

Question Booklet Series : D

Time - 90 minutes.

Total Marks - 100

SECTION : Arithmetic

Total Marks -50

Each question in this section carries one mark. Negative marks of 0.25 will be deducted for every wrong answer

- If the length of a rectangle is increased by 8 m its area increases by 72 sq.m. The breadth of the rectangle is
A. 8 m
B. 12 m
C. 9 m
D. can not be concluded from the given data
- Ratio of principal and yearly amount is 16:17. The rate of interest per annum is
A. $12\frac{1}{2}\%$
B. $6\frac{1}{4}\%$
C. $5\frac{5}{17}\%$
D. 10%
- Area of a rectangle is 24 cm² and perimeter 20 c.m. then length of diagonal is
A. $2\sqrt{7}$
B. $2\sqrt{11}$
C. $2\sqrt{13}$
D. $2\sqrt{17}$
- Ratio of cost price and selling price is 5:4. Then find the % of loss.
A. 15%
B. 20%
C. 25%
D. $11\frac{1}{9}\%$
- $A=2P$, $B=A+3$, $C=B+3$ The average of A,B and C is
A. $p+3$
B. $2p+1$
C. $2p+3$
D. $3p+6$
- 300 apples are distributed among A,B and C in such a way that three times of the number received by A may be equal to four times of B and 9 times that of C. The number of apples received by B is
A. 108
B. 100
C. 104
D. 118
- If the sum of two numbers is 50 and their mean proportional is 15, then the numbers are
A. 35, 15
B. 25, 25
C. 40, 10
D. 45, 5

8. Rs. 15000 being the worth of 0.25 part of a property, the worth of 0.03×0.5 part of the same property is (in Rs.)
A. 9000
B. 2250
C. 1500
D. 900
9. A number is as much greater than 21 as is less than 71. The number is
A. 41
B. 39
C. 49
D. 46
10. Find the principal, if the interest is Rs.180 per year @ 5% per annum
A. 3000
B. 3500
C. 3600
D. 4000
11. Rahul, Rohit and Rawnak enter into a partnership business with investments of Rs.3500, Rs.4500 and Rs.5500. If the first 6 months profit is Rs.405, then share of Rahul in the profit will be
A. Rs.200
B. Rs.105
C. Rs.250
D. Rs.150
12. In a partnership business, $\frac{3}{4}$ th of A's capital, 0.25 of B's capital and 30% of C's capital are equal. Share of profit of B in a total profit of Rs.52,000 is
A. Rs.8000
B. Rs.24,000
C. Rs.30,000
D. Rs.20,000
13. Ratio of Cost price and selling price is 10:11, then profit percentage is
A. 5%
B. 10%
C. 11%
D. 20%
14. In an examination 65% of the total number of examinees passed. If the number of failures is 17% more than the number of candidates not appeared in the examination then total number of passed candidates is
A. 620
B. 310
C. 106
D. 403
15. 12 persons take 9 days to prepare 18 windows. The no. of days required by 54 persons to prepare 45 windows.
A. 1
B. 5
C. 3
D. 10
16. A rectangular field has an area of 864 sq.m. One of its side is 24m. The ratio of its length and breadth is
A. 6:5
B. 3:2
C. 4:3
D. 9:5
17. If in "y" years Rs.z is obtained as simple interest @ x% per annum, then the principal is
A. Rs. $100x/yz$
B. Rs. $100yz/x$
C. Rs. xyz
D. Rs. $100z/xy$

