



Brilliant STUDY CENTRE

PALA

FOUNDATION PROGRAMME CLASS VIII 01-11-2020
SCREENING CUM SCHOLARSHIP TEST

(Students who are studying in Class VII)

PHYSICS + CHEMISTRY + BIOLOGY + MATHEMATICS

Name of the Candidate :	
Mobile No. :	
E-mail Id :	
Class & Name of the School Studying :	
Roll number :	

INSTRUCTIONS

1. Please ensure stable internet connection before the commencement of the examination.
2. As this is an online exam please ensure that you have entered the personal and exam details without fail and ensure that there are 100 questions in your format.
3. The students may attend the exam from home or any other convenient place
4. Blank paper, clipboard, slide rules etc can be used for rough work.
5. Ensure that the candidate is not communicating with any other person throughout the exam duration.
6. Electronic gadgets in any form are not allowed to be used during the exam time.
7. The steady presence of the candidate in front of the system is absolutely necessary.
8. Presence of any other person near the system will not be allowed.
9. Each question has 4 possible options, of which only one is deemed as the most appropriate.
YOU ARE ASKED TO SELECT THE MOST APPROPRIATE OPTION AS THE CORRECT ANSWER.
10. Each correct answer will be awarded **FOUR** marks and one mark will be deducted for each incorrect answer. No negative marks for unattended questions.
11. Kindly be noted that your movements will be monitored under a proctoring suite and any malpractice will automatically result in the termination of the examination.

1. One metre has 10 equal parts called
A) millimeters B) centimeters C) decimeters D) nanometers
2. Standard (SI) unit of length is
A) metre B) centimetre C) inches D) Kilometre
3. The shape of a shadow depends on which of the following
A) shape of the opaque object B) colour of screen
C) colour of the object D) all of these
4. Shadows are
A) Always smaller than the opaque object B) Always bigger than the opaque object
C) Remains the same size as opaque object D) Can be smaller or bigger than the opaque object
5. Objects that emit light on their own are called
A) Ligth objects B) Luminous bodies
C) Non-Luminous bodies D) Opaque bodies
6. If we are able to see anything through an object, then such an object is said to be aobject
A) transparent B) translucent C) opaque D) none of these
7. A.....eclipse occurs when earth comes between sun and moon in a straight line
A) solar B) lunar C) shadow D) none of these

SPACE FOR ROUGH WORK

8. Materials which allow current to pass through them easily are called?
A) Insulators B) Conductors C) Switch D) Battery
9.are materials that do not allow electric current to pass through them
A) Insulators B) Conductors C) Switch D) Battery
10. Device which maintains current in a circuit
A) Insulators B) Conductors C) Switch D) Battery
11. A.....is an instrument used for observing objects from a hidden position
A) telescope B) microscope C) periscope D) kaleidoscope
12. A simple device that is used to either break or complete the electric circuit, is called
A) Switch B) Terminal C) Current D) Conductor
13. Which one of the following statement is false?
A) Rubber is a bad conductor of electricity
B) In general metals are good conductor of electricity
C) Our body is a bad conductor of electricity
D) The bulb glows only when current flows through the circuit
14. Which one of the following will allow electric current to pass through?
A) Eraser B) Matchstick C) Plastic comb D) Iron Nail
15. An electric cell hasterminals
A) One B) Two C) Three D) Four

SPACE FOR ROUGH WORK

16. When a magnet is suspended freely in air with the help of string, it aligns itself indirection
A) South-West B) North-East C) East-West D) North-South
17. Which of the following is a non-magnetic material?
A) Nickel B) Wood C) Iron D) Cobalt
18. Device used to measure electric current is
A) Volt meter B) Ammeter C) Current meter D) Barometer
19. Which is a correct relationship?
A) 1 m = 100 cm B) 1 cm = 100 mm C) 1 km = 100m D) all of these
20. An example of rectilinear motion is
A) apple falling from a tree B) motion of a car on straight road
C) a spinning top D) both A and B
21. When an opaque object comes in the path of light it forms
A) an image with colours B) shadow
C) black and white image D) depends on the colour of the light
22. Bouncing back of light from shining surfaces is called
A) Reflection B) Refraction C) Bending D) Dispersion
23. Which letters of English alphabet will not show lateral inversion?
A) O,X,U B) N,Z,X C) I, X, E D) A,E,I

