

FOUNDATION PROGRAMME CLASS VII 27-12-2017
SCREENING CUM SCHOLARSHIP TEST

(Students who are studying in Class VI)

PHYSICS + CHEMISTRY + BIOLOGY + MATHS

Time : 120 minutes	Number of Questions : 100	Maximum Marks : 400
Name of the Candidate :		
Signature of Candidate :		
Phone Number / Mobile No. :		
Name of the School Studying :		
Class Studying :		Roll. No.
Test Centre:	Signature of Invigilator	

INSTRUCTIONS

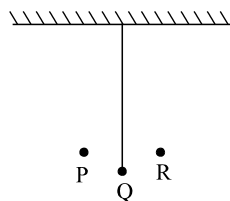
1. Please fill in the items such as name, signature, centre etc. of the candidate in the columns given above.
2. Please ensure question booklet code is printed on the top right corner of this page is same as in the OMR answer sheet.
3. This question booklet contains 100 questions. For each question, four answers are suggested and given against (A), (B), (C) and (D) of which, only one will be the **Most Appropriate Answer**. Mark the bubble containing the letter corresponding to the 'Most Appropriate Answer' in the OMR answer sheet, by using either **Blue or Black ball - point pen only**
4. Each correct answer will be awarded **FOUR** marks. **ONE** mark will be deducted for each **incorrect answer**. More than one answer marked against a question will be deemed as an incorrect response and will be negatively marked. No negative mark for unattended questions.
5. All the rough work is to be done in the blank space provided in the question paper.
6. **WARNING:** Any malpractice or any attempt of malpractice, in the Examination, will **DISQUALIFY THE CANDIDATE**.
7. **Return the answer sheet to the invigilator at the end of the examination.**

IMMEDIATELY AFTER OPENING THIS QUESTION BOOKLET, THE CANDIDATE SHOULD VERIFY WHETHER THE QUESTION BOOKLET ISSUED CONTAINS ALL THE 100 QUESTIONS IN SERIAL ORDER. IF NOT, REQUEST FOR REPLACEMENT

1. Light year is a unit used to measure which of the following?
A) Distance B) Velocity C) Time required D) Intensity
2. Which of the following material is most suitable for solar electrical cell?
A) Iron B) Silicon C) Steel D) Aluminium
3. The path along which light travels in a homogenous medium is called :
A) beam of light B) ray of light C) trace of light D) none of these
4. How long does it take for light from the sun to reach the earth?
A) 7 second B) 8 minutes C) 10 years D) 8 millisecond
5. For making a periscope, the number of mirrors needed is :
A) 1 B) 2 C) 3 D) 4
6. In an electric circuit, a switch is provided. The main function of switch is to :
A) make the bulb glow easily B) avoid electric shocks
C) allow easy flow of charges in the circuit D) make or break a circuit
7. Choose the best conductor of electricity :
A) Silver B) Copper C) Iron D) Lead
8. Name the cells in human body which act like electric wires :
A) Arteries B) Veins C) Neurons D) Skin
9. Two like charges :
A) repel each other B) attract each other
C) first repel and then attract D) first attract then repel
10. The conventional direction of an electric current is :
A) from excess electrons to deficient electrons
B) from deficient electrons to excess electrons
C) from high temperature to lower temperature
D) depend on the path

