

1. What will be the compound interest on ₹ 4,000.00 for 2 years at the rate of 5% per annum ?

- (A) ₹ 410 (B) ₹ 420
(C) ₹ 421 (D) ₹ 427

2. The sum and product of two numbers is 11 and 18 respectively. What will be the sum of their reciprocals ?

- (A) $\frac{10}{9}$ (B) $\frac{11}{18}$
(C) $\frac{12}{15}$ (D) $\frac{18}{11}$

3. If $x = \frac{A}{A-1}$ and $y = \frac{1}{A-1}$, which of the following is true, if $A > 1$?

- (A) x is greater than y
(B) x is equal to y
(C) x is less than y
(D) None of the above

4. In the following figure—



- I. Employed in public sector
II. Employed in private other than corporate sector
III. Employed in corporate sector
IV. Self employed
V. Unemployed

What is the percentage of the self employed among the employed persons ?

- (A) $\frac{100}{19}$ (B) $\frac{100}{67}$
(C) $\frac{96}{5}$ (D) 18

5. If the straight lines $x + ay = 1$ and $bx - y = 2$ intersect at the point (1, 1), what will be the values of a and b ?

- (A) 0 and 3 (B) 1 and -1
(C) 0 and 1 (D) 1 and 3

6. What is the number, one third of which is greater than one fifth of the succeeding number by one ?

- (A) 6 (B) 7
(C) 8 (D) 9

7. What is missing number in the series ?

1, 5, 11, 19, 29,, 55 ?

- (A) 39 (B) 41
(C) 45 (D) 47

8. What is the missing number in the series ?

21, 32, 45, 60,, 96, 117 ?

- (A) 75 (B) 76
(C) 77 (D) 78

9. What is the value of

$$\frac{\sqrt{7}-2}{\sqrt{7}+2} + \frac{\sqrt{7}+2}{\sqrt{7}-2} ?$$

- (A) 2 (B) 45
(C) $2\sqrt{7} + 4$ (D) $\frac{22}{3}$

10. If 10% of 20% of Z is 50, what will be the value of Z ?

- (A) 150 (B) $\frac{500}{3}$
(C) 250 (D) 2500

11. A solid iron cylinder of height 8 cm and base radius 2 cm is melted and converted into three solid equal size spheres. What will be the surface area of each sphere ?

- (A) 2π (B) 4π
(C) 8π (D) 16π

12. If $\log_{16} 64 = 2x + 1$, what is the value of x ?

- (A) 0 (B) $\frac{1}{4}$
(C) $\frac{1}{2}$ (D) 1

13. A 6 cm cube is cut into 1 cm cubes. What will be the total surface area of the small cubes ?

- (A) 36 (B) 216
(C) 864 (D) 1296

14. If $x + \frac{1}{x} = 5$, what will be the value of $x^2 + \frac{1}{x^2}$?

- (A) 20 (B) 23
(C) 25 (D) 27

15. If in a class of 80 students, 60% are boys, 40% have a first class degree and 50% boys have first class degree, what will be the number of girls having first class degree ?

- (A) 6 (B) 8
(C) 10 (D) -12

16. If the sides of a right angle triangle are a , $a + b$ and $a + 2b$, ($a, b > 0$), what will be the value of $a : b$?

- (A) 1 : 3 (B) 1 : 4
(C) 2 : 1 (D) 3 : 1

17. If PLAY is coded as 8123 and RHYME is coded as 49367, how would MALE be coded ?

- (A) 6217 (B) 6198
(C) 6395 (D) 6285

18. In India, which one among the following formulates the fiscal policy ?

- (A) Planning Commission
(B) Finance Commission
(C) Ministry of Finance
(D) Reserve Bank of India

19. Who among the following has authored the book "Indian Economy : A Gandhian Blue Print" ?

- (A) Acharya Vinoba Bhave
(B) Morarji Desai
(C) Jai Prakash Narayan
(D) Charan Singh