SPACE FOR ROUGH WORK

24. Cell is a device which
- A) converts chemical energy into electrical energy
 - B) electrical energy into light energy
 - C) electrical energy into magnetic energy
 - D) none of these
25. A rectangular rod always attracts another rod B. Then which of the following is possible
- A) Both A and B are magnets
 - B) Neither A nor B is a magnet
 - C) A is a magnet and B is an iron rod
 - D) None of the above are correct
26. Technique used to separate grains from stalks is
- A) Hand picking
 - B) Threshing
 - C) Winnowing
 - D) Sieving
27. Mixture of salt and iron powder is separated by
- A) Hand picking
 - B) Magnetic separation
 - C) Sieving
 - D) Churning
28. Alum is used in
- A) Loading
 - B) Filtration
 - C) Evaporation
 - D) Distillation
29. The process used for separating constituents while preparing fruit juice is
- A) Condensation
 - B) Evaporation
 - C) Threshing
 - D) Filtration

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30. The difference between sieving and filtration is of
A) Size of particles B) Phase of particles C) Density D) None of these
31. Which materials were used for clothes in ancient times?
A) Animal skins B) Grass C) Vines D) All of these
32. Fabric can be made from yarn by the process
A) Knitting B) Spinning C) Weaving D) Both A and C
33. What is the process of removing seeds from cotton called?
A) Knitting B) Retting C) Ginning D) Seeding
34. Wool is a/an
A) Fibre obtained from cocoon B) Artificial fibre
C) Animal fibre D) Plant fibre
35. Process of removing hairs of a sheep is called
A) Weaving B) Shearing C) Spinning D) Ginning
36. The stage in life cycle of an insect excludes
A) Pupa B) Caterpillar C) Sericulture D) None of these
37. Which of the following is lustrous?
A) Iron B) Sulphur C) Wood D) Glass
38. Which of the following is insoluble in water?
A) Sugar B) Salt C) Kerosene D) Oxygen

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39. Which of the following allow/s light to pass through it?
A) Transparent B) Translucent C) A and B both D) Opaque
40. An example of a periodic change is
A) Swinging of a clock pendulum B) Landslides during rains
C) Rusting of iron D) Sneezing
41. An example of a chemical change is
A) Exposure of a photographic plate B) tearing of paper
C) Melting of sulphur D) Formation of dew
42. Which of the following is not a reversible change?
A) Boiling of water B) Melting of wax C) Boiling of egg D) Boiling of alcohol
43. In fusion of ice cube, heat gained causes
A) Ice to melt B) Increase temperature C) Release energy D) None of these
44. When a substance gains heat, temperature?
A) Increases B) Decreases C) Remain same D) None of these
45. Which of the following statements is correct?
1. Formation of water from hydrogen and oxygen is a physical change
2. Bending of a wire is only a change in its size
3. The lightening of a match stick is a fast chemical change
A) Only 1 B) Only 2 C) Only 3 D) All 1, 2 and 3

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46. The making of a ring from pure gold is a _____ change while making of a statue from wood is/an _____ change:
- A) Reversible, irreversible
B) Chemical, physical
C) Periodic changes
D) Undesired changes
47. Water is called universal solvent because
- A) It can dissolve all the liquids in the universe
B) It dissolve all the gases in the universe
C) It dissolve large number of solids, liquids and gases
D) None of these
48. Which of the following will not help in conservation of water?
- A) Drip irrigation
B) Planting more trees
C) Water treatment plants
D) Cutting trees to check water loss to transpiration
49. Carefull management of water means
- A) More desertification
B) More deforestation
C) Less wasting of water
D) More wasting of water
50. Which of the following substances has fixed mass, fixed volume but no fixed shape?
- A) Aluminium foil B) Nitrogen C) Fruit juice D) Ice

SPACE FOR ROUGH WORK

51. Given below are names of some animals.

- (i) Goat (ii) Human beings (iii) Cockroach (iv) Eagle

Which of the above animals form a pair of omnivores?