SPACE FOR ROUGH WORK

11. In the SI system of units, the unit of length is :
 A) metre B) kilometer C) Centimeter D) All of the above
12. Motion of a coin over a caroms board can be classified as ----- motion :
 A) Rectilinear B) Circular C) Periodic D) Rotatory
13. Which of the following is a combination of different types of motion?
 A) Motion of a moving cart B) Motion of wheel of sewing machine
 C) Motion of ball rolling on ground D) None of these
14. Unit used for expressing the area is :
 A) m B) m^2 C) m^3 D) All of the above
15. Select the one that records the distance travelled by a vehicle :
 A) Manometer B) Speedometer C) Odometer D) None of these
16. In circular motion :
 A) Direction of motion is fixed B) Direction of motion changes continuously
 C) Acceleration is zero D) Velocity is constant
17. Which of the following objects does not have more than one type of motion?
 A) Screw B) rolling ball C) Scooter's wheel D) Child on a seesaw
18. The system of standard units and measurements that has been accepted all over the world is :
 A) International system of units B) SI system of units
 C) Both A & B D) Metric system
19. Thousandth part of a metre is :
 A) Centimetre B) millimetre C) kilometer D) none of these
20. Which of these represents one complete oscillation of the pendulum shown here :



- A) PQR B) PQQP C) QRRP D) PQRRQP

SPACE FOR ROUGH WORK

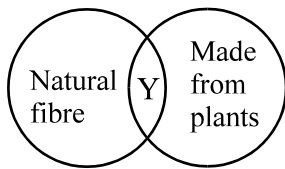
21. Which is a non-luminous body?
 A) sun B) moon C) stars D) none of these
22. A translucent substance :
 A) Allows most of the light to pass through it B) Allows a part of light to pass through it
 C) does not allow light to pass through it D) none of the above
23. In a pinhole camera, the image formed is :
 A) erect B) inverted C) smaller D) larger
24. Which of the following is/are needed for the formation of a shadow?
 A) source of light B) an opaque object C) screen D) all of the above
25. Image formed on the surface of water is :
 A) erect B) inverted C) larger D) smaller
26. Which of these do you think traps the most air?
 A) Nylon B) Cotton C) Leather D) Wool
27. The process of arranging two sets of yarns together to make a fiber is
 A) Spinning B) Weaving C) Ginning D) Knitting
28. Which of these products is not usually made of knitted fabric?
 A) Socks B) Cardigans C) Towels d) Swimming costume
29. Aluminium metal is a
 A) Poor conductor B) Non-magnetic material
 C) Magnetic material D) Soluble in water
30. A student has been assigned with the task to separate the oil from water. He would go for which of the following separation process?
 A) Filtration B) Distillation C) Decantation D) Condensation
31. Choose correct sequence of the process used for obtaining salt from sea water?
 A) Collection of water → Evaporation → Crystallisation
 B) Collection of water → Condensation → Evaporation
 C) Collection of water → Crystallisation → Condensation
 D) Collection of water → Evaporation → Condensation

SPACE FOR ROUGH WORK

32. In filtration the term filtrate refers to
 A) The solid that remains on the filter paper
 B) The liquid that drains through the filter paper
 C) The type of filter paper used
 D) The mixture before separation
33. A solution is prepared by adding sugar crystals to water. After complete dissolution some sugar crystals left behind. The solution is
 A) Saturated solution
 B) Unsaturated solution
 C) Clear solution
 D) Suspension
34. On keeping ice pieces in a glass tumbler, lots of water droplets are observed on the surface of the tumbler. This is due to
 A) Evaporation
 B) Sedimentation
 C) Decantation
 D) Condensation
35. Choose the correct alternative muddy water: sedimentation, Butter from milk
 A) Filtration
 B) Churning
 C) Sublimation
 D) Evaporation
36. Jute fiber is obtained from which part of the jute plant
 A) Root
 B) Stem
 C) Leaves
 D) Flowers
37. Separating the cotton from the cotton bolls by combing is known as
 A) Spinning
 B) Ginning
 C) Weaving
 D) Knitting
38. Dividing materials in groups is done
 A) For convenience
 B) For easily observing any pattern in their properties
 C) For both the above
 D) Neither for A nor for B
39. Find the odd one out
 A) Ploughing
 B) Hand picking
 C) Winnowing
 D) Threshing
40. Statement 1 – In India jute is mainly grown in West Bengal, Bihar, Assam
 Statement 2 – Jute plant is normally harvested when it is at flowering stage
 A) Both statements are correct
 B) Both statements are true
 C) Statement I is correct
 D) Statement II is correct

