Part - I : General Knowledge

1. In respect of mineral reservoir what is the position of Madhya Pradesh in the country?
    - (a) 3rd
    - (b) 4th
    - (c) 1st
    - (d) 5th

2. Which of the following is the mustard producing district/districts of Madhya Pradesh?
    - (a) Gwalior
    - (b) Bhind
    - (c) Morena
    - (d) All of these

3. Where is diesel engine factory located in Madhya Pradesh?
    - (a) Indore
    - (b) Bhopal
    - (c) Sagar
    - (d) Vidisha

4. Deendayal Antyodaya Scheme is for:
    - (a) People and family living below poverty line
    - (b) Only for individuals living below poverty line
    - (c) People having their income below 3 lakhs per annum
    - (d) Families having maximum 5 members in their family

5. Where did the first fire of 1857 rebellion in Madhya Pradesh trigger?
    - (a) Gwalior cantonment
    - (b) Neemuch cantonment
    - (c) Shivpuri
    - (d) Mhow

6. Who was the first President of Republic India?
    - (a) Pt. Jawaharlal Nehru
    - (b) Dr. Rajendra Prasad
    - (c) W.C. Banerjee
    - (d) None of the above

7. Where is Chandoli National Park located?
    - (a) Maharashtra
    - (b) Kerala
    - (c) Karnataka
    - (d) Himanchal Pradesh

8. Which of the following Nuclear Plant is in Tamil Nadu?
    - (a) Tarapur
    - (b) Narora
    - (c) Rawat Bhata
    - (d) Kundankulam

9. Who was the First Indian to receive Ramon Magsaysay Award?
    - (a) Acharya Vinoba Bhave
    - (b) Saifuddin Kitchlu
    - (c) Shyama Prasad Mukherjee
    - (d) Abdul Kalam Azad

10. Who was the first Chinese traveller to visit India?
    - (a) Fahein
    - (b) Hu-sang
    - (c) Xin-chi
    - (d) None of the above

11. Where is the Headquarter of Indian Coast Guard located?
    - (a) Patna
    - (b) Mumbai
    - (c) New Delhi
    - (d) Bangalore

12. Agni, Prithvi, Brahmos are the examples of _____ manufactured by DRDO, India.

(a) Missile System
(b) Ships
(c) Aircrafts
(d) Machine Guns

13. Which Governor General of India sold Allahabad and Kara to the Nawab of Awadh?

(a) Warren Hastings
(b) Lord Cornwallis
(c) Lord Wellesley
(d) Robert Clive

14. Name one time associate of Mahatma Gandhi who separated and launched a radical

(a) P. Thyagaraja Shetti
(b) Chatrapati Maharja
(c) E.V. Ramaswamy Naicker
(d) Jyotirao Govindaro Phule

15. Whose nick name was Frontier Gandhi?

(a) Khan Abdul Gaffar Khan
(b) Vinioba Bhave
(c) Mahatma Gandhi
(d) None of these

16. Who was the first Foreign Minister of free India?

(a) Jawaharlal Nehru
(b) Gulzarilal Nanda
(c) Lal Bahadur Shastri
(d) John Mathai

17. China has launched its ambitious transcontinental intiative Maritime Silk Road (MSR). It will pass through which of the following 3 Southeast Asian countries?

(a) Vietnam, Japa, Indoneshia
(b) Vietnam, Myanmar, Malaysia
(c) Indonesia, Thailand and Myanmar
(d) Vietnam, Thailand and Malaysia

18. Which of the following countries has recently launched its largest ever missile warship named Tuo Chiang?

(a) China
(b) Japan
(c) South korea
(d) Taiwan

19. European Space Agency has recently made history by placing the first ever lander on a comet. Name the lander?

(a) Phoenix
(b) Lunar
(c) Philae
(d) Morpheus

20. World Environment Day falls on?

(a) June 5th
(b) October 2nd
(c) November 10th
(d) November 19th

21. The World No-Tobacco Day (WNTD) highlights the health risks associated with consumption of all forms of tobacco and advocates the effective policies to reduce its consumption. When is this day observed?