20. India has signed a Free Trade in Goods Agreement (2011) with—

- (A) ASEAN
(B) SAARC
(C) NAFTA
(D) None of the above

21. Who among the following had propounded the concept of 'Trusteeship' ?
 (A) M. N. Roy
 (B) Aurobindo Ghosh
 (C) Mahatma Gandhi
 (D) G. K. Gokhale
22. What has been the approximate share of renewable energy out of the total generation capacity in the energy sector of India as on Dec. 2011 ?
 (A) 11% (B) 8%
 (C) 5% (D) 2%
23. Which one of the following is the period of the 12th Five Year Plan ?
 (A) 2011–2016
 (B) 2012–2017
 (C) 2013–2018
 (D) 2010–2015
24. Nirmal Bharat Abhiyan Yojana is associated with—
 (A) Development of villages
 (B) Community toilets in slum areas
 (C) Construction of houses for low income groups
 (D) None of the above
25. Where has the Indian Diamond Institute (IDI) been established ?
 (A) New Delhi
 (B) Mumbai
 (C) Surat
 (D) Jaipur
26. As per the provisional figures of Census 2011, the literacy rate in India is—
 (A) 82.14% (B) 74.04%
 (C) 65.46% (D) 75.14%
27. According to the provisional figures of 2011 Census, the decadal growth rate of population during 2001-2011 in India has been—
 (A) 17.19% (B) 18.12%
 (C) 17.64% (D) 18.25%
28. According to the provisional figures of Census 2011, what percentage of population is below the age of 35 years in India ?
 (A) 45% (B) 55%
 (C) 65% (D) 75%
29. The share of Uttar Pradesh in India's total foodgrains production during 2009–2012 has been nearly
 (A) Half $\left(\frac{1}{2}\right)$
 (B) One-third $\left(\frac{1}{3}\right)$
 (C) One-fourth $\left(\frac{1}{4}\right)$
 (D) One-fifth $\left(\frac{1}{5}\right)$
30. Which one among the following is **not** a cash crop ?
 (A) Tobacco (B) Cotton
 (C) Soyabean (D) Rubber
31. Which of the following banks operates mainly in relation to small industries ?
 (A) SIDBI (B) IDBI
 (C) ICICI (D) NABARD
32. According to the provisional figures of Census 2011 of India, the density of population is the highest in which of the following cities of U.P. ?
 (A) Kanpur Nagar
 (B) Lucknow
 (C) Moradabad
 (D) Ghaziabad
33. 'Sankalp' project is associated with the eradication of—
 (A) AIDS/HIV
 (B) Illiteracy
 (C) Polio
 (D) Unemployment
34. Industrial Finance Corporation of India works as—
 (A) A commercial bank
 (B) A development bank
 (C) An industrial bank
 (D) None of the above
35. In which of the following financial years the devaluation of rupee in India took place twice ?
 (A) 1966-67 (B) 1991-92
 (C) 1990-91 (D) 1989-90
36. Since April 2011 the SBI's Chairman has been—
 (A) Pratip Chaudhuri
 (B) D. Suba Rao
 (C) Amiya Bagachi
 (D) Rao Birendra Singh
37. Fill in the blank with correct choice—
 The recorded forest area of U.P. in 2011 was around of its total area.
 (A) 3% (B) 5%
 (C) 7% (D) 9%
38. Which one of the following constitutes the single largest export item from India ?
 (A) Gems and Jewellery
 (B) Readymade garments
 (C) Leather and footwear
 (D) Chemicals
39. The World Population Day commemorates the day on which the estimated world population become five billion. That day was—
 (A) July 11, 1987
 (B) September 11, 1994
 (C) November 11, 1995
 (D) July 11, 1997
40. As on March 2012, the number of Urban Cooperative Banks in India was—
 (A) 65 (B) 164
 (C) 1645 (D) 6540
41. The percentage of rural branches of all kinds of private, public sector commercial banks including Regional Rural Banks as on 30/06/2012, according to R.B.I. was approximately—
 (A) 17% (B) 27%
 (C) 37% (D) 47%
42. The Energy Conservation Act became effective in—
 (A) 2001 (B) 2002
 (C) 2006 (D) 2011
43. Which of the following States has the largest no. of approved as well as operational Special Economic Zones as on June 2012 ?
 (A) Uttar Pradesh
 (B) Andhra Pradesh
 (C) Tamil Nadu
 (D) Maharashtra
44. Which of the following groups of goods is **not** included in FMCG (Fast Moving Consumer Goods) ?
 (A) Automobile (Cars and Motor Cycle)