SPACE FOR ROUGH WORK

41. Identify Y in the given Venn Diagram



- A) Silk B) Rubber C) Cotton D) Nylon

42. Mahatma Gandhi popularized the charkha as part of the independence movement. He encouraged people to wear

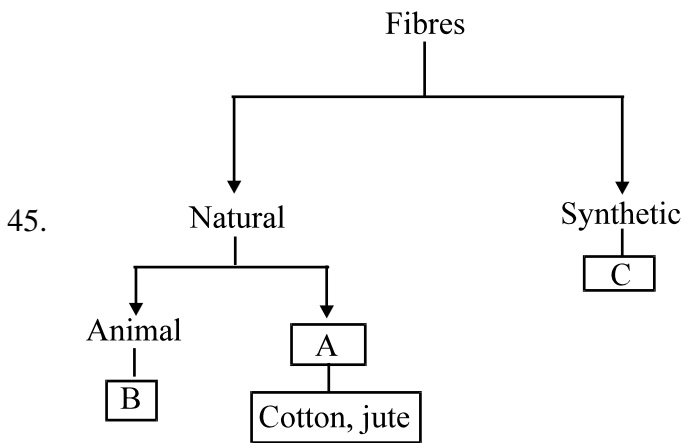
- A) Imported clothes B) Indian clothes
C) Home spun yarn clothes D) Both A and C

43. A material which does not dissolve completely in water is

- A) Soluble B) Insoluble C) Opaque D) Translucent

44. The material which has luster

- A) iron B) Wood C) Rubber D) Plastic

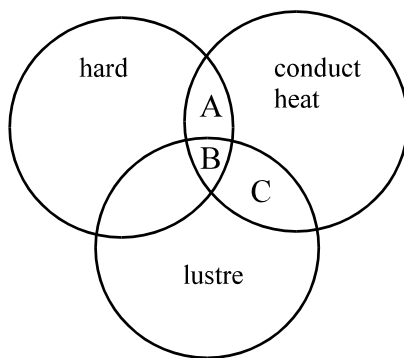


Which of the following is correct option for C?

- A) Wool B) Flax C) Dacron D) Both A and B

SPACE FOR ROUGH WORK

46. Which of the following help us to choose a material for making an object?
- Some properties of the material
 - Purpose for which we want to use the object
 - Both the properties of the material and the purpose for which the object is to be used
 - None of these
47. Mahesh and Roshan got a chance to visit a ship but Mahesh was afraid to go on ship. He said that ship being heavier in weight will sink in the water but Roshan said it will float on water. With whom do you agree and why?
- Mahesh, as ship is heavy in weight
 - Roshan, as ship is light in weight
 - Roshan, because ship floats because of its shape and buoyancy
 - Mahesh as ship can't bear weight of the people on it



Which of the following represent 'B'?

- A) Wooden bowl B) Gold jewellery C) Silver anklet D) Both B and C
49. An iron smith, lack out for freshly cut surfaces of metal rods to see if they have lustre. What other process can be used to see if a material has lustre or not?
- Heat the material
 - Wash the material with water
 - Rub the surface of material with sand paper
 - Allow the material to remain exposed to air for some time

