 + 4200 + 1960 = 31430$

83. (b) Total number of boys in Colleges P and R together

$$P = 70000 \times \frac{18}{100} \times \frac{30}{100} = 3780$$

$$R = 70000 \times \frac{31}{100} \times \frac{60}{100} = 13020$$

$$= 3780 + 13020 = 16800$$

Total number of girls in Colleges Q and S together

$$Q = 70000 \times \frac{22}{100} \times \frac{45}{100} = 6930$$

$$S = 70000 \times \frac{15}{100} \times \frac{60}{100} = 6300$$

$$= 6930 + 6300 = 13230$$

Required ratio $= 16800 : 13230 = 1680 : 1323$

84. (a) The number of boys in College Q

$$Q = 70000 \times \frac{22}{100} \times \frac{55}{100} = 8470$$

The number of boys in College T

$$T = 70000 \times \frac{14}{100} \times \frac{20}{100} = 1960$$

Difference $= 8470 - 1960 = 6510$

85. (e) Total number of boys in College P, S and T

$$P = 70000 \times \frac{18}{100} \times \frac{30}{100} = 3780$$

$$S = 70000 \times \frac{15}{100} \times \frac{40}{100} = 4200$$

$$T = 70000 \times \frac{14}{100} \times \frac{20}{100} = 1960$$

$$= 3780 + 4200 + 1960 = 9940$$

Total number of boys in Q and R together

$$Q = 70000 \times \frac{22}{100} \times \frac{55}{100} = 8470$$

$$R = 70000 \times \frac{31}{100} \times \frac{60}{100} = 13020$$

$$= 8470 + 13020 = 21490$$

$$\text{Required percentage} = 9940 \times \frac{100}{21490} = 46.25\%$$

20

86. (a)

I. $8x^2 + 26x = -15$

$$\Rightarrow 8x^2 + 26x + 15 = 0$$

$$\Rightarrow 8x^2 + 20x + 6x + 15 = 0$$

$$= 4x(2x + 5) + 3(2x + 5)$$

$$(4x + 3)(2x + 5)$$

$$= x = -3/4, -5/2$$

II. $12y^2 - 28y + 8 = 0$

$$\Rightarrow 12y^2 - 24y - 4y + 8 = 0$$

$$12y(y - 2) - 4(y - 2) = 0$$

$$(12y - 4)(y - 2)$$

$$y = 4/12, 2$$

So, $y > x$

87. (e)

I. $14x^2 + 33x = 20$

$$\Rightarrow 14x^2 + 33x - 20 = 0$$

$$\Rightarrow 14x^2 + 40x - 7x - 20 = 0$$

$$2x(7x + 20) - 1(7x + 20)$$

$$(2x - 1)(7x + 20)$$

$$x = 1/2, -20/7$$

II. $22y^2 - 21y = 25$

$$\Rightarrow 22y^2 - 21y + 5 = 0$$

$$\Rightarrow 22y^2 - 11y - 10y + 5 = 0$$

$$11y(2y - 1) - 5(2y - 1) = 0$$

$$(11y - 5)(2y - 1)$$

$$y = 5/11, 1/2$$

So, $x = y$ or no relation

88. (e)

I. $7x^2 + 18x = 9$

$$\Rightarrow 7x^2 + 18x - 9 = 0$$

$$\Rightarrow 7x^2 + 21x - 3x - 9 = 0$$

$$7x(x + 3) - 3(x + 3)$$

$$(7x - 3)(x + 3)$$

$$x = 3/7, -3$$

II. $23y^2 = 49y - 6$

$$\Rightarrow 23y^2 - 49y + 6 = 0$$

$$\Rightarrow 23y^2 - 46y - 3y + 6 = 0$$

$$23y(y - 2) - 3(y - 2) = 0$$

$$(23y - 3)(y - 2)$$

$$y = 3/23, 2$$

So, $x = y$ or no relation

89. (a)

From -1:

Area of square $= (\text{side})^2$

$$4356 = (\text{side})^2$$

$$\text{Side} = 66 \text{ cm}$$

$$\text{Perimeter of square} = 4 \times \text{side} \Rightarrow 4 \times 66 = 264 \text{ cm}$$

According to question,
Diameter of circle = Perimeter of square
 $2r = 264$

$$\text{Circumference of circle} = 2\pi r = 264 \times \frac{22}{7} = 829.7$$

From-2:

Required number of ways

$$\Rightarrow 5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$$

So, Quantity-1 > Quantity-2

90. (b) From-1:

Radius of wheel = 280 cm = 2.8 m

$$\text{Circumference of wheel} = 2 \times \frac{22}{7} \times 2.8 = 17.6 \text{ m}$$

$$\begin{aligned} \text{Distance to be covered in 1 minute} &= \frac{(66 \times 1000)}{60} \\ &= 1100 \text{ m} \end{aligned}$$

$$\text{Number of revolution per minute} = \frac{1100}{17.6} = 62.5$$

From-2:

Area of square = 441 cm²

Perimeter of square = 4 × 21 = 84 cm

Now, this perimeter is the circumference of circle

Circumference of circle = $2\pi r = 84$

$$r = \frac{42}{\pi}$$

$$\text{Area of circle} = \pi r^2 = \pi \left(\frac{42}{\pi} \right)^2$$

$$= \frac{\pi \times 42 \times 42}{\pi^2} = 561.27 \text{ cm}^2$$

So, Quantity-2 > Quantity-1

91. (b) From-1:

Let the sum invested by man in scheme Q = x

So sum invested in scheme P = (33300 - x)

According to question,

$$\Rightarrow \frac{(33300 - x) \times 10 \times 2}{100} = \frac{(x \times 20 \times 2)}{100}$$

$$\Rightarrow \frac{(66600 - 20x)}{100} = \frac{40x}{100}$$

$$60x = 66600$$

$$x = 11100$$

From-2:

Actual price of mobile

$$= \frac{100}{105} \times 25725 = 24500$$

So, Quantity-2 > Quantity-1

92. (b) Let cost price of book = x

Cost price of box = y

According to first condition,

$$\Rightarrow \frac{15y}{100} - \frac{5x}{100} = 49$$

$$\Rightarrow 3y - x = 980 \quad \dots (a)$$

According to second condition,

$$\Rightarrow \frac{5x}{100} + \frac{10y}{100} = 91$$

$$\Rightarrow 5x + 10y = 9100$$

$$\Rightarrow x + 2y = 1820 \quad \dots (b)$$

Solving (a) and (b), we get

$$y = 560$$

93. (b) According to question,

$$11610 = x \left[\left(1 + \frac{15}{100} \right)^2 - 1 \right]$$

$$129x = 11610 \times 400$$

$$x = \frac{(11610 \times 400)}{129} = 36000$$

Now,

Total interest

$$= (36000 + 14000) \times \left[\left(1 + \frac{(15+5)}{100} \right)^2 - 1 \right]$$

$$= 50000 \times \frac{11}{25} = 22000$$

94. (c) The pattern of the series as follows:

$$15 + 73 = 15 + 343 = 358$$

$$358 + 63 = 358 + 216 = 574$$

$$574 + 53 = 574 + 125 = 699$$

$$699 + 43 = 699 + 64 = 763 \text{ Not (756)}$$

$$763 + 33 = 763 + 27 = 790$$

95. (b) The pattern of the series is:

$$3.5 + 11.5 = 15$$

$$15 + 9.5 = 24.5 \text{ Not (24)}$$

$$24.5 + 7.5 = 32$$

$$32 + 5.5 = 37.5$$

$$37.5 + 3.5 = 41$$

$$41 + 1.5 = 42.5$$

96. (c) The pattern of the series is:

$$18 \times 0.5 + 1 = 10$$

$$10 \times 1 + 1.5 = 11.5$$

$$11.5 \times 1.5 + 2 = 19.25 \text{ Not (19)}$$

$$19.25 \times 2 + 2.5 = 41$$

$$41 \times 2.5 + 3 = 105.5$$

97. (d) 17 + 6 = 23

$$23 + 12 = 35$$

$$35 + 24 = 59$$

$$59 + 48 = 107$$

$$107 + 96 = 203 \text{ Not (204)}$$

98. (d) $\begin{array}{cccccc} 3601 & 3602 & 1803 & 604 & 155 & 36 & 12 \\ \hline & \div 1+1 & \div 2+2 & \div 3+3 & \div 4+4 & \div 5+5 & \div 6+6 \end{array}$

$$155 \text{ is written in place of } 156$$

Sol. (99-103)