- (B) Toiletries (Shampoo and Soap)
 (C) Dairy Products (Milk and Cheese)
 (D) Bakery Products (Biscuits and Breads)
45. Bhakra-Nangal is a joint project of—
 (A) Haryana-Punjab and Rajasthan
 (B) Haryana-Punjab and Delhi
 (C) Himachal Pradesh-Haryana and Punjab
 (D) Punjab-Delhi and Rajasthan
46. Who is the author of the book 'Wealth of Nations' ?
 (A) Adam Smith
 (B) David Ricardo
 (C) J. M. Keynes
 (D) Gunnar Myrdal
47. The National Income of India is estimated by—
 (A) National Sample Survey Organization
 (B) Ministry of Finance
 (C) Reserve Bank of India
 (D) Central Statistical Organization
48. Which one of the following satellites was successfully launched by India on September 29, 2012 ?
 (A) GSAT-6 (B) GSAT-9
 (C) GSAT-10 (D) GSAT-12
49. Match List-I with List-II and select the correct answer with the help of code given below the lists—
- | List-I | | List-II | |
|---------------|--|-----------|--|
| (a) Audiogram | | 1. Heart | |
| (b) E.C.G. | | 2. Brain | |
| (c) E.E.G. | | 3. Ear | |
| (d) Mammogram | | 4. Breast | |
- Codes :**
- | (a) | (b) | (c) | (d) |
|-------|-----|-----|-----|
| (A) 1 | 2 | 3 | 4 |
| (B) 2 | 1 | 3 | 4 |
| (C) 4 | 3 | 2 | 1 |
| (D) 3 | 1 | 2 | 4 |
50. An iron needle floats on the surface of water due to—
 (A) Upthrust of water
 (B) Surface tension
 (C) Viscosity
 (D) Gravitational force
51. Trans fat is generally considered to be bad for human health because it lowers the level of—
 (A) HDL
 (B) LDL
 (C) Triglycerides
 (D) Insulin
52. There is no atmosphere on the moon because—
 (A) It is near to the earth
 (B) It receives light from the sun
 (C) It revolves around the earth
 (D) Escape velocity of gas molecules on it is less than the root mean square velocity
53. The best conductor of electricity amongst the following is—
 (A) Aluminium
 (B) Copper
 (C) Silver
 (D) Gold
54. Dynamo converts—
 (A) High voltage into low voltage
 (B) Electrical energy into mechanical energy
 (C) Mechanical energy into electrical energy
 (D) Low voltage into high voltage
55. If the gravitational force of the earth suddenly disappears, which are of the following will be the correct consequence ?
 (A) The weight of an object will become zero but the mass will remain the same
 (B) The mass of the object will become zero but the weight will remain the same
 (C) Both the mass and the weight of the object will become zero
 (D) The mass of the object will increase
56. What is the role of anti-oxidants in human system ?
 (A) They promote vitamin synthesis
 (B) They prevent excessive oxidation of carbohydrates, protein and fat
 (C) They protect cells against the effects of free-radicals
 (D) They activate certain genes which delay the aging process
57. Which one of the following does not increase the amount of carbon-dioxide in carbon cycle on earth ?
 (A) Respiration
 (B) Photosynthesis
 (C) Decay of organic matter
 (D) Volcanic action
58. James D. Watson and Francis Crick are associated with the discovery of—
 (A) Vaccine
 (B) Structure of DNA
 (C) Anti-malarial drugs
 (D) Penicilline
59. Which one of the following is used as rat poison ?
 (A) Zinc sulphide
 (B) Lead sulphide
 (C) Calcium phosphate
 (D) Zinc phosphide
60. Which one of the following acids is present in sour milk products ?
 (A) Acetic Acid
 (B) Butyric Acid
 (C) Tartaric Acid
 (D) Lactic Acid
61. Which one of the following colours is seen in the middle of a rainbow ?
 (A) Blue (B) Green
 (C) Red (D) Yellow
62. Which planet is nearest from the Earth ?
 (A) Venus (B) Mercury
 (C) Mars (D) Jupiter
63. Match List-I with List-II and select the correct answer from the codes given below the lists—
- | List-I | | List-II | |
|-----------------|--|-------------------------|--|
| (a) Anemometer | | 1. Earthquakes | |
| (b) Seismograph | | 2. Atmospheric pressure | |
| (c) Barograph | | 3. Wind velocity | |
| (d) Hygrometer | | 4. Humidity | |
- Codes :**
- | (a) | (b) | (c) | (d) |
|-------|-----|-----|-----|
| (A) 1 | 2 | 3 | 4 |
| (B) 4 | 1 | 2 | 3 |
| (C) 4 | 1 | 3 | 2 |
| (D) 3 | 1 | 2 | 4 |