SPACE FOR ROUGH WORK

50. Historians believe that cotton clothes were 1st worn in
 A) India B) Egypt C) China D) Europe
51. How many bones does the giraffe have in its long neck?
 A) 7 B) 17 C) 6 D) 5
52. The main source of water in the world :
 A) Ocean B) River C) Spring D) Well
53. Match the following :
 i) Process of changing of water into its vapour a) Transpiration
 ii) Plants release water in the form of water vapour b) Evaporation
 to the atmosphere through stomata
 iii) The process of changing water vapour into water c) Condensation
 A) a - i ; b - ii ; c - iii B) a - ii ; b - i ; c - iii C) a - iii ; b - i ; c - ii D) a - ii ; b - iii ; c - i
54. Identify the statements that are correct :
 1) By eating rice alone, we can fulfil the nutritional requirement in our body
 2) Deficiency diseases can be prevented by eating a balanced diet
 3) A balanced diet for the body should contain a variety of food items
 4) Meat alone is sufficient to provide all nutrients to the body
 A) 1, 2 and 3 B) 2 only C) 1 and 2 D) 3 only
55. In which of the following case evaporation of water will be slowest?
 A) A tray of water kept in sunlight
 B) A kettle of water kept on a burner
 C) A glass of water kept in a room
 D) A bucket of water kept on roof top
56. “Catch water where it falls” is the basic idea behind
 A) Recycling of water B) Making dams to store water
 C) Rain water harvesting D) Condensation of water vapour

SPACE FOR ROUGH WORK

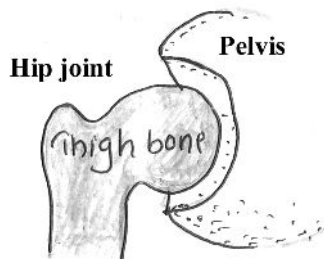
57. An iron ring is heated, which of the following statement about it is incorrect?
- A) The ring expands
 - B) The ring almost comes to the same size on cooling
 - C) The change in this case is reversed
 - D) The ring changes its shape and the change cannot be reversed
58. Given below are the steps to test the presence of proteins in a food item :
- (i) Take a small quantity of the food item in a test tube, add 10 drops of water to it and shake it
 - (ii) Make a paste or powder of food to be tested
 - (iii) Add 10 drops of caustic soda solution to the test tube and shake well
 - (iv) Add 2 drops of copper sulphate solution to it
- Which of the following is the correct sequence of the steps?
- A) (i), (ii), (iv), (iii)
 - B) (ii), (i), (iv), (iii)
 - C) (ii), (i), (iii), (iv)
 - D) (iv), (ii), (i), (iii)
59. Which of the following joints is immovable :
- A) Shoulder and arm
 - B) Knee and joint
 - C) Upper jaw and skull
 - D) Lower jaw and upper jaw
60. Which of the following is not a correct match :
- A) Petiole - Attaches leaf to stem
 - B) Lamina - Green flat part of leaf
 - C) Margin - Gives shape to the leaf
 - D) Veins - Transpiration
61. Which of these plants store food in their stems?
- A) Sweet potato
 - B) Potato
 - C) Tapioca
 - D) Turnip
62. Name the parts of a pistil :
- A) Stigma, Filament, Style
 - B) Stigma, Ovary, Filament
 - C) Stigma, Stamen, Style
 - D) Stigma, Style, Ovary

SPACE FOR ROUGH WORK

63. Match the items given in column A with that in column B
- | Column A | Column B |
|--------------------------------------|--------------------------------------|
| [Food item] | [Ingredients] |
| a) Idli | i) Milk, Rice, Sugar |
| b) Chicken curry | ii) Rice, Urad dal, Salt, Water |
| c) Kheer | iii) Atta, Water |
| d) Roti / Chapati | iv) Chicken, Spices, Oil, Water |
| A) a - ii ; b - iv ; c - i ; d - iii | B) a - i ; b - iv ; c - ii ; d - iii |
| C) a - ii ; b - iv ; c - iii ; d - i | D) a - iii ; b - iv ; c - ii ; d - i |
64. Food items rich in carbohydrates are :
- | | |
|---------------------------|----------------------------|
| A) Sugar, Wheat, Rice | B) Pulses, Gram, Soyabeans |
| C) Ghee, Peanuts, Almonds | D) Butter, Fish, Meat |
65. Which of the following statements is wrong?
- A) Fat soluble vitamins are A, B, E, K
 B) Vitamin C is obtained from citrus fruits
 C) Ascorbic acid is also called as vitamin C
 D) Beri - Beri is caused by the deficiency of vitamin B₁
66. Which vitamin is obtained from sun light :
- | | | | |
|--------------|--------------|--------------|--------------|
| A) Vitamin A | B) Vitamin D | C) Vitamin C | D) Vitamin E |
|--------------|--------------|--------------|--------------|
67. Iodine solution is used for the detection of -----
- | | | | |
|-------------|------------------|--------|------------|
| A) Proteins | B) Carbohydrates | C) Fat | D) Vitamin |
|-------------|------------------|--------|------------|
68. Bleeding gums (scurvy) is due to the deficiency of :
- | | | | |
|--------------|--------------|--------------|--------------|
| A) Vitamin C | B) Vitamin A | C) Vitamin B | D) Vitamin D |
|--------------|--------------|--------------|--------------|
69. Example for carnivores :
- | | | | |
|---------|---------|----------------|---------|
| A) Wolf | B) Crow | C) Cockroaches | D) Deer |
|---------|---------|----------------|---------|