Subjects	Male	Female	Total
Science	480	960	1440
Hindi	180	225	405
English	240	15	255
History	300	400	700
Total	1200	1600	2800

99. (e) Total number of boys are taking English classes = 240
Total number of boys are taking Science classes = 480
Required ratio = 240 : 480 = 1:2

100. (c) The number of girls taking History classes = 400
Total number of students in the college = 2800

$$\text{Required percentage} = \frac{(400 \times 100)}{2800} = 14.28\%$$

101. (c) The number of boys taking English classes = 240
Total number of girls taking science classes = 960

$$\text{Required percentage} = \frac{(240 \times 100)}{960} = 25\%$$

102. (d) Total number of students taking Hindi classes = 180 + 225 = 405

103. (b) Total number of of girls taking English classes = 15

104. (b) Required ratio

$$\frac{\frac{13}{20} \times 48 + \frac{18}{35} \times 42}{\left(\frac{7}{20} \times 48 + \frac{17}{35} \times 42\right) + 20}$$

$$= \frac{\frac{156}{5} + \frac{108}{5}}{\frac{84}{5} + \frac{102}{5} + 20} = \frac{264}{286}$$

$$= 12 : 13$$

105. (c) Let time taken by Pankaj during walking be t hours

$$\therefore 5t + 25[10 - t] = 17 \times 10$$

$$\Rightarrow 20t = 80$$

$$\Rightarrow t = 4 \text{ hours}$$

$$\therefore \text{Part of journey travelled by auto} = 25 \times 6 = 150 \text{ km}$$

106. (d) Ratio of efficiencies of Sanjeev and Rohit = 7 : 5

$$\text{Let efficiency of Sanjeev} = 7a$$

$$\text{and that of Rohit} = 5a$$

$$\text{Let efficiency of Sanjeev} = 7a$$

$$\therefore \text{ATQ, Efficiency of Harsha}$$

$$= \frac{7a + 5a}{2} = 6a$$

$$\therefore \text{Ratio of efficiency of Rohit, Harsha, Sanjeev} = 5 : 6 : 7$$

$$\therefore \text{No. of pages typed by Rohit per hour}$$

$$= \frac{5}{18} \times \frac{216}{4} = 15$$

$$\text{by Harsha} = \frac{6}{18} \times \frac{216}{4} = 18 \text{ pages}$$

$$\text{by Sanjeev} = \frac{7}{18} \times \frac{216}{4} = 21 \text{ pages}$$

107. (b) Let plan was to drill x metre per day and total time (days) to drill the required depth according to plan was t days.

$$\therefore xt = 270 \quad \dots (i)$$

and A/c,

$$3x + (t - 4)(x + 8) = 280$$

$$\therefore 8t - x = 42 \quad \dots (ii)$$

From (i) and (ii)

$$\text{Put } t = \frac{270}{x} \text{ in (ii)}$$

$$\frac{2160}{x} - x = 42$$

$$\Rightarrow x^2 + 42x - 2160 = 0$$

$$\Rightarrow (x - 30)(x + 72) = 0$$

$$\Rightarrow x = 30 \text{ metres}$$

108. (c) Let total number of voters = x

$$\text{Voters who cast their votes} = 0.75x$$

$$\text{Valid votes polled} = 0.98 \times 0.75x$$

$$\text{Valid votes polled for a candidate}$$

$$9261 = 0.98 \times 0.75 \times 0.75 \times x$$

$$x = 16800$$

109. (c) Let his investment in 1995 was ₹ $100x$

$$\therefore \text{Income in 1995} = 100x + 20x = 120x$$

$$\text{Investment in 1996} = (100x - 5000)$$

$$\therefore \text{Income in 1996} = (100x - 5000) \times \frac{126}{100}$$

ATQ,

$$120x = (100x - 5000) \times \frac{126}{100}$$

$$\Rightarrow x = 1,050$$

$$\therefore \text{Invest in 1995} = ₹ 1,05,000$$

110. (c) Let investment made by Rashmi in scheme A = ₹ x

$$\therefore \text{Investment made by her in scheme B} = (4200 - x)$$

ATQ,

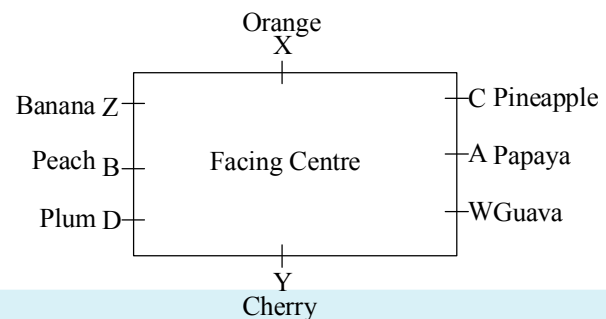
$$= \frac{x \times 22 \times 4}{100} (4200 - x) \left[\left(1 + \frac{10}{100}\right)^2 - 1 \right] = 1516$$