(a) 31st August
(b) 31st March
(c) 31st July
(d) 31st May

22. Asia cup is an _____

(a) International hockey tournament
(b) International Cricket tournament
(c) International Golf tournament
(d) International Football tournament

23. _____ is the road show started by USA in India to attract Indian investors.

(a) Come to USA
(b) Invest In USA
(c) Select USA
(d) Roadshow USA

24. 'Fire volcano' started erupting in which of the following countries?

(a) Japan
(b) Australia
(c) Indonesia
(d) Guatemala

25. Who was the first Indian person to receive Nobel Prize in Economics?

(a) Saifuddin Kitchlu
(b) Amartya Sen
(c) Sherpa Anga Dorjee
(d) S. Mukherjee

26. What was the exact constitutional position of the Indian Republic when the Constitution was brought into force on 26th January, 1950?

(a) A Democratic Republic
(b) A Sovereign Democratic Republic
(c) A Sovereign Secular Democratic Republic
(d) A Sovereign Secular Socialist Democratic Republic

27. A fedral structure for India was first put forward by the:

(a) Act of 1909
(b) Act of 1919
(c) Act of 1935
(d) Act of 1947

28. Who is the author of "The Company of Women"?

(a) John Gray
(b) David Baldacci
(c) Dick Francis
(d) Khushwant Singh

29. Who is the author of the famous Indian book of astrology 'Panchsiddhantika' ?

(a) Varahmihir
(b) Bhaskar
(c) Aryabhatta
(d) Brahma Gupta

30. Who is the author of the book "Life of Pi"?

(a) Yann Martel
(b) Rohinton Mistry
(c) Ken Follet
(d) M.J. Akbar

31. किस आचार्य ने रस को इस प्रकार परिभाषित किया है?
   "विभावानुभावव्यभिचारिसंयोगद्रसनिस्पत्ति"
   (a) आचार्य विश्वनाथ   (b) आचार्य भरत
   (c) आचार्य रामचन्द्र शुक्ल   (d) इनमें से कोई नहीं

32. उपसर्ग में 'सर्ग' का अर्थ है–
   (a) सृष्टि करना   (b) निर्माण करना
   (c) रचना करना   (d) उक्त सभी

33. तत्सम शब्द का चयन कीजिए–
   (a) अकाज   (b) आम
   (c) आषाढ़   (d) आश्रय

34. जो धातु या शब्द के अंत में जोड़ा जाता है, उसे
   _____ कहते हैं।
   (a) समास   (b) अव्यय
   (c) उपसर्ग   (d) प्रत्यय

35. वर्ण माला कहते हैं–
   (a) शब्द समूह को
   (b) वर्णों के आकलन को
   (c) शब्द गणना
   (d) वर्णों के व्यवस्थित समूह को

36. निम्न विकल्प में किसी एक की वर्तनी शुद्ध है, चयन कीजिए–
   (a) न्याधीष   (b) न्यायधीश
   (c) न्यायाधीश   (d) न्यानाधिश

37. निम्न विकल्पों में से शुद्ध वाक्य का चयन कीजिए–
   (a) राजीव अपने माता-पिता का निर्भर रहता है।
   (b) राजीव अपने माता-पिता पर निर्भर है।
   (c) राजीव अपने माता-पिता का निर्भर है।
   (d) राजीव अपने माता-पिता पर निर्भर करता है।

38. निम्नलिखित वाक्य के लिये नीचे दिये गये विकल्पों
   में से वाक्य के प्रकार को चिन्हित कीजिए–
   "ईश्वर करे तुम्हारा जीवन सुखमय हो।"
   (a) विधि वाचक   (b) संकेत वाचक
   (c) इच्छा वाचक   (d) संदेह वाचक

39. 'आहूत' का विलोम है–
   (a) अनाहूत   (b) विनाहूत
   (c) नाहूत   (d) इनमें से कोई नहीं

40. निम्न प्रश्न के शब्द-युग्म के सही अर्थ-भेद का चयन कीजिए–
   कर्म-क्रम
   (a) काम-सिलसिला   (b) सिलसिला-कर्म
   (c) कम-सिलसिला   (d) काम-कम