64. In a computer, the permanent memory is called—
 (A) RAM (B) ROM
 (C) CPU (D) CDROM
65. A cut diamond shines brilliantly due to—
 (A) Its molecular structure
 (B) Absorption of light
 (C) Total internal reflection
 (D) Some other inherent property
66. Which of the following micro organisms are used as biofertilizer?
 (A) Cyanobacteria
 (B) Protozoa
 (C) Virus
 (D) None of the above
67. Which of the following is a transgenic plant?
 (A) Buck wheat
 (B) Macaroni wheat
 (C) Golden rice
 (D) Triticale
68. Which of the living tissues acts as the carrier of organic nutrients in higher plants?
 (A) Xylem (B) Phloem
 (C) Cortex (D) Epidermis
69. Which one of the following is **not** a greenhouse gas?
 (A) Methane
 (B) Nitrous oxide
 (C) Chlorofluoro carbon
 (D) Hydrogen
70. Noscapine is obtained from—
 (A) Poppy
 (B) Basil
 (C) Eucalyptus
 (D) Ephedra
71. Ozone layer occurs mainly in—
 (A) Troposphere
 (B) Mesosphere
 (C) Stratosphere
 (D) Exosphere
72. Which one of the following vitamins is responsible for blood-clotting?
 (A) C (B) K
 (C) E (D) D
73. Which one of the following alloys is called an amalgam?
 (A) Zinc – Copper
 (B) Copper – Tin
 (C) Mercury – Zinc
 (D) Lead – Zinc
74. Which one of the following radio-elements is used to measure the speed of the blood flow in human body?
 (A) Radio – Phosphorus
 (B) Radio – Iodine
 (C) Radio – Iron
 (D) Radio – Sodium
75. Which one of the following acids is used in the manufacturing of baking powder?
 (A) Oxalic acid
 (B) Lactic acid
 (C) Tartaric acid
 (D) Benzoic acid
76. The radio isotope used to control blood cancer (leukaemia) is—
 (A) Iodin-131
 (B) Sodium-24
 (C) Phosphorus-32
 (D) Cobalt-60
77. Which one of the following organic substances is most abundantly found in nature?
 (A) Glucose (B) Cellulose
 (C) Fructose (D) Sucrose
78. Who amongst the following was **not** a member of the Drafting Committee of the Constitution?
 (A) Mohammad Sadullah
 (B) K. M. Munshi
 (C) A. K. Ayyar
 (D) Jawaharlal Nehru
79. Which of the following Articles of the Indian Constitution empowers the Parliament to legislate with respect to any matter in the State List?
 (A) Article-115
 (B) Article-116
 (C) Article-226
 (D) Article-249
80. Indian Constitution is—
 (A) Rigid
 (B) Flexible
 (C) Neither rigid nor flexible
 (D) Partly rigid and partly flexible
81. Which one of the following articles of the Indian Constitution provides for All-India Services?
 (A) Article-310
 (B) Article-311
 (C) Article-312
 (D) Article-313
82. Fundamental duties of Indian citizens are enumerated in—
 (A) Part I of the Constitution
 (B) Part IV A of the Constitution
 (C) Part II of the Constitution
 (D) Part IV of the Constitution
83. Establishment of a three-tier Panchayati Raj system was first recommended by—
 (A) Ashok Mehta Committee
 (B) L. M. Singhvi Committee
 (C) Balwantrai Mehta Committee
 (D) Sarkaria Commission
84. The system of judicial review exists in—
 (A) India only
 (B) U.S.A. only
 (C) India and U.S.A.
 (D) U.K. only
85. The Rajya Sabha can be dissolved by—
 (A) The President
 (B) The Prime Minister
 (C) The Council of Ministers
 (D) None of the above
86. The British Parliament passed the Indian Independence Act in—
 (A) January 1947
 (B) June 1947
 (C) July 1947
 (D) August 1947
87. The idea of Concurrent list in the Indian Constitution has been borrowed from—
 (A) U.S.A. (B) Switzerland
 (C) Australia (D) U.S.S.R.
88. Which article under the fundamental rights is directly related to the employment of children?
 (A) Article-19
 (B) Article-17
 (C) Article-23
 (D) Article-24