$$\Rightarrow \frac{88x}{100} - \frac{(4200 - x) \times 21}{100} = 1516$$

$$\Rightarrow 109x - 88,200 = 1.51,600$$

$$\Rightarrow x = 2200$$

Sol (111-115):

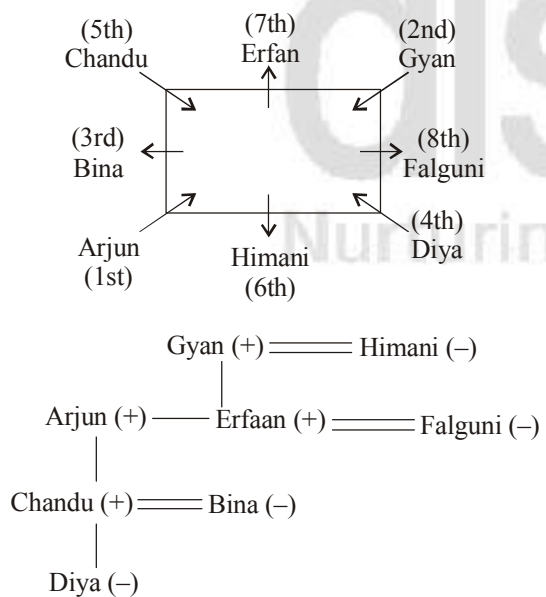


111. (b) C likes Pineapple.
 112. (c) C is sitting diagonally opposite to one who likes plum fruit.
 113. (a) DZB is sitting on the same side of the table.
 114. (d) The one who likes cherry fruit is sitting on the longer side of the table.
 115. (b) D - Plum is the correct combination.

Sol (116-120):

116. (b) Only conclusion II follows.
 Conclusions:
 I. $E > C < D = F$ So, $F < E$ (False)
 II. $B < C < D = F$ So, $F > B$ (True)
 117. (e) Both conclusions I and II follow.
 Conclusions:
 I. $O < M < P < A$ So, $O < A$ (True)
 II. $H \geq M > O$ So, $O < H$ (True)
 118. (c) Either conclusion I or II follows.
 Conclusions:
 $D < M < C = Z > N$
 I. $N < D$ (False)
 (Both have all three possible sign of inequality)
 II. $N \geq D$ (False)
 119. (c) Neither conclusion I nor II follows.
 Conclusions:
 $T < R > P$ So, $P > T$ (False)
 $P < R \geq S$ So, $S \leq P$ (False)
 120. (b) Only conclusion II follows.
 Conclusions:
 $A \geq J < P$ So, $A > P$ (False)
 $P = X > M > R$ So, $R < P$ (True)

Sol (121-125):



121. (b) She is the Aunt of Chandu
 122. (a) The one who is father in law of Falguni.
 123. (c) Bina, Erfan are immediate neighbour of the one who stays on 5th floor.

124. (e) Arjun sits exactly between Himani and Bina when counted in anticlockwise direction with respect to Bina.
 125. (e) Bina is an immediate neighbour of the one who stays on 1st floor.

Sol (126-130):

126. (e) Only conclusion I and II follow.

 127. (a) Only conclusion I follows.

 128. (c) Either conclusion I or II follows.

 129. (b) Only conclusion II follows.

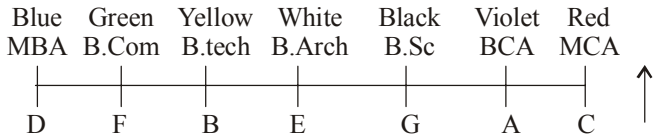
 130. (e) Both conclusions I and II follow.