41. जिस संज्ञा में केवल एक ही व्यक्ति का बोध हो,
   _____ कहलाती है।
   (a) जाति वाचक संज्ञा   (b) व्यक्ति वाचक संज्ञा
   (c) भाव वाचक संज्ञा   (d) द्रव्य वाचक संज्ञा

42. स्वर संधि के कितने भेद होते हैं?
   (a) चार   (b) तीन
   (c) पाँच   (d) आठ

43. जिस सामासिक पद का पहला पद प्रधान हो वह
   कहलाता है।
   (a) द्वंद्व समास   (b) अव्ययीभाव समास
   (c) तत्पुरुष समास   (d) इनमें से कोई नहीं

44. विचित्र अथवा आश्चर्यजनक वस्तु या घटना को देखकर
   हृदय में कौतूहल तथा आश्चर्य का भाव उत्पन्न होता
   है। उसे कौन सा रस कहते हैं?
   (a) वीभत्स रस   (b) अद्भुत रस
   (c) भयानक रस   (d) इनमें से कोई नहीं

45. 'अपकृत्य' में उपसर्ग है–
   (a) उप   (b) आ
   (c) अप   (d) अनु

46. निम्नलिखित तत्सम-तद्भव में से कौन सा विकल्प
   अशुद्ध है?
   (a) भगिनी-बहन   (b) भिक्षा-भिखारी
   (c) मूल्य-मोल   (d) मानुष-मानुस

47. इनमें से कौन समूह वाचक प्रत्यय नहीं है?
   (a) लोग   (b) गण
   (c) वर्ग   (d) प्रेस

48. 'च' वर्ग की ध्वनियों का उच्चारण स्थान है?
   (a) दंत्य   (b) तालव्य
   (c) ओष्ठ्य   (d) कण्ठ्य

49. निम्न में से कौन-सा एक युग्म विपरीतार्थक नहीं है?
   (a) अनाथ-सनाथ   (b) आदि-अंत
   (c) अर्थ-अपूर्ण   (d) अग्रज-अनुज

50. निम्न शब्द-युग्म के विकल्पों में कोई एक युग्म सही नहीं है, गलत युग्म का चयन कीजिए–
(a) धन्न-छन
(b) सुधि-सूची
(c) भाग्य-दुर्भाग्य
(d) तरंग-तुरंग

51. सम्भ्कृति का सधि शब्द होगा–
(a) समकृति
(b) संस्कृति
(c) संस्कृति
(d) संकृति

52. विद्यादान का समास विग्रह है–
(a) विद्या को दान
(b) विद्या का दान
(c) विद्या से दान
(d) विद्या के लिए दान

53. "अलंकार को काव्य की आत्मा कहा जाता है" किसका कथन है?
(a) आचार्य विश्वनाथ
(b) मैथलीशरण गुप्त
(c) पंडितराज जगन्नाथ
(d) आचार्य राम चन्द शुक्ल

54. "हर मुख मानो मधुर मयंक" में अलंकार है–
(a) उपमा
(b) सन्देह
(c) उत्प्रेक्षा
(d) प्रतीप

55. 'वटोही' का पर्यायवाची है–
(a) यात्री
(b) रात्रि
(c) सहयात्री
(d) पथ

56. "कान मरना" मुहावरे का सही अर्थ है–
(a) कान पकना
(b) कान में दर्द होना
(c) चुगली करना
(d) गीत सुनना

57. "मदद देना" निम्न में से किस मुहावरे का अर्थ है?
(a) कंधा पकड़कर चलाना
(b) कंधे से कंधा मिलाकर चलना
(c) कंधा देना
(d) कम्प्यूटर निकालना

58. "तीन लोक से मथुरा न्यारी" लोकोक्ति का सही अर्थ है–
(a) बहुत सुन्दर होना
(b) दूर की वस्तु सुन्दर लगना
(c) जरूरत से ज्यादा बड़ाई करना
(d) कृष्ण भक्त होना

59. "लोहे के चने चबाना" लोकोक्ति का सही अर्थ है–
(a) भूखा रहना
(b) घोर कठिनाई का सामना करना
(c) परिश्रम से घबराना
(d) पराजित होना