89. Under the Indian Constitution who amongst the following is considered to be the guardian of the fundamental rights ?
 (A) Parliament
 (B) President
 (C) Judiciary
 (D) Prime Minister
90. The Indian Constitution has to be divided into—
 (A) 16 Parts (B) 22 Parts
 (C) 24 Parts (D) 25 Parts
91. Which article of the Indian Constitution empowers the President to consult the Supreme Court ?
 (A) Article 129
 (B) Article 132
 (C) Article 143
 (D) Article 32
92. In which of the following cases, the Supreme Court of India enunciated the 'doctrine of basic structure' ?
 (A) Golaknath
 (B) A. K. Gopalan
 (C) Keshwanand Bharti
 (D) Menaka Gandhi
93. The minimum number of Supreme Court Judges who can hear a case involving a substantial question of law as to the Interpretation of the Constitution is—
 (A) Five (B) Seven
 (C) Eleven (D) Thirteen
94. Which part and chapter of the Indian Constitution deal with the legislative relations between the Union and the States ?
 (A) Part XI and Chapter I
 (B) Part XI and Chapter II
 (C) Part XII and Chapter I
 (D) Part XII and Chapter II
95. Which one of the following statements regarding Panchayati Raj is **not** correct ?
 (A) Panchayat system has been an integral part of Indian village life through the ages
 (B) 73rd Amendment came into effect on 15th August, 1993
 (C) It is a three-tier organically linked structure
 (D) Art. 243–G of the Indian Constitution adds to its importance
96. Which of the following are Constitutional authorities ?
 1. State Election Commission
 2. Finance Commission
 3. Chief-Electoral Officer
 4. Panchayats
 Select the correct answer from the codes given below—
Codes :
 (A) 1 and 2 only
 (B) 1, 2 and 3 only
 (C) 1, 2 and 4 only
 (D) All the four
97. Consider the following statements—
 1. India is a democratic polity.
 2. India is a sovereign state.
 3. India has a democratic society.
 4. India is a welfare state.
 Which of the above statements are true ?
 (A) 1 and 2 only
 (B) 1, 2 and 3 only
 (C) 2, 3 and 4 only
 (D) 1, 2, 3 and 4
98. Which of the following are the members of the electoral college for electing the President of India ? Select the correct answer from the codes given below—
 1. All the members of the two Houses of Parliament.
 2. All the elected members of the State Legislative Assemblies.
 3. All the elected members of the U.T. Assemblies.
 4. All the Governors and Lt. Governors
Codes :
 (A) 1 and 2 only
 (B) 2 and 3 only
 (C) 1, 2 and 3 only
 (D) 1, 2, 3 and 4
99. Given below are two statements—
Assertion (A) : The Union Executive is headed by the President of India.
Reason (R) : There are no limitations on the powers of the President.
 In the context of the above which are of the following is correct ?
 (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
 (B) Both (A) and (R) are true, but (R) is not the correct explanation of (A).
 (C) (A) is true, but (R) is false.
 (D) (A) is false, but (R) is true.
100. The Council of Ministers is collectively responsible—
 1. To the House of the People
 2. Under a Constitutional obligation
 3. As per Article 75 (3)
 4. As per Article 74 (3)
 Which of the above statements are correct ?
 (A) 1 and 2 only
 (B) 1, 2 and 3 only
 (C) 1, 3 and 4 only
 (D) 1, 2, 3 and 4
101. Who has ridiculed Congress as representing only a microscopic minority of the people ?
 (A) Lord Ripon
 (B) Lord Dufferin
 (C) Lord Curzon
 (D) Lord Wellesley
102. The provision for the establishment of All India Federation was included in the—
 (A) Govt. of India Act, 1935
 (B) August offer 1940
 (C) Govt. of India Act, 1919
 (D) Cabinet Mission Proposal 1946
103. The Constitution of India, was enacted on 26 November, 1949 by the—
 (A) Constituent Assembly
 (B) Governor General of India
 (C) Parliament of India
 (D) British Parliament
104. Which one of the following is included in the Directive Principles of State Policy ?
 (A) Protection in respect of conviction for offences
 (B) Protection of life and personal liberty
 (C) Protection of interest of minorities
 (D) Equal pay for equal work for both men and women