- A) (i) and (ii) B) (ii) and (iii) C) (iii) and (iv) D) (ii) and (iv)

52. Honeybee makes honey from

- A) pollen B) petals C) nectar D) bud

53. Below are names of some animals.

- (i) Cow (ii) Sheep (iii) Horse (iv) Ox

Which of the above are sources of milk for human beings?

- A) (i) and (iii) B) (i) and (ii) C) (ii) and (iii) D) (iii) and (iv)

54. Given below is a list of edible plants.

- (i) Banana (ii) Drumstick tree (iii) Lady's finger (iv) Brinjal

Which pair of plants have two or more edible parts?

- A) (i) and (ii) B) (ii) and (iii) C) (iii) and (iv) D) (i) and (iv)

55. The part of a banana plant not used as food is

- A) flower B) fruit C) stem D) root

56. Which part of a mustard plant is edible?

- A) Seeds and flowers B) Leaves and flowers C) Seeds only D) Stem and roots

SPACE FOR ROUGH WORK

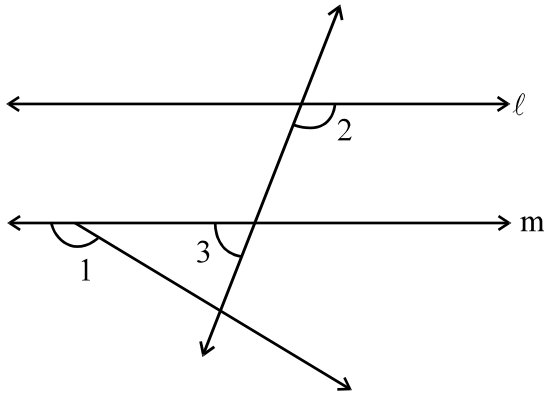
63. Carbohydrates can be tested by using.
A) Iodine solution B) Caustic soda C) Fehling's solution D) Copper sulphate
64. Which of the following combination of features would you observe in grass?
A) Parallel venation and fibrous root B) Parallel venation and tap root
C) Reticulate venation and fibrous root D) Reticulate venation and tap root
65. Which of the following is the correct match between the characteristics of stem and the category of plant?
A) Weak stem which cannot stand upright: Creeper
B) Green tender stem: Shrub
C) Thick, hard stem with branching near the base: Tree
D) Thick, hard stem with branches high on the plant: Herb
66. 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
67. Read the following sentences about photosynthesis.
(i) Sunlight, carbon dioxide, chlorophyll and water are necessary.
(ii) Oxygen is absorbed.
(iii) Leaves carry out photosynthesis.
(iv) Proteins are made during photosynthesis.
Choose the correct pair of sentences that are true to photosynthesis.
A) (iii) and (iv) B) (i) and (iii) C) (ii) and (iv) D) (i) and (iv)

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75. Skeleton of human body is made up of
- A) Bones
B) Cartilage
C) Bones and cartilage
D) Bones, cartilage and muscles.
76. Find $0.36 \div 0.6 + 3 - 9$
- A) 0
B) -5.4
C) 6.6
D) 8.54
77. The value of $27 - [46 - \{30 - (8 - 2)3\}]$ is
- A) 0
B) -7
C) -3
D) 3
78. Arrange the fraction in ascending order, $\frac{3}{8}, \frac{5}{6}, \frac{6}{8}$ and $\frac{2}{4}$
- A) $\frac{3}{8} < \frac{2}{4} < \frac{6}{8} < \frac{5}{6}$
B) $\frac{3}{8} < \frac{6}{8} < \frac{2}{4} < \frac{5}{6}$
C) $\frac{2}{4} < \frac{3}{8} < \frac{5}{6} < \frac{6}{8}$
D) $\frac{5}{6} < \frac{3}{8} < \frac{6}{8} < \frac{2}{4}$
79. The H.C.F and L.C.M of two numbers are 24 and 32 respectively. Then product of the numbers is
- A) 64
B) 32
C) 256
D) 768
80. What is the smallest 4 digit number which is divisible by 18, 24 and 32?
- A) 1152
B) 1252
C) 1138
D) 1132
81. If $x : y = 7 : 8$, then $(6x - 2y) : (5x + 3y)$ is
- A) 24 : 61
B) 26 : 59
C) 31 : 66
D) 24 : 59