60. मरकत, जवाहर, माणिक, वे किसके पर्यायवाची हैं?
(a) कंचन
(b) हरिप्रिया
(c) चंचला
(d) मणि

Part - III : General English

61. He lives _____ Malabar street.
(a) at
(b) across
(c) in
(d) onto

62. He was stabbed _____ a lunatic with a dagger.
(a) from
(b) on
(c) off
(d) by

63. I have eaten nothing _____ yesterday.
(a) from
(b) past
(c) since
(d) till

64. Pick out the appropriate word to join the two sentences given below.
I was tired.
I took the class.
(a) yet
(b) and
(c) so
(d) since

65. Napoleon said. "God is always on the side of the strongest battalions. He is always on the side of the best prepared, the best trained, the most vigilant, the pluckiest and the most determined.
What does the word 'Pluckiest' mean?
(a) Courageous
(b) Cowardly
(c) Luckiest
(d) Timid

66. The advocate skvortskoff looked at the ragged beggar, who had been singing in a Russian choir and was sent away for drunkenness.
What is the meaning of 'ragged' in the passage?
(a) Simple
(b) Torn
(c) Cheap
(d) Thin

67. Pick out the appropriate word to join the two sentences given below.
He was found guilty.
He was punished.
(a) but
(b) therefore
(c) although
(d) before

68. He comes to see us _____ day.
(a) none
(b) little
(c) few
(d) every

69. Find the word which is most similar in meaning to the given word.

Commodious.

(a) Confined
(b) Roomy
(c) Inconvenient
(d) Unsuitable

70. Find the word which is most similar in meaning to the given word.

Capable

(a) Incompetent
(b) Inefficient
(c) Inept
(d) Competent

71. Find the word which is most similar in meaning to the given word.

Cavity

(a) Hole
(b) Elevation
(c) Mound
(d) Height

72. Find the word which is most similar in meaning to the given word.

Disaster

(a) Boon
(b) Misfortune
(c) Happiness
(d) Prosperity

73. He is _____ strong _____ committed

(a) whether, or
(b) so, that
(c) such, that
(d) neither, nor

74. Ria is _____ talented _____ sincere.

(a) whether, or
(b) both, and
(c) hardly, when
(d) scarcely, when

75. He was the most eloquent speaker _____ I have ever head.

(a) which
(b) that
(c) whom
(d) who

76. Replace the underlined phrase with a single word.

It isn't easy to bring up children now a days.

(a) raise
(b) afford
(c) teach
(d) accompany

77. Replace the underlined phrase with a single word.

They called off the afternoon meeting.

(a) rescheduled
(b) continued
(c) cancelled
(d) held

78. Find the word which is opposite to the highlighted word from the given options.

Terrible

(a) Horrible
(b) Dreadful
(c) Delightful
(d) Hideous

79. Find the word which is opposite to the geven word from the given options.

Attract

(a) Rejoice
(b) Rejoin
(c) Repel
(d) Discomfort

80. Find the word which is opposite to the geven word from the given options.

Crowded

(a) Dense
(b) Lonely
(c) Manly
(d) Populated

81. Find the word which is most similar in meaning to the given word.

Dwell

(a) Live
(b) Travel
(c) Move
(d) Migrate

82. Mr. Roy is quite rich, _____ he is not satisfied.

(a) still
(b) since
(c) and
(d) therefore

83. I _____ revealed the secret

(a) could
(b) could not
(c) could have
(d) can

84. You _____ present at the wedding of your younger sister last year.

(a) must
(b) must be
(c) must have been
(d) must have

85. One should mind _____ own business.

(a) one's
(b) their
(c) our
(d) ones

86. I hardly know _____ in the town.

(a) anybody
(b) no one
(c) nobody
(d) nothing

87. I _____ your brother yesterday.

(a) have met
(b) has met
(c) meet
(d) met

88. I _____ the door but there was no reply.

(a) knocked at
(b) knocked on
(c) knocked of
(d) knocked off

89. You are _____ her very well.

(a) known off
(b) known by
(c) known for
(d) known to

90. Do not _____ my private affairs.

(a) interfere in
(b) interfere into
(c) interfere with
(d) interfere for

Part - IV : General Maths

91. If an article cost 50% of its selling price there is a profit of Rs.60. What is the selling price?
    - (a) Rs. 125
    - (b) Rs. 120
    - (c) Rs. 140
    - (d) Rs. 200