105. The Vice-President of India is elected by the members of an electoral college comprising—
 (A) Only elected members of both Houses of Parliament
 (B) All the members of both Houses of Parliament
 (C) Only elected members of Rajya Sabha and State Assemblies
 (D) Only elected members of State Assemblies

106. On which of the following a Parliamentary Committee has not been set up?
 (A) Public Undertakings
 (B) Government Assurances
 (C) Estimates
 (D) Welfare of Minorities

107. Is a State of the Indian Union empowered under the Constitution to take foreign loans directly?
 (A) Yes
 (B) No
 (C) Yes, but from international organizations only
 (D) Yes, but only with the permission of the Reserve Bank of India

108. How is the following frequency distribution classified?

Classes	Frequencies
0 – 15	17
0 – 10	8
0 – 5	3

- (A) Cumulative distribution in less than type
 (B) Cumulative distribution in more than type
 (C) Discrete frequency distribution
 (D) Cumulative frequency distribution
109. Which one of the following is a one dimensional figure?
 (A) Bar diagram
 (B) Pie-chart
 (C) Cylinder
 (D) Graph

110. Types of ogive curves are—
 (A) More than type distribution
 (B) Less than type distribution
 (C) Both (A) and (B)
 (D) None of (A) and (B)

111. With the help of ogive curves, one can determine—
 (A) Median
 (B) Deciles
 (C) Percentile
 (D) All the above

112. Mean is a measure of—
 (A) Dispersion
 (B) Correlation
 (C) Central value
 (D) None of the above

113. Which of the following is a measure of central tendency?
 (A) Standard Deviation
 (B) Mean Deviation
 (C) Quartile Deviation
 (D) Median

114. x : 12 17 24 36 45
 f : 2 5 3 8 9
 is classified as—

- (A) Continuous distribution
 (B) Discrete distribution
 (C) Cumulative frequency distribution
 (D) None of the above

115. The median of eleven observations is 45. If one of the observations 25 is replaced by 36, the median of the new set of observations will be increased by—
 (A) 0 (B) 1
 (C) 5 (D) 11

116. If the mean height of boys in a class is 60 cm, the mean height of girls is 55 cm and the mean height of all the students in the class is 57 cm, what will be the ratio of the number of boys to the number of girls?
 (A) 1 : 1 (B) 1 : 2
 (C) 2 : 3 (D) 3 : 2

117. The following table gives the income and expenditure of a company (in ₹ lakh) for five years—

Year	Income	Expenditure
2007	2000	1500
2008	2050	1500
2009	2170	1600
2010	2200	1600
2011	2250	1650

- In which year did the company register highest percentage increase in profit over the previous year's profit?
 (A) 2008 (B) 2009
 (C) 2010 (D) 2011

118. If a constant value 10 is subtracted from each observation of a set, the mean of the set will—
 (A) Increase by 10
 (B) Decrease by 10
 (C) Remain the same
 (D) Be zero

119. What is the relationship between Arithmetic Mean (AM), Geometric Mean (GM) and Harmonic Mean (HM)?
 (A) $AM = GM = HM$
 (B) $GM \geq AM \geq HM$
 (C) $HM \geq GM \geq AM$
 (D) $AM \geq GM \geq HM$

120. The average of 7 numbers, 7, 9, 12, x , 5, 4, 11 is 9. What is the missing number x ?
 (A) 13 (B) 14
 (C) 15 (D) 8

121. A train covered first 5 km of its journey at a speed of 30 km/hr and next 15 km at a speed of 45 km/hr. What is the average speed of the train?
 (A) 35 km/hr
 (B) 40 km/hr
 (C) 32 km/hr
 (D) 42 km/hr

122. A distribution consists of three groups having 40, 50 and 60 items. The means of the group are 20, 26 and 15 respectively. What will be the mean of the distribution?
 (A) 20 (B) 18
 (C) 25 (D) 22

123. If the Arithmetic Mean (AM) of two numbers is 6.5 and their Geometric Mean (GM) is 6, what will be the two numbers?
 (A) 6, 9 (B) 5, 9
 (C) 6, 7 (D) 4, 9

124. The Arithmetic Mean (AM) and Harmonic Mean (HM) of two numbers are 9 and 4 respectively. What will be their Geometric Mean (GM)?