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82. Which of the following are in proportions?
 A) 46, 68, 72, 83 B) 72, 84, 96, 108 C) 33, 44, 66, 88 D) 21, 32, 43, 55
83. A building cast a shadow of length 20 metre at a time when a tree 6 metres high cast a shadow of length 8 metres. Find the height of the building
 A) 10 m B) 12 m C) 15 m D) 18 m
84. If Rs.510 be divided among A, B, C in such a way that A gets $\frac{2}{3}$ of what B gets and B gets $\frac{1}{4}$ of what C gets, then C gets ?
 A) Rs.120 B) Rs.240 C) Rs.150 D) Rs.360
85. In figure ℓ and m are parallel lines angle $\angle 1 = 120^\circ$ and $\angle 2 = 100^\circ$, find $\angle 3$?



- A) 80° B) 120° C) 100° D) 60°
86. Which of the following are coprime pairs?
 A) 33, 18 B) 34, 51 C) 27, 125 D) 4, 18

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87. In Roman numerals : L X L X + XCVIII is same as

- A) 177 B) 167 C) 215 D) 314

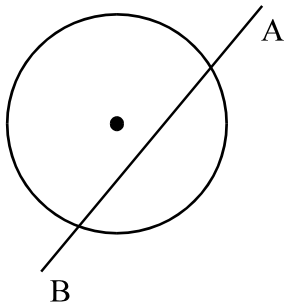
88. Which of the following statement is true?

- A) Zero is the smallest natural number B) All whole numbers are natural number
C) 1 is the smallest whole number D) A, B, C are wrong

89. Which of the following statement is false?

- A) All even numbers are composite numbers
B) The sum of two odd numbers and one even numbers is even
C) The products of three odd numbers is odd
D) 1 is the only one common factor of co-primes

90.



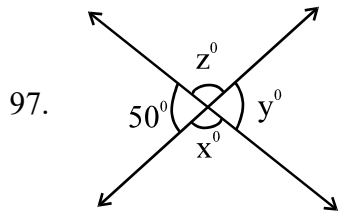
The line AB is called

- A) Chord B) Secant C) Tangent D) Diameter

SPACE FOR ROUGH WORK

91. The ratio of one hour 45 minutes to 2 hours is
 A) 3 : 4 B) 5 : 7 C) 7 : 8 D) 6 : 7
92. A student multiplied 3759 by 231 instead of multiplying by 213. How much was his product greater than the correct product ?
 A) 66762 B) 76672 C) 67662 D) 76662
93. Find $A + B + C + D + E$ if
- $$\begin{array}{r} 41A87 \\ 1B432 \\ +253C9 \\ \hline D460E \end{array}$$
- A) 58 B) 38 C) 42 D) 48
94. Simplify $36 \div [5 + \{4 \times 5 \div 2\}]$
 A) $3 \frac{3}{5}$ B) $2 \frac{2}{5}$ C) $4 \frac{3}{5}$ D) $3 \frac{2}{5}$
95. The name of the property used in $27 \times (-3 + 4) = 27 \times -3 + 27 \times 4$ is :
 A) Commutative B) Distributive C) Associative D) Existency of identity
96. What is supplementary angle of 80° ?
 A) 280° B) 10° C) 100° D) -80°

SPACE FOR ROUGH WORK



Find $x + y + z$

- A) 120° B) 230° C) 250° D) 310°
98. The angle which is equal to its complement?
- A) 90° B) 0° C) 180° D) 45°
99. Out of 30 students in a class, the ratio of boys and girls is 2 : 3. Find the number of girls
- A) 20 B) 18 C) 21 D) 19
100. The sum of factor of 36 is
- A) 54 B) 90 C) 91 D) 53

SPACE FOR ROUGH WORK

FOUNDATION - CLASS VIII (STUDYING VII) - KEY

PHYSICS

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

CHEMISTRY

