Scholastic Aptitute Test (SAT) – Unit test – 13

Maths
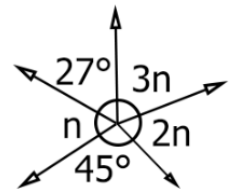
7-I-5. Geometry

51. What is the value of n in the picture?

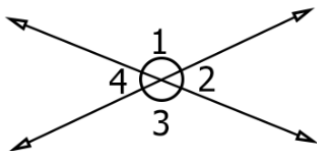   (1) 18°   (2) 72°   (3) 48°   (4) 108°

52. The ratio between the right angle and the straight angle

    (1) Can't say   (2) 1 : 4   (3) 2 : 1   (4) 1 : 2

Drection (Question No. 53-54)

Observe the following diagram carefully and answer the following questions.

53. In the picture, if $\angle 1 = 2x$, $\angle 2 = 70°$ then, the value of x is

    (1) 110°   (2) 70°

    (3) 65°   (4) 55°

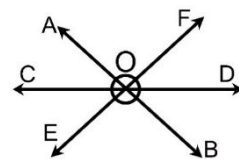54. In the picture, if $\angle 4 = x$, $\angle 2 = 115°$ then, the value of x is

    (1) 115°   (2) 85°   (3) 65°   (4) 75°

55. The complementary angle of the obtuse angle is

    (1) Doesn't have   (2) acute angle   (3) zero angle   (4) 90°

56. In the picture, $\angle AOF + \angle DOB + \angle COE =?$

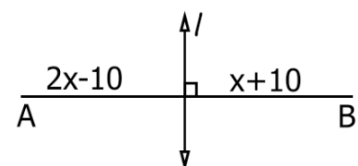   (1) $= 180°$ (2) $> 90°$

    (3) $> 180°$ (4) Can't say

57. Match.

    (a) Verically opposite angles   –   (i) Adjacent angles

    (b) Alternate exterior angles   –   (ii) Right angle

    (c) Complementary angles   –   (iii) Equal

    (d) Linear pair of angles   –   (iv) Non adjacent angles

    (1) a–iii b–iv c–i d–ii   (2) a–iii b–iv c–ii d–I

    (3) a–iv b–iii c–I d–ii   (4) a–iv b–iii c–ii d–i

58. In the picture, if **l** is a perpendicular bisector, the value of x is

    (1) 10   (2) $\frac{20}{3}$

    (3) 20   (4) 40

59. Find the correct statements by observing the given picture.

    (a) $\angle 1, \angle 8$ are alternate exterior angles.   (b) $\angle 3, \angle 6$ are co-interior angles.

    (c) $\angle 4, \angle 6$ are alternate interior angles.   (d) $\angle 2, \angle 7$ are similar angles.

    (1) a, b   (2) b, c   (3) c, d   (4) a, d
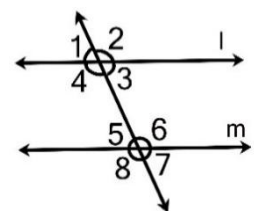
60. In the picture, if $l \parallel m$ and $\angle 2 = 103°$ then, the value of $\angle 5$ is

    (1) 103°   (2) 180°   (3) 77°   (4) 90°

<div align="center"><u>SCIENCE</u>   <u>UNIVERSE AND SPACE</u></div>

61. Assertion: The word crescent refers to the phases where the moon is less than half illuminated.
    Reason: The moon revolves around the earth
    (1) Assertion and Reason are correct
    (2) Assertion is correct and Reason is wrong.
    (3) Assertion and Reason are correct, Reason explains the Assertion.
    (4) Assertion and Reason are correct, Reason does not explain the Assertion.