- (A) 25 (B) 64
(C) 6 (D) 36
125. The median of the variate value 11, 7, 6, 9, 12, 15, 19 will be—
(A) 12 (B) 9
(C) 15 (D) 11
126. The mean and variance of series A and B are as—
 $\bar{x}_A = 15$, $\bar{x}_B = 20$, $\sigma_A^2 = 25$, $\sigma_B^2 = 16$
Which of the two series is more consistent?
(A) Series A
(B) Series B
(C) Series A and B are equally consistent
(D) None of the above
127. What will be the variance of the following series?
 x : -3 -2 3 8 9
 f : 5 4 22 4 5
(A) 14 (B) 15
(C) 18 (D) 20
128. The probability of two persons being born on the same day (ignoring date) will be—
(A) $\frac{1}{49}$ (B) $\frac{1}{365}$
(C) $\frac{1}{7}$ (D) None of these
129. In tossing of three fair coins at a time, the probability of getting at most one head is—
(A) $\frac{3}{8}$ (B) $\frac{7}{8}$
(C) $\frac{1}{2}$ (D) $\frac{1}{8}$
130. There are two groups of students are consisting of 4 boys and 2 girls and the other 3 boys and one girl. One student is to be selected from each of the two groups. What will be the probability of one boy and one girl being selected?
(A) $\frac{1}{9}$ (B) $\frac{5}{12}$
(C) 1 (D) None of these
131. What is the probability that a leap year will have 53 Sundays?
(A) $\frac{2}{7}$ (B) $\frac{1}{7}$
(C) $\frac{2}{53}$ (D) $\frac{52}{53}$

132. A fair coin is tossed six times. The probability of obtaining heads and tails alternatively is—

- (A) $\frac{1}{64}$ (B) $\frac{1}{32}$
(C) $\frac{1}{2}$ (D) None of these

133. For the following frequency distribution, the standard deviation is $10\sqrt{2}$ —

Class Interval	Frequency
0—10	6
10—20	4
20—30	f_1
30—40	4
40—50	6

What is the value of f_1 ?

- (A) 5 (B) 6
(C) 8 (D) 7

134. The following table gives particulars of men classified according to their age—

Age in years	No. of men
More than 10	80
More than 20	78
More than 30	78
More than 40	68
More than 50	52

What will be the number of men between the age 30–40 years?

- (A) 2 (B) 0
(C) 10 (D) 16

135. What is the probability of two persons being born on different days (ignoring the date)?

- (A) $\frac{48}{49}$ (B) $\frac{364}{365}$
(C) $\frac{6}{7}$ (D) None of these

136. The harmonic mean of three numbers is 18. If two numbers are 12 and 36, the third number will be—

- (A) 15 (B) 18
(C) 24 (D) None of these

137. Consider the following table giving information about the employees of a company—

Monthly Salary				
	Less than or equal to ₹ 10,000	Above ₹ 10,000 but less than or equal to ₹ 25,000	Above ₹ 25,000	Total
Female	34	B	12	76
Male	62	42	C	D
Total	A	72	32	200

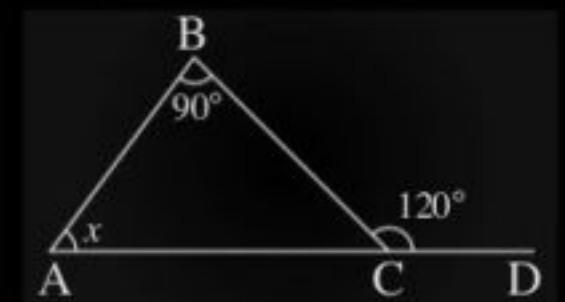
What will be the values of A, B and C?