Sol (131-135):

Floors	Friends	Months
7	Riya	February
6	Rohin	April
5	Rahul	August
4	Sejal	June
3	Vijay	July
2	Kanwar	September
1	Jeevan	October

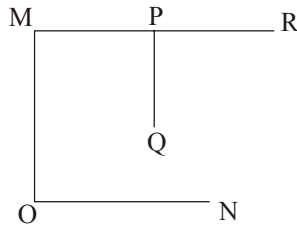
131. (d) The youngest Friend lives on first floor.
 132. (b) Four floors are below the floor on which Rahul lives.
 133. (d) Rohin lives on the second floor.
 134. (b) Rahul was born in August.
 135. (e) None of these.

Sol (136-140):



136. (a) D studies in MBA class.
 137. (b) B studies in B.tech class.
 138. (a) Two students sit left to the one who likes Yellow.
 139. (c) C studies in MCA class.
 140. (e) No one sit between the one who studies in B.arch class and the one who likes Black.

Sol (141-142):



141. (d) Building Q is in Southwest direction with respect to building R.
 142. (c) Building R is in Northeast direction with respect to building N.

Sol (143-147):

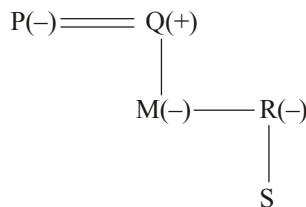
The machines arrange the given input in such a way that, Odd numbers are arranged in descending order in each step. After which even numbers also arranged in descending order. If 1st letter of word is vowel then it is arranged in alphabetical order in each step. In the next step, if the 1st letter of word is consonant, it is also arranged in alphabetical order.

Input: Table 37 rose 88 65 olive apple van 8

- Step I: 65 Table 37 rose 88 olive apple van 8
 Step II: 65 37 Table rose 88 olive apple van 8
 Step III: 65 37 88 Table rose olive apple van 8
 Step IV: 65 37 88 8 Table rose olive apple van
 Step V: 65 37 88 8 apple Table rose olive van
 Step VI: 65 37 88 8 apple olive Table rose van
 Step VII: 65 37 88 8 apple olive rose Table van

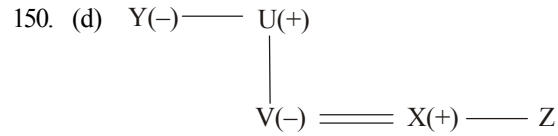
143. (c)
 144. (c)
 145. (d)
 146. (c) Apple is at 5th position from left end of Step V.
 147. (d)

Sol (148-150):



148. (a) S is grand - child of P.

149. (e) None of these



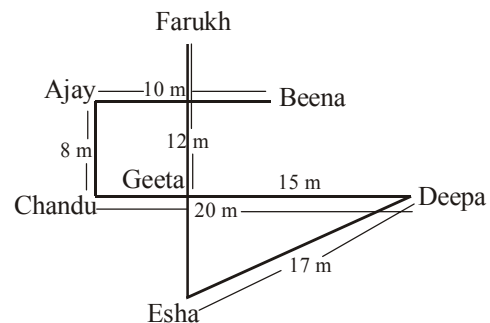
- Y is aunt of Z.
 151. (b) First one can be directly concluded from the statement. Second one can be inferred from the statement as the main motive of Reliance Jio is the enhancement in the field of mobile infrastructure which is there in the statement in hide and seek manner.
 152. (b) Only II and III assumptions are implicit because these two are relevant with situation while I is not relevant for the statement.
 153. (e) All the statements are probable causes of drop in sales of motor bike during the past six months.
 154. (c) Chocolates have three types of fats, one out of which increase level of cholesterol thus this statement weakens the argument because it showing negative quality of chocolates.
 155. (c) Clearly, a company would highlight only that feature in its advertisement which people desire for and which it can make possible. So, both I and III are implicit. Nothing can be deduced about the growth of IT industry. So, II is not implicit.