62. Match.
    1. Astronomical Unit   –   a. 3.2615 light year
    2. Light year   –   b. 3.09×10^{13} km
    3. Astronomical radius   –   c. 9.46×10^{12} km
    4. 1 pc   –   d. 1.496×10^{8} km
    (1) i – a   ii – d   iii – c   iv - b   (2) i - c   ii – b   iii – d   iv - a
    (3) i - c   ii – a   iii – d   iv – b   (4) i - d   ii – c   iii – b   iv – a

63. Telescope : _____ :: Rectilinear propagation of light : Al-hasan-Hayatam
    (1) Han Lippershey   (2) Newton   (3) Galileo   (4) Einstein

64. _____ is at the center in geocentric model.
    (1) Sun   (2) Moon   (3) Earth   (4) Universe

65. The average speed of solar system is _____.
    (1) 828000 km / h   (2) 328000 km / h   (3) 300000 km / h   (4) 800000 km / h

66. The reason for eclipse is _____.
    (1) High speed of light   (2) Rectilinear property of light
    (3) High energy of light   (4) Low energy of light

67. A collection of billions of stars is _____.
    (1) Solar system   (2) Galaxy   (3) Universe   (4) Cosmos

68. Select the correct statement from the following.
    a. On the full moon day, Sun and Moon are in the opposite side.
    b. Sun sets in the West, at the same time Moon rises in the at the East.
    c. Day and Night occur because of the Earth revolves around the Sun
    (1) a, b   (2) b, c   (3) a, b   (4) All of these

69. When Sun, earth and Moon are in 90° angle, the moon will appear to a person on the the surface of the Earth as _____.
    (1) Quarter moon   (2) Half moon   (3) Gibbous moon   (4) Full moon

70. Select the incorrect pair.
    (1) Jupiter - 34 moons   (2) First satellite - Sputnik
    (3) Sarabhai - INCOSPAR   (4) SLV 3   - Rohini

<div align="center"><u>7.3.3. POLYMER CHEMISTRY</u></div>

71. Assertion : Synthetic fibres are the products obtained during .the refining of peroleum products
    Reason : Decomposition nature of synthetic fibres is very less
    (1) Assertion and Reason are wrong
    (2) Assertion is correct and Reason is wrong.
    (3) Assertion and Reason are correct, Reason explains the Assertion.
    (4) Assertion and Reason are correct, Reason does not explain the Assertion.

72. Match the following based on resin code.
    1. 01   –   a. Thermocol
    2. 03   –   b. Vinyl
    3. 04   –   c. Polyester
    4. 06   –   d. Artificial grass
    (1) i – a   ii – d   iii – c   iv - b   (2) i - c   ii – b   iii – d   iv - a
    (3) i - c   ii – a   iii – d   iv – b   (4) i - d   ii – c   iii – b   iv – a

73. Live stock waste : _____ :: Medical Waste : Incineration
(1) Artificial fertilizer   (2) Reuse   (3) Reduce   (4) Natural fertilizer

74. PLA is _____.
(1) Thermosetting Plastic   (2) Thermo plastic
(3) Plastic that burns under heat   (4) 1 and 2

75. Which chemical is not used to make glass?
(1) Magnesium carbonate   (2) Calcium carbonate
(3) Sodium carbonate   (4) silica

76. Choose the odd one out from the following.
(1) Nylon   (2) Rayon   (3) Polyester   (4) Acrylic

77. Which of the following is the strongest synthetic fibre?
(1) Rayon   (2) Nylon   (3) Silk   (4) Cotton

78. Select the wrong one from the following.
a. Flax is a natural fibre obtained from animals.
b. Cotton is a natural fibre.
c. Polymers are joined together to form monomers.
(1) a, b   (2) b, c   (3) a, c   (4) all of these

79. Which of the following is a monomer?
(1) Poly vinyl chloride   (2) Magnesium chloride (3) Hydrogen chloride   (4) Vinyl chloride

80. Select the incorrect pair.
(1) Glass fibre - Organic materials   (2) Wool - Sheep
(3) Flax -   Plant   (4) Silk – Silkworm

Social Science
7.II.1.Vijayanagar and Bahmani Kingdoms

81. Whose rule did Kumara kampanah overthrow in Madurai and establish the Nayaka Government?
(1) Mughals   (2) Pandyas   (3) Sultans   (4) Pallavas

82. Statement 1 : Devaraya II was the greatest ruler of the Saluva dynasty.
Statement 2 : He began the practice of recruiting Muslim fighters to serve him.
(1) Statement 1 & 2 Correct   (2) Statement 1 & 2 Wrong
(3) Statement 1 Correct, Statement 2 Wrong   (4) Statement 1 Wrong, Statement 2 Correct