92. Ashish spends 10% of his pocket money on himself and gives his sister Rs. 5. If he still has 80% of the original sum, what was the amount he had as pocket money?
    - (a) Rs. 50
    - (b) Rs.100
    - (c) Rs. 70
    - (d) Rs. 55

93. 75% of a number is 380 more than 35% of the same number. What is 20% of that number?
    - (a) 190
    - (b) 195.5
    - (c) 189.5
    - (d) 180

94. If $\frac{x+14}{4x+6} = \frac{3}{4}$ then find the value of $\frac{1}{x}$
    - (a) 8/19
    - (b) 15/28
    - (c) 4/19
    - (d) 11/2

95. The ratio of calls answered by machine to those answered by a possible client is 10 to 3. Every day a telecom company makes 1050 phone calls. How many of these calls are answered by a possible client?
    - (a) 315
    - (b) 298
    - (c) 375
    - (d) 225

96. On a sum at a rate of 5% per annum a trader get Rs. 600 in 3 years. How much he get more if the lent was on CI?
    - (a) Rs. 40.5
    - (b) Rs. 40
    - (c) Rs. 30
    - (d) Rs. 30.5

97. The sum which amount to Rs. 840 in 5 years at the rate of 8% per annum at simple interest is Rs.____.
    - (a) $\frac{100 \times 840}{100+5 \times 8}$
    - (b) $\frac{100+5 \times 8+100}{840}$
    - (c) $\frac{100+840}{400+5 \times 8}$
    - (d) $\frac{840+5 \times 8}{100}$

98. The angle of a triangle are A, B and 30°. The difference between two angles A and B is 30°. Find A and B.
    - (a) 90° and 60°
    - (b) 50° and 80°
    - (c) 30° and 60°
    - (d) 80° and 110°

99. Two numbers are in the ratio of 4:5, if we subtract 6 from each number the ratio will become 3:4. Find the sum of numbers.
    - (a) 54
    - (b) 44
    - (c) 36
    - (d) 56

100. Which of the following equation has two distinct real roots?
    - (a) $2x - 3\sqrt{2x} + \frac{9}{4} = 0$
    - (b) $x^2 + x - 5 = 0$
    - (c) $x^2 + 3x + 2\sqrt{2} = 0$
    - (d) $5x^2 - 3x + 1 = 0$

101. The quadratic equation $3x^2 + \sqrt{5}x + 1 = 0$ has?
    - (a) two distinct real roots
    - (b) two equal real roots
    - (c) no real roots
    - (d) more than 2 real roots

102. If the Co-ordinates of one end of a diameter of a circle are (4,6) and the coordinates of its center are (5,7) find the Co-ordinates of the other end?
    - (a) (4,5)
    - (b) (5,9)
    - (c) (4,10)
    - (d) (6,8)

103. In $\triangle ABC$, AB = AC and $AD \perp BC$, then
    - (a) AB < AD
    - (b) AB > AD
    - (c) AB = AD
    - (d) AB ≤ AD

104. If the angles of a triangle are in the ratio 2:4:6, what is the value of greatest angle? (in radian)
    - (a) $\frac{r}{2}$ radian
    - (b) $\frac{r}{3}$ radian
    - (c) $\frac{r}{6}$ radian
    - (d) $\frac{r}{9}$ radian

105. What is the area of an equilateral triangle having altitude equal to $2\sqrt{3}$ cm?
    - (a) $\sqrt{6}$ square cm
    - (b) $2\sqrt{6}$ square cm
    - (c) $3\sqrt{3}$ square cm
    - (d) $4\sqrt{3}$ square cm

106. One diagonal and perimeter of a Rhombus are 24 cm and 52 cm respectively. The other diagonal is:
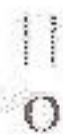   - (a) 13 cm
    - (b) 12 cm
    - (c) 10 cm
    - (d) 15 cm

107. The areas of two circles are in the ratio 1:2. If the two circles are bent in the form of a square, what will be the ratio of their areas?