- (A) A = 96, B = 32, C = 20
(B) A = 96, B = 32, C = 25
(C) A = 96, B = 30, C = 20
(D) A = 90, B = 30, C = 20

138. Which is the odd one amongst the following 4 numbers?

- (A) 876321 (B) 349416
(C) 318960 (D) 387316

139. If the exterior angle in figure G is 120° and angle B is 90° , what is the value of angle x in the triangle?



- (A) 40° (B) 35°
(C) 30° (D) 45°

140. Which is the odd one amongst the following?

- (A) 26th January
(B) 13th April
(C) 15th August
(D) 2nd October

141. In a row of boys, Rakesh is 11th from the right and Mohan is 15th from the left. If Rakesh is 12th from Mohan, what is the total number of boys in the row?

- (A) 36 (B) 38
(C) 37 (D) 39

142. What is the value of the following?

$$\left(1 - \frac{1}{2}\right) \left(1 - \frac{1}{3}\right) \left(1 - \frac{1}{4}\right) \dots \dots \left(1 - \frac{1}{n-1}\right) \left(1 - \frac{1}{n}\right)$$

- (A) $\frac{n}{n+1}$ (B) $\frac{1}{5n}$
(C) $\frac{1}{3n}$ (D) None of these

143. What will be the ascending order of the following fractions ?

$$\frac{3}{8}, \frac{3}{5}, \frac{2}{3} \text{ and } \frac{1}{2}$$

(A) $\frac{3}{8}, \frac{1}{2}, \frac{2}{3}, \frac{3}{5}$

(B) $\frac{1}{2}, \frac{3}{8}, \frac{3}{5}, \frac{2}{3}$

(C) $\frac{3}{8}, \frac{1}{2}, \frac{3}{5}, \frac{2}{3}$

(D) $\frac{1}{2}, \frac{2}{3}, \frac{3}{8}, \frac{3}{5}$

144. What is the least number which when divided by 4, 5, 6 and 8 leaves a remainder 3 but when divided by 9 leaves no remainder ?

(A) 123 (B) 243

(C) 729 (D) 363

145. Which number should be subtracted from 24, 31, 58 and 79 so that the ratio of the remainders of the first two numbers is proportion to the ratio of the remainders of the other two numbers ?

(A) 5 (B) 7

(C) 8 (D) None of these

146. Consider the following statements—

- I. All girls are mothers.
- II. Some mothers are above 20 years of age.

On the basis of the above two statements, find out which one of the following conclusions is correct logically ?

(A) All girls are above 20 years of age

(B) Some girls are above 20 years of age

(C) All mothers are girls

(D) None of the above

147. P, Q, R, S and T are sitting in a row. Q is between P and T. To find out who among them is in the middle, which of the following information (I and II) is/are sufficient ?

I. P is on the left of Q and right of S.

II. R is at the right end.

(A) Only I

(B) Only II

(C) Either I or II

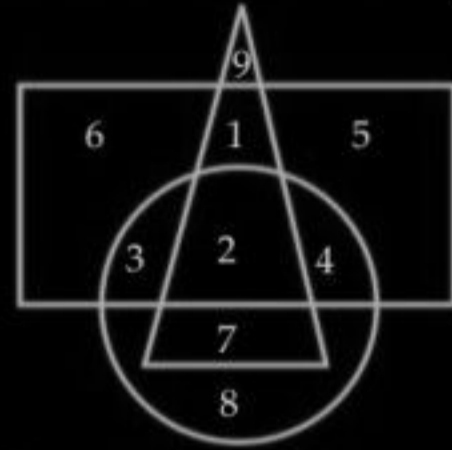
(D) Both I and II

148. A father is presently three times as old as his son. Five years back, he was four times as old as his son. What is the present age of the son ?

(A) 20 years (B) 18 years

(C) 15 years (D) 12 years

149. In the following figure the triangle represents men, the rectangle represents employed ones and the circle represents doctors. Which is the area of the figure that represents men doctors who are not employed ?



(A) 8 (B) 7

(C) 3 (D) 1

150. Which one of the following numbers is like the given numbers 253, 275, 385 ?

(A) 263 (B) 165

(C) 835 (D) 683