83. Raksha Tangadi was fought in _____.
(1) 1556   (2) 1565   (3)1655   (4) 1665

84. What is the correct order?
1. Sthalas   2. Nadus   3. gramas   4. Mandalams
(1) 1,3.4,2   (2) 4,3,2,1   (3)4,2,1,3   (4) 4,2,3,1

85. Alauddin Hasan, a Turkish officer, rebelled against _____.
(1) Muhammad bin Tughlaq   (2) Firoz Shah
(3) Alauddin Khilji   (4) Iltutmish

86. Match it:
(a) Shah Nama   – (i) Krishnadeva Raya
(b) Jambavati Kalyanam   – (ii) Firdausi
(c) Panduranga Mahathiyam – (iii) Gangadevi.
(d) Madura Vijayam   – (iv) Tenali
(1) a–iib–iv c–id–iii   (2) a–ivb–iic–id–iii   (3) a–iib–iii c–I d–iv   (4) a–iib–ic–ivd–iii

87. Find out wrong statement:

   (1) Mahmud Gawan contributed extensively to the development of the Bahmani kingdom.

   (2) He changed the number of provinces to eight.

   (3) He used Arab chemists to teach the Bahmani army about the preparation and the use of gun powder.

   (4) Mahmud Gawan was a poet and a prose writer.

88. Who established training institutes for warriors to receive training in the arts?

   (1) Mahmud Gawan   (2) Muhammad I   (3) Muhammad III   (4) Bahman Shah

89. The world-famous Madrasa of Mahamad Gawan is located in the city of _____.

   (1) Bijapur   (2) Bihar   (3) Berar   (4) Bidar

90. _____ is the Foreign Minister of the Bahmini Government.

   (1) Waziri-kull   (2) Nazir   (3) Wasir-i-ashraf   (4) Peshwa

8.5.Development of Education in India

91. The Sangam king who emphasized the importance of education in his epic poem _____

   (1) Pandyan Nedunchezhiyan   (2) Cheran Senguttuvan

   (3) Ariyapadai Kadandha Nedunchezhiyan   (4) Nedungo Perungili

92. Find odd one out (Jains Literature)

   (1) Thirukkural   (2) Silappathikaram   (3) Manimekalai   (4) Naladiyar

93. The concern for Indian Education was first shown by the Governor General----------------.

   (1) Cornwallis   (2). William Benting   (3) Warren Hastings   (4) Wellesley

94. Thomas Babington Macaulay prepared his famous Minute of _____.

   (1) 1834   (2) 1852   (3) 1843   (4) 1835

95. SNDT Women's University was started by _____.

   (1) Jyothi Babule   (2) Karve   (3) Mary Ann Cook   (4) Bethune

96. Who claimed that the state of education, though low compared to England, was higher than in most of European countries?

   (1) Sir Thomas Munro   (2) Ziegenbalg   (3) Plustscham   (4) Dr. Wilson

97. Match it:

   (a) Madras Christ College   –   (i) Tirunelveli

   (b) St. Joseph's College   –   (ii) Tambaram

   (c) Madras State College   –   (iii) Egmore

   (d) St. John's College   –   (iv) Tiruchirappalli

   (1) a–iib–iv c–id–iii (2) a–iv b–ii c–id–iii   (3) a–ii b–ivc–iiid–i   (4) a–ii b–ic–iv d–iii

98. Asseration: The University Grants Commission was set up in India in 1956.

   Reason: This Commission was set up to improve the quality of school Education.

   (1) Both A and R is correct   (2) Assertion is correct, Reason is wrong

   (3) Assertion is wrong Reason is correct   (4) Both A and R is wrong

99. What is wrong with the recommendations of the Kothari Commission?

   (1) Free and compulsory Education for children aged 6-14

   (2) Union Government to invest at least six per cent of its GDP in the Education Sector.

   (3) students would learn up to 5th standard at schools in their mother tongue

   (4) 10+2+3 pattern of Education

100. Who introduced the Wardha Kalvi scheme was _____.

   (1) Jawaharlal Nehru   (2) Vallabhbhai Patel   (3) Bharatiyar   (4) Gandhiji