(a) 1:2

(b) 1:3

(c) $1:\sqrt{2}$

(d) 1:4

108. Two men on opposite sides of a TV tower of height 32 m notice the angle of elevation of the top of this tower of be 45° and 60° respectively. Find the distance (in meters) between the two men.

(a) $32\left(1+\dfrac{1}{\sqrt{2}}\right)$

(b) $32\left(1-\dfrac{1}{\sqrt{3}}\right)$

(c) $32\sqrt{3}$

(d) $32\sqrt{3}$

109. Find the value of $\dfrac{\cos 80°}{\sin 10°}+\cos 59°\ \mathrm{cosec}\,31°$

(a) 1

(b) −1

(c) 2

(d) −2

110. $\sin^2 21°+\sin^2 69°$ is equal to:

(a) 1

(b) 0

(c) $2\sin^2 21°$

(d) $2\sin^2 69°$

111. If $P\cup Q = P$, then which of the following is correct?

(a) $P\cap Q = Q$

(b) $P\subset Q$

(c) Both the above

(d) None of these

112. 40% numbers of parliament know English language and 60% know Hindi. 15% of the Members of Parliament know both the languages and 45 members don't know any of these two languages. How many members know both Hindi and English language?

(a) 15

(b) 30

(c) 45

(d) Cannot be determined

113. If $f(x) = \dfrac{1}{2-\sin x}$ then the value of $f(10)$ is:

(a) 0

(b) $\dfrac{2}{3}$

(c) 1

(d) 2

114. If $f(x)= (x-1)$ then $f(0)$ is:

(a) −1

(b) 0

(c) 1

(d) Cannot be determined

115. Seven students with unequal heights are arranged in a line. In how many ways can the students be arranged in line so the shortest student is first and the tallest student is last?

(a) 49

(b) 60

(c) 120

(d) 122

116. The faces of a red cube and a yellow cube are numbered from 1 to 6. Both cubes are rolled. The probability that the top face of each cube will have the same number is?

(a) 1/8

(b) 1/6

(c) 1/4

(d) 1/3

117. The median and mean of a frequency distribution are 5 and 3 respectively then the mode is?

(a) 6

(b) 8

(c) 9

(d) 10

118. If the arithmetic mean of 3,5,x,8,2 is x, then x is:

(a) 6.5

(b) 7

(c) 7.5

(d) 8

119. What is the common difference of an arithmetic progression in which the difference of 12th and 17th term is 35?

(a) 5

(b) 7

(c) 12

(d) 10

120. If 6 times the 6th term of an arithmetic progression is equal to 12 times the 12th term, then the 18th term will be

(a) 6

(b) 12

(c) 18

(d) 0

Part - V : General Science

121. A specific function of light energy in the process of photosynthesis is to?

(a) Activate chlorophyll

(b) Split water

(c) Synthesis of glucose

(d) Reduce CO_2

122. Kerbs cycle operates in?

(a) Endoplasmic reticulum

(b) Chloroplasts

(c) Golgi bodies

(d) Mitochondria

123. Rate of transpiration in a dorsiventral leaf is

(a) Greater at the upper surface

(b) Greater at the lower surface

(c) Equal at both the surface

(d) None of the above

124. Basic filteration unit of kidney is?

(a) Ureter

(b) Glomerulus

(c) Urethra

(d) Collecting tubule

125. Number of cranial nerves is?
    (a) 36
    (b) 24
    (c) 18
    (d) 12

126. Potato is grown from-
    (a) Cutting of aerial stems
    (b) Cutting of tubers having depressions
    (c) Cuttings of tubers without depressions
    (d) Cuttings of roots

127. Mendel noted how many pairs of contrasting traits in pea plants?
    (a) 2
    (b) 5
    (c) 7
    (d) 9

128. Which one is recyclable waste?
    (a) Paper
    (b) Torn clothes
    (c) Metallic and plastic discards
    (d) All of the above

129. Measurement of water pollution is made by?
    (a) Coliform count
    (b) BOD/BOD
    (c) pH/pH
    (d) All of the above