Sol (156-160):

Name	Codes
Abhi	ka
Ajay	ro
Amit	di
Ankit	ve
Akash	se
Aditya	la
Aditi	ba
Amul	yo

156. (c) 'la' is the code for 'Aditya' ...
 157. (a) 'ro' stands for Ajay.
 158. (e) 'ba fe ve' is may be code for 'Ankit Aditi Adarsh'
 159. (b) 'ka' is the code for 'Abhi'
 160. (c) 'yo' is the code for 'Amul'

Sol (161-163):



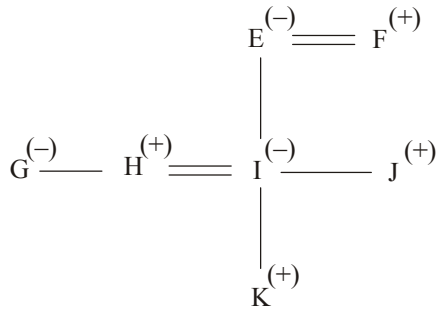
161. (d) Shortest distance between Geeta and Esha is:

$$\sqrt{17^2 - 15^2} = \sqrt{289 - 225} = \sqrt{64} = 8 \text{ m}$$



162. (b) Deepa is in south east direction with respect to Beena.
 163. (a) Ajay is in North west direction with respect to Esha.

Sol (164-165):



164. (a) F is father of I.
 165. (b) H is son-in-law of E.
Sol (166-167):
 166. (d) Except V2#, 3rd term is immediate neighbor of 1st and 2nd term.
 167. (c) J \$ V, Q # 2
 168. (b) Clearly, it is the advertisement which makes the customer aware of the qualities of the product and encourages him to buy. So, argument I is valid. But at the same time, advertising nowadays has become a costly sometimes meaningless and the expenses on it hike the price of the product. So, argument II also holds strong.
 169. (c) Clearly, either the traffic signals should be made to function properly or traffic personnel should be deployed to guide public in the right way. So, either I or II follows.
 170. (b) The statement conclude that people cannot follow any particular trend for long and seek change quite necessary. So, only II follows.
 171. (c) Both (I) and (II) are true as per the passage.
 172. (b) The given statement is negative but it should be positive as debris create severe particulate pollution in cities where it is dumped.
 173. (e) all the above
 174. (c) the passage is about the adverse effects of pollution components: PM 2.5 and PM 10 on health and how to control them.
 175. (c) Caveat: a warning or proviso of specific stipulations, conditions, or limitations.
 176. (a) penetrate means to go inside: pierce
 Only option (a) is opposite in meaning remaining options are similar in meaning to the given word.
 177. (e) all options can be seen in the first paragraph
 178. (c) only options (I) and (III) are responsible
 179. (e) all the above options are true as per the passage
 180. (a) many of the good ideas are moving out as they are not able to afford the research practices in their countries.
 181. (c) the word 'cadre' means a group of professionals

182. (e) the word 'abjure' means solemnly renounce (a belief, cause, or claim). Hence it is the opposite in meaning to the given word, remaining options are similar in meaning to the given word.
 183. (d) the word 'effecting' is not correct here contextually. It should be replaced with the word 'affecting' to make the sentence correct.
 184. (a) the word 'committed' is not correctly spelt. The correct spelling is 'committed'.
 185. (c) 'Waste' should be replaced with 'wasted'.
 186. (d) 'assumes' should be replaced with 'assume'
 Because assumes is singular verb but subject is plural i.e. honesty and integrity that's why there should be plural verb i.e. assume
 187. (c) the given blank should be replaced with 'Had the room been brighter'.
 188. (b) The sentence should be read as: Not only do they need clothing, but they are also short of food.
 When 'not only' comes at the beginning of the sentence we use an inverted word order.
 189. (b) rained all in
 190. (a) the given sentence is an imperative sentence, hence 'suggested me to take' is the correct option to replace the underlined part.
 191. (b) 'No denying the fact that' makes the sentence correct contextually.
 192. (b) the given blank should be filled with past participle form of the verb as the sentence requires passive form. Hence, option (b) involved is the right option.
 193. (d) 'for' is used to show purpose
 194. (c) the use of preposition 'among' before the given blank shows that many regions are being compared. Hence, 'the least' is the correct option.
 195. (a) waterways
 If there if use of 'one of' the noun following 'one of' remains in plural form. Hence, waterways is the right option.
 196. (c) progress
 The blank should be filled with a contextually positive word hence, decline and problem eliminate here. 'progresses' is not correct fit as the blank is to be filled with a noun and not verb also the word progress is an uncountable noun.
 Evaluation is not correct here contextually. Hence, progress is the right word.
 197. (b) established
 The given blank should be filled with passive structure. Hence, 'established is the right option.
 198. (e) all the three options (A),(B) and (C) are correctly matched.
 199. (c) only option (C)-(E) is correctly matched.
 200. (a) only option (A)-(E) is correctly matched.