18. If the area of the four walls of a room is 88 sq. m. and the perimeter of its floor is 22 m. then the height of the room is (in m.)
A. 5
B. 4
C. 4.5
D. 8
19. Rs.570 are to be divided among A, B and C so that their shares are in the ratio $1/3:1/5:1/10$. The respective share of B is
A. Rs.180
B. Rs.300
C. Rs.90
D. Rs.120
20. If the ratio of the areas of two squares is 4:9, then the ratio of their perimeters is
A. 2 : 3
B. $1 : 2\sqrt{3}$
C. $\sqrt{2} : \sqrt{6}$
D. $3\sqrt{2} : 1$
21. Average age of three brothers and their father is 18 years. Average age of these three brothers and their mother is 16 years. Mother's age is 34 years. The age of the father is
A. 42 years
B. 39 years
C. 40 years
D. 38 years
22. The average of the least and the greatest prime number of two digits is
A. 54
B. 55
C. 54.5
D. 55.5
23. The price of oil is increased by 20%. If the expenditure is not allowed to increase, the ratio between the reduction in consumption and the original consumption is
A. 1:6
B. 6:1
C. 5:1
D. 1:5
24. The ratio between the present age of A and B is 4:5. If the difference between their age is 8 years. Then sum of their personal age is
A. 32 years
B. 40 years
C. 65 years
D. 72 years
25. If H.C.F. of a and b be c, then L.C.M. will be -
A. abc
B. ab/c
C. ac/b
D. c/ab
26. When a number is divided by 63 the remainder is 25. When the number is divided by 7 the remainder will be
A. 2
B. 3
C. 4
D. 5
27. Price of an article is increased twice consecutively by 10% and as a result of the article becomes Rs.484. Initial price of the article was
A. Rs.375
B. Rs.380
C. Rs.390
D. Rs.400

28. If Sourav runs at 31.2 kmph, then in 3 seconds he will run
A. 26 m
B. 30 m
C. 35 m
D. 42 m
29. A book seller sold two books for Rs.178 each. On one he gains 14% while on the other he losses 14%. His gain or loss in the whole transaction is
A. loss of 1.41%
B. gain of 2.56%
C. gain of 4%
D. loss of 1.96%
30. A man buys a car at 15/16th of its value and sells it for 10% more than its value. His gain percentage is
A. 11.67
B. 15.57
C. 16.67
D. 17.33
31. A person sold 320 mangoes for the cost price of 400 mangoes. His gain percent is
A. 10%
B. 15%
C. 12½%
D. 25%
32. If a, b, c are three sum of money such that b is the simple interest on a, c is the simple interest on b for the same time and the same rate of interest, then we have
A. $a^2 = bc$
B. $c^2 = ab$
C. $abc = 1$
D. $b^2 = ac$
33. A four digit number is divisible by 7 becomes divisible by 3 when 10 is added to it. The largest such number is
A. 9987
B. 9996
C. 9999
D. 9989
34. Two buses travel to a place at 25 kmph and 35 kmph respectively. If the second bus takes 16½ hr less than the first for the same journey, the length of journey is
A. 1100 km
B. 900 km
C. 1350 km
D. 785 km
35. The H.C.F of two number is 9 and their L.C.M is 270. If the sum of the number is 99, their difference is equal to--
A. 18
B. 15
C. 12
D. 9
36. The salaries of A, B and C are in the ratio of 2:3:5. The salary of B and C together is Rs.8000. Percentage of the salary of C more than that of A by --
A. 150%
B. 100%
C. 200%
D. 250%
37. Average of three numbers is 21 and the average of these three numbers and a fourth number is 18. The fourth number is
A. 7
B. 8.5
C. 8
D. 9

38. The average of 11 numbers is 6. If each number is multiplied by 7 then the average of the new set of numbers is
A. 66
B. 77
C. 36
D. 42
39. A train 150m long crosses a standing man in 5 seconds. The speed of the train is
A. 108 kmph
B. 32 kmph
C. 112 kmph
D. 40.5 kmph
40. The number 77 is divided into two parts such that H.C.F of two parts is 11 and their L.C.M is 110. The smaller of the two parts is
A. 11
B. 22
C. 44
D. 55
41. A person is asked to simplify $(2+2 \times 2)/(2 \div 2 \times 2)$ and his answer is 16. The percentage error committed by him is
A. 23.1
B. 81.25%
C. 433.33%
D. No error
42. If $37\frac{1}{2}\%$ of a number is 45 then $87\frac{1}{2}\%$ of the number will be
A. 105
B. 102
C. 96
D. 92
43. The simple interest on Rs.5250 from 1st February, 2013 to April 14, 2013 at $7\frac{1}{2}\%$ rate will be
A. Rs. 78.75
B. Rs. 104
C. Rs. 26.50
D. Rs. 104.25
44. $\frac{2}{3}$ rd of a number is greater than $\frac{1}{6}$ th of it by 10. The number is
A. 15
B. 20
C. 33
D. 12
45. If the list price of an article be x and the price after discount (x-y), then the rate of discount is
A. $y\%$
B. $100y/x\%$
C. $100x/y\%$
D. $100y\%$
46. Speed of the stream is 2 km/hr. A boat takes 2 hours to cover a distance down the stream and 3 hours to return. Speed of the boat is
A. 15 km/hr
B. 20 km/hr
C. 10 km/hr
D. 25 km/hr
47. A certain number of men can finish a piece of work in 60 days. If however, there were 10 men less, it would take 20 days more for the work to be finished. No. of men were there originally
A. 20
B. 30
C. 50
D. 40

48. The recurring decimal fraction $0.3333\dots$ represents the real number
A. 0.3
B. $33/100$
C. $1/3$
D. $100/33$
49. A carton containing 20 glass toys is dropped. Which of the following can not be the ratio of broken toy to unbroken toy?
A. 1:4
B. 3:1
C. 3:2
D. 5:1
50. Rs.1760 was divided between A and B in such a way that $1/3$ rd of A's profit will be equal to $2/5$ th of B's profit. Find the profit of B.
A. Rs.700
B. Rs.750
C. Rs.800
D. Rs.850

SECTION : General Studies

Total Marks -50

Each question in this section carries 0.5 marks. Negative marks of 0.125 will be deducted for every wrong answer

51. The nonmetal that conducts heat and current
A. Graphite
B. Boron
C. Silicon
D. Phosphorous
52. The fourth state of matter
A. Plasma
B. Solid
C. Viscous
D. Super cooled
53. Pressure cooker cooks rice faster because
A. It always lets the steam escape
B. High pressure crushes the hard covering of rice grains
C. It does not let the heat energy escape easily
D. High pressure raises the boiling point of water
54. Which of the following foods is the best source of Protein?
A. Butter
B. Fish
C. Lettuce
D. Milk
55. D R D O Stands for
A. Department of Research and Development Organisations
B. Dental Research and Development Organisation
C. Documentary Reforms and Deployment Organisation
D. Defence Research and Development Organisation

56. The earlier name of Sher Shah was
A. Juna Khan
B. Sarafraj Khan
C. Farid Khan
D. Khijir Khan
57. The celebrated novel 'Godfather' was authored by
A. Harold Robins
B. John Milton
C. Victor Hugo
D. Mario Puzo
58. Koutilya wrote the book named
A. Mudrarakhsas
B. Astadhyai
C. Buddhacharit
D. Arthasastra
59. In India, due to the influence of retreating monsoon, rainfall occurs in the
A. Coromondal Coast
B. Northern circars coast
C. Konkon Coast
D. Malabar Coast
60. The gas present in the stratosphere which filters out some of the sun's ultraviolet light and provides an effective shield against radiation damage to living things is
A. Helium
B. Ozone
C. Oxygen
D. Methane
61. The person who gave the permission to Jobcharnak to do business in Bengal
A. Khurshid Khuli Kha
B. Sayasta Kha
C. Sujauddin
D. Farukhshiyar
62. The extinct animal used in the logo of W W F is
A. Tiger
B. Giant Panda
C. Dodo
D. Rhinoceros
63. Who was recently appointed as the interim president of BCCI
A. Jagmohan Dalmiya
B. Sunil Gavaskar
C. Sashant Manohar
D. Ravi Shastri
64. When the high tide is lower and the low tide is higher than at normal time it is called the :
A. Spring tide
B. Neap tide
C. Tidal bore
D. Syzygy
65. A body moving uniformly along a circular path has-
A. Constant velocity
B. Constant speed
C. Variable speed
D. Same direction of motion
66. Most impure form of natural water is
A. River water
B. Lake water
C. Sea water
D. Rain water

67. The first woman Prime Minister in the world is -
A. Sirimavo Bandarnayek
B. Margaret Thatcher
C. Indira Gandhi
D. Begum Khaleda Zia
68. Socrates, the wise man of ancient world who developed the method of enquiry and instruction, belonged to
A. France
B. Athens
C. Greece
D. China
69. The highest peak in India is
A. Kanchanjunga
B. Mt. Everest
C. Mt. Godwin Austen (K2)
D. Nanga Parbat
70. The vedic deity Indra was the god of
A. Wind
B. Eternity
C. Rain and Thunder
D. Fire
71. Ecology is the study of interrelations among -
A. Soil and water
B. Man and environment
C. Organisms and environment
D. Members of a family
72. Ornithology is the
A. study of bones
B. study of birds
C. study of smells
D. None of the above
73. Light energy is converted into chemical energy in
A. Electrolysis
B. Photosynthesis
C. Respiration
D. Photoelectric Effect
74. According to 2011 report the district with highest population in India is
A. Gaya, Bihar
B. Alawar, Rajasthan
C. Hazaribag, Jharkhand
D. North 24 Parganas, W.B.
75. Which of these countries is not a member of SAARC
A. Nepal
B. Bhutan
C. Pakistan
D. Myanmar
76. State in which few govern the many
A. Monarchy
B. Oligarchy
C. Plutocracy
D. Autocracy
77. Himalayan Mountaineering Institute is located at
A. Dehara Dun
B. Darjeeling
C. Simla
D. Nainital

78. If the mass and the velocity of an object both are doubled, its kinetic energy become
- A. 4 times
B. 8 times
C. 12 times
D. 16 times
79. Depletion of ozone layer is mainly caused by
- A. Chlorofluro Carbon(CFC)
B. Oxygen
C. Nitrogen
D. Argon
80. The name of the Indian Cricketer who took ten wickets in one innings of a Test Cricket Match(for men)
- A. B.S. Bedi
B. Chandrasekhar
C. Kapil Dev
D. Anil Kumbley
81. Kathmandu is situated on the bank of river
- A. Kaligandak
B. Bagmati
C. Manas
D. Tista
82. The pale yellowish color of the urine in a normal person is due to the presence of pigment-
- A. Bilirubin
B. Biliverdin
C. Lecithin
D. Urochrome
83. Malfunctioning of which of the following organs causes jaundice?
- A. Stomach
B. Pancreas
C. Liver
D. Kidney
84. India shares common boundaries with
- A. Nepal, Bhutan, China, Pakistan
B. Nepal, Bhutan, Iran, Afghanistan
C. Nepal, Bangladesh, Pakistan, Iraq
D. Myanmar, Nepal, Bhutan, Iran
85. A prima facie case is as such
- A. As it seems at first sight
B. As it is made to seem at first sight
C. As it turns out to be at the end
D. As it seems to the court after a number of hearings
86. 'Pulitzer Prize' is awarded for outstanding work in the field of
- A. Environmental Studies
B. Science and Technology
C. International Understanding
D. Literature and Journalism
87. The Eminent Sitar-player Pandit Rabisankar was the disciple of
- A. Baba Alauddin Khan
B. Enayat Khan
C. Ali Akbar Khan
D. Vilayat Khan

88. Light year is related to
A. Energy
B. Speed
C. Distance
D. Intensity
89. Pointing to a photograph of a boy Suresh said. "He is the son of the only son of my mother". How is Suresh related to the boy.
A. Brother
B. Uncle
C. Cousin
D. Father
90. The right which is legal but not a fundamental right
A. Right to freedom
B. Right against exploitation
C. Right of minorities to establish educational institutions
D. Right to property
91. Which of these languages have highest number of speakers in West Bengal
A. Urdu
B. Oriya
C. Nepali
D. Santhali
92. The name of the famous film director who was the brother of author Mahasweta Devi is
A. Mrinal Sen
B. Ritwik Ghatak
C. Tapan Singh
D. Ajay Kar
93. Who invented Electric Generator
A. Sir Alexander Graham Bell
B. Michael Faraday
C. Alfred B Nobel
D. Thomas Alva Edison
94. The southernmost point of peninsular India, that is Kanyakumari is
A. North of Tropic of Cancer
B. South of the Equator
C. South of the Capricorn
D. North of The Equator
95. Smoke is a
A. Solution of liquid in gas
B. Solution of solid in gas
C. Solution of gas in gas
D. Solution of solid in liquid
96. Birbal became minister in the reign of
A. Babar
B. Akbar
C. Jahangir
D. Shahjahan
97. If we add extra solvent to a solution, it becomes
A. Super saturated
B. Saturated
C. Non-saturated
D. Colloidal solution
98. The longest river of the Peninsular India is
A. Narmada
B. Mahanadi
C. Godavari
D. Kaveri

99. The Chief Justice of the Supreme Court of India is
A. Justice P Sathasivam
B. Justice A K Patnaik
C. Justice K S P Radhakrishnan
D. Justice R M Lodha
100. The secretary of state of the United States of America is
A. Hillary Clinton
B. Condolezza Rice
C. Leon Panetta
D. John Kerry
101. When heat is given to a solid, its temperature
A. Increases
B. Decreases
C. Either increases or remains same
D. Remains same
102. Essential oils are purified by
A. Fractional distillation
B. Steam distillation
C. Sublimation
D. Simple distillation
103. The major constituent of Air is
A. Nitrogen
B. Carbon dioxide
C. Oxygen
D. Hydrogen
104. FIFA world cup 2014 will be held in
A. Russia
B. Brazil
C. Qatar
D. Argentina
105. Which of the following is correctly matched
A. Apiculture-Honey bee
B. Pisciculture-Silk Moth
C. Sericulture-Fish
D. Aquaculture-Mosquitoes
106. Milkha Singh achieved in 1960 Olympics in Athletics
A. Fourth in 400m final
B. Second in 400m final
C. Eighth in 50km walk
D. Seventh in 800m final
107. Subhas Bose disappeared from his residence in the year
A. 1940
B. 1941
C. 1939
D. 1938
108. London Olympic gold medalist 'Usain Bolt' hails from
A. Jamaica
B. Ethiopia
C. Mali
D. South Africa
109. Letters M R in M R Shop stands for
A. Modified Ration
B. Maximum Ration
C. Minimum Ration
D. Marginal Ration
110. Which district of West Bengal has the highest literacy rate.
A. East Medinipur
B. Uttar 24 Parganas
C. Kolkata
D. Howrah

111. The mobile handset making company 'Nokia' was recently purchased by
A. Blackberry B. Microsoft
C. Apple D. Samsung
112. Choose the correct synonym for EMBEZZLE
A. Misappropriate B. Balance
C. Remunerate D. Clear
113. The 'Head of the defence forces' in India is
A. The Prime Minister B. The Air Chief Marshal
C. The Defence Minister D. The President of India
114. The first Indian to receive an Oscar for Music direction is
A. K.L.Saigal B. Pankaj Kumar Mollick
C. Salil Chowdhury D. A.R.Rahaman
115. The world famous Ajanta Caves is located in
A. Orissa B. Andhra Pradesh
C. Kerala D. Maharashtra
116. The main active constituent of tea and coffee is
A. Nicotine B. Chlorophyll
C. Caffeine D. Aspirin
117. To get three images of an object one should have to place two plane mirrors at an angle of
A. 120° B. 30°
C. 90° D. 60°
118. The first recipient of Rajiv Gandhi Khel Ratna Award is
A. Limba Ram B. Leander peas
C. Vishwanathan Anand D. Kapil Dev
119. Atmosphere contains dust particles, salt grains, pollen grains, smoke etc. which are collectively known as
A. Water vapour B. Ozone
C. Aerosols D. CFC
120. The inhabitant of Indus Valley Civilization were not familiar with
A. Cow B. Dog
C. Horse D. Sheep
121. The Chief Election Commissioner of India is appointed by the
A. The President of India B. The Prime Minister of India
C. The Vice - President of India D. The Chief Justice of the Supreme Court

122. Which one of the following dynasties was ruling over North India at the time of Alexander's invasion?
A. Maurya
B. Nanda
C. Kanva
D. Sunga
123. Which of these mode of transport is available only in Kolkata among the major cities in India
A. Ferry
B. Metro rail
C. Horse Carriage
D. Tram
124. If the plane of the earth's equator were not inclined to the plane of the earth's orbit
A. the year would be longer
B. the winters would be longer
C. there would be no change of seasons
D. the summers would be warmer
125. In which of the following festivals are boat races a special feature?
A. Rongali Bihu
B. Onam
C. Pongal
D. Navratri
126. The tenth Guru of the Sikhs was
A. Guru Nanak
B. Guru Govind Singh
C. Guru Arjun Singh
D. Guru Teg Bahadur
127. The nuclear reactor damaged badly in the Tsunami which was preceded by an earthquake in Japan is located in
A. Tokyo
B. Fukushima
C. Kyoto
D. Hiroshima
128. "sa-re-ga-ma-pa-dha-ni-sa" - among these tones the relation between the frequencies of the first and second "sa"
A. frequency of the 1st = $2 \times$ frequency of the 2nd
B. frequency of the 1st = frequency of the 2nd
C. frequency of the 2nd = $3 \times$ frequency of the 1st
D. frequency of the 2nd = $2 \times$ frequency of the 1st
129. 'The Republic' was written by
A. Plato
B. James Mill
C. Jeremy Bentham
D. Machiavelli
130. Look at this series: 22, 21, 23, 22, 24, 23, What number should come next.
A. 22
B. 24
C. 25
D. 26
131. The director of the film 'Life of Pi' is
A. Spielberg
B. Ang Lee
C. Michel Haneke
D. Robert De Niro

132. Who won the World Chess Championship 2013
A. Vishwanathan Anand
B. Vladimir Kramnik
C. Magnus Carlsen
D. Boris Gelfand
133. Which is the odd one out
A. Teesta
B. Jaldhaka
C. Ajoy
D. Mahananda
134. Potato is a modified form (outgrowth) of
A. Stem
B. Root
C. Leaf
D. Fruit
135. The world famous athlete Usain Bolt is from
A. Kenya
B. Uruguay
C. Jamaica
D. United Kingdom
136. The real name of the famous revolutionary known as 'Deshpriya' was -
A. Gandhiji
B. Ramkrishna Deb
C. Chittaranjan Das
D. Jatindra Mohan Sengupta
137. The mass of 1 litre of water at 4° C is
A. 1 gm
B. 1 mg
C. 1 kg
D. 1 quintal
138. Escape velocity of a rocket fired from the earth towards the moon is a velocity to get rid of the
A. Earth's gravitational pull
B. Moon's gravitational pull
C. Centripetal force due to the earth's rotation
D. Pressure of the atmosphere
139. The historian V. Smith has called 'Napoleon of India' to
A. Chandragupta I
B. Samudragupta
C. Skandagupta
D. Goutamiputra Satkarni
140. One who possess many talents
A. Versatile
B. Nubile
C. Exceptional
D. Talented
141. The name of 'Leslie Claudius' is associated with the game of
A. Football
B. Cricket
C. Lawn Tennis
D. Hockey
142. The new chairman of 'TATA SONS' is
A. Ratan Tata
B. Ravi Kant
C. Cyrus Palongi Mistry
D. Sapoor Mistry

143. Which one of the following is not an input device of a computer:
A. Keyboard B. Joystick
C. Printer D. Optical Character Reader
144. The first Bengali translator of 'Mahabharata' was
A. Kabikankan Mukundaram B. Chandidas
C. Kabindra Parameswar D. Krishnadas Kabiraj
145. Of the different blood groups A, B, AB and O which one can be given to a person whose blood group is A?
A. Group A only B. Group B only
C. Group A and O D. Group A and B
146. 'Geetgobinda' was composed by
A. Banbhatta B. Vishnugupta
C. Joydev D. Bhas
147. The earliest example of Bengali Literature is
A. Charyapada B. Shri Krishnakirtan
C. Gathasaptosati D. Shri Krishnavijaya
148. 'Yen' is the official currency of the country of-
A. China B. North Korea
C. Thailand D. Japan
149. Jesus Christ was crucified in
A. 4 BC B. 4 AD
C. 20 AD D. 1 AD
150. Gautama Budha was born in
A. Pataliputra B. Bodh Gaya
C. Vaishali D. Lumbini