130. Protein synthesis occurs on-
    (a) Ribosome
    (b) Lysosome
    (c) Nucleus
    (d) Chloroplast

131. In induction, how does the transfer of charges takes place?
    (a) Touching
    (b) Rubbing
    (c) From a distance
    (d) Either by rubbing or touching

132. The S.I. unit of current is-
    (a) Ampere
    (b) Volt
    (c) Ohm
    (d) Mho

133. During electroplating, the pure metal in deposited at the
    (a) Cathode
    (b) Anode
    (c) Both cathode and anode
    (d) At bottom of the electrolytic cell

134. Which of the following statements is correct?
    (a) Metals are bad conductors
    (b) Some metals conduct heat better than others
    (c) Heat can be conducted from one metal to another even if they are not in contact with each other
    (d) When two metal rods are placed in contact with each other, heat can flow from one to the other even if they are at the same temperature.

135. The capilary tube of a clinical thermometer has a kink
    (a) to increase the expansion of mercury
    (b) so that the level of mercury does not fall as soon as the thermometer is taken out of the mouth
    (c) to use less mercury
    (d) to help us see it better

136. Strength of an electromagnet increases by
    (a) increasing the number of turns of the coil
    (b) increasing the current flowing through the coil
    (c) using soft iron core for the coil
    (d) All of the above

137. Sound cannot travel through
    (a) air
    (b) water
    (c) iron
    (d) vacuum

138. Two wires A and B of equal length differ only in their thickness. A is thinner than B. If both are plucked with same force, then?
    (a) A will produce sound of higher pitch than B
    (b) A will produce sound of lower pitch that B
    (c) Both will produce sound of equal pitch
    (d) None of these

139. When a body is negatively charged by friction, it means
    (a) the body has acquired excess of electrons
    (b) the body has acquired excess of protons
    (c) the body has lost some electrons
    (d) the body has lost some neutrons

140. If a charged body attracts another body, the charge on the other body
    (a) must be negative
    (b) must be positive
    (c) must be zero
    (d) may be negative or positive or zero

141. Detergents _____ the surface tension of water
    (a) Reduces
    (b) Increases
    (c) Keeps constant
    (d) Slightly increases

142. The pH value of the solution in which a particular amino acid does migrate under the influence of electric field is called its
    (a) Eutectic point
    (b) Neutralisation point
    (c) Isoelectric point
    (d) Effusion point

143. Calorific value is in the order of
    (a) Fats > Proteins > Carbohydrates
    (b) Carbohydrates > Fats > Protein
    (c) Fats > Carbohydrates > Protein
    (d) Protein > Fats > Carbohydrates

144. Deficiency of vitamin 'A' results in
   (a) Scurvy
   (b) Night blindness
   (c) Beri-beri
   (d) Rickets

145. Bakelite is
   (a) Addition polymer
   (b) Elastomer
   (c) Thermoplastic
   (d) Thermosetting

146. Air Pollutants that produce photochemical smog ase
   (a) Ozone, Chlorine and Sulphur dioxide
   (b) Oxygen, Chlorine and Nitric acid
   (c) Nitrous oxide, PAN and Acrolein
   (d) Carbon dioxide, Carbon monoxide and Sulphur dioxide

147. The number of olefinic bonds in the given compound are?

$$CH_2 = CH - \underset{\underset{O}{\parallel}}{C} - CH = CH - C \equiv N$$

   (a) 2
   (b) 3
   (c) 1
   (d) 4

148. In homologous series _____
   (a) Molecular formula is same
   (b) Structural formula is same
   (c) Physical properties are same
   (d) General formula is same

149. Proton is?
   (a) Nucleus of deuterium
   (b) Ionised hydrogen molecule
   (c) Ionised hydrogen atom
   (d) A particle

150. Four containers of 2L capacity contains dinitrogen as described below. Which one of the following contains maximum number of molecules under similar conditions.
   (a) 2.5 gm - molecules of N_2
   (b) 4 gm - atom of nitrogen
   (c) 3.01×10^{24} N atoms
   (d) 84 gm of dinitrogen