Total Marks - 100

Time - 90 minutes.

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

1. 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

2. 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. $5\frac{15}{17}\%$ D. 10%

3. 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. $2\sqrt{17}$

4. Ratio of cost price and selling price is 5:4. Then find the % of loss.
    A. 15%   B. 20%
    C. 25%   D. $11\frac{1}{9}\%$

5. 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

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

7. 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 0.03x0.5 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, 3/4th 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 by 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+2×2)/(2÷2×2) 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 37½ % of a number is 45 then 87½ % 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 7½% rate will be
   A. Rs. 78.75
   B. Rs. 104
   C. Rs. 26.50
   D. Rs. 104.25

44. 2/3rd of a number is greater than 1/6th 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........α 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 1/3rd of A's profit will be equal to 2/5th 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 then 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 in 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. Rithik 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 Capricon
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 'Usein 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 Medinupur   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 on of the following dynasties was ruling over North India at the time of Alexander's invasion?
   A. Maurya
   B. Nanda
   C. Kaniva
   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 he 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 earth quake 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× frequency of the 2nd
   B. frequency of the 1st = frequency of the 2nd
   C. frequency of the 2nd = 3× frequency of the 1st
   D. frequency of the 2nd = 2× 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. Spilberg
   B. Aang Li
   C. Michel Haneke
   D. Robert De Niro

132. Who won the World Chess Championship 2013
    A. Vishwanathan Anand   B. Vladmir Kramnik
    C. Magnus Carisen   D. Boris Gelfland

133. Which is the odd one out
    A. Teestha   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 gravitaional 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 Mistri   D. Sapoor Mistri

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