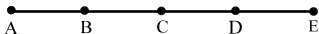
SPACE FOR ROUGH WORK

70. From the following, identify the changes that cannot be reversed :
- A) Wet clothes to dry clothes B) Cold milk to hot milk
 C) Stretched rubber band to its normal size D) Milk to paneer
71. Joint which allows movements only in one plane is known as :
- A) Ball and socket joint B) Gliding joint C) Pivot joint D) Hinge joint
72. How many bones are present in infants
- A) 308 B) 306 C) 304 D) 309
73. Select incorrect match :
- A) Ball and socket joint - Shoulder joint B) Hinge joint - Tarsals in ankle
 C) Pivot joint - Atlas and axis vertebrae D) Gliding joint - Carpal in wrist
74. Which type of joint is given below :



- A) Ball and socket joint B) Hinge joint C) Pivot joint D) Angular joint
75. Wings are modified :
- A) Limbs B) Forelimbs C) Hind limbs D) Shoulder joint
76. Which of the following statements is incorrect?
- A) Every parallelogram is a quadrilateral B) Every rectangle is a parallelogram
 C) Every rhombus is a parallelogram D) Every trapezium is a parallelogram

SPACE FOR ROUGH WORK

77. The interior angle of regular polygon exceeds its exterior angle by 60° . The name of this polygon is?
 A) pentagon B) hexagon C) decagon D) octagon
78. Number of line segments in figure is

 A) 5 B) 10 C) 15 D) 20
79. Which of the following statement(s) is/are true?
 A) In a trapezium the diagonals bisect each other
 B) In a rectangle diagonals intersect at right angles
 C) The diagonals of a rhombus are equal
 D) None of these
80. Which of the following figure has only two lines of symmetry?
 A) A scalene triangle B) An isosceles triangle
 C) A rectangle D) An equilateral triangle
81. The salaries of A and B are in the ratio 8 : 3. The salaries of B and C are in the ratio 5 : 12. Salaries of A, B and C in the form of a ratio is
- A) 8 : 15 : 12 B) 8 : 40 : 36 C) 16 : 15 : 36 D) 40 : 15 : 36
82. Find the number of pages in a book which has on an average 207 words on a page and contains 201411 words altogether.
 A) 973 B) 971 C) 972 D) 974
83. Find the HCF of 219, 2628, 2190 and 8833.
 A) 73 B) 71 C) 59 D) 63
84. How many whole numbers are there between 3 and 23?
 A) 18 B) 19 C) 20 D) 21
85. Subtract the sum of 998 and -486 from the sum of -290 and 732.
 A) -68 B) -69 C) -70 D) -71

SPACE FOR ROUGH WORK

86. Find two consecutive integers between which the rational number $\frac{29}{4}$ lies.
- A) 5 and 6 B) 6 and 7 C) 7 and 8 D) None of these
87. How many times does the digit “1” appear in numbers from 1 to 100?
- A) 18 B) 19 C) 20 D) 21
88. The difference of L.C.M and H.C.F of the numbers 40, 240 and 480 is equal to twice a number. Find the number.
- A) 340 B) 440 C) 220 D) 880
89. A and B are two positive integers such that $AB = 64$. Which of the following is not the correct value of $A + B$?
- A) 65 B) 16 C) 35 D) 20
90. If remainder of a division is greater than 0 then the quotient of complete division is a/an?
- A) Decimal number B) Whole number C) Composite number D) All of these
91. The greatest possible rate at which a man can walk 68 km, 102 km and 51 km in exact number of days is
- A) 16 km B) 15 km C) 14 km D) 17 km
92. If z is the HCF of x and y, when the HCF of $\frac{x}{z}$ and $\frac{y}{z}$ is
- A) x B) y C) z D) 1
93. Set of three prime numbers is called a prime triplets, which of the following is a prime triplet?
- A) (2, 4, 5) B) (7, 9, 13) C) (5, 7, 11) D) (2, 3, 8)

SPACE FOR ROUGH WORK

94. Maximum number of zeroes of a polynomial is equal to its
- A) Degree B) Term C) Coefficient D) Factor
95. Think of an even number $2x$, then the previous even number is
- A) $2x - 1$ B) $2x + 1$ C) $2x + 2$ D) $2x - 2$
96. If $a = 3$, $b = 5$, $c = b - a$, then which of the following expressions represent 10?
- A) $(a + c) \times b$ B) $(a + b) - c$ C) $(b + c) + a$ D) $(a - b) + c$
97. The sum of two numbers is 19 and one of the numbers is one more than twice the other. Represent this statement in the form of an equation using variable x .
- A) $x(2x + 1) = 19$ B) $x + (2x + 1) = 19$ C) $x + (2x - 1) = 19$ D) $x \div (2x - 1) = 19$
98. The product of two numbers is 22500. If one of the numbers is 150. Find the half of the other.
- A) 175 B) 75 C) 85 D) 95
99. A quadrilateral in which diagonals are equal and bisect each other perpendicularly is a
- A) Square B) Rhombus which is not a square
C) Rectangle which is not a square D) None of these
100. How many complete turns is equivalent to 90° ?
- A) 2 B) 1 C) $\frac{1}{2}$ D) $\frac{1}{4}$

SPACE FOR ROUGH WORK

Name



Batch..... Roll No.

27- 12- 2017

CLASS VII (VI STUDYING) - KEY

PHYSICS

- 1. A
- 2. B
- 3. B
- 4. B
- 5. B
- 6. D
- 7. A
- 8. C
- 9. A
- 10. B
- 11. A
- 12. A
- 13. C
- 14. B
- 15. C
- 16. B
- 17. D
- 18. C
- 19. B
- 20. D
- 21. B
- 22. B
- 23. B
- 24. D
- 25. A

CHEMISTRY

- 26. C
- 27. B
- 28. C
- 29. B
- 30. B
- 31. A
- 32. B
- 33. A
- 34. D
- 35. B
- 36. B
- 37. B
- 38. C
- 39. A
- 40. B
- 41. C
- 42. C
- 43. B
- 44. A
- 45. C
- 46. C
- 47. C
- 48. D
- 49. C
- 50. B

BIOLOGY

- 51. A
- 52. A
- 53. B
- 54. B
- 55. C
- 56. C
- 57. D
- 58. B
- 59. C
- 60. D
- 61. B
- 62. D
- 63. A
- 64. A
- 65. A
- 66. B
- 67. B
- 68. A
- 69. A
- 70. D
- 71. D
- 72. B
- 73. B
- 74. A
- 75. B

MATHEMATICS

- 76. D
- 77. B
- 78. B
- 79. D
- 80. C
- 81. D
- 82. A
- 83. A
- 84. B
- 85. C
- 86. C
- 87. D
- 88. B
- 89. C
- 90. A
- 91. D
- 92. D
- 93. C
- 94. A
- 95. D
- 96. C
- 97. B
- 98. B
- 99. A
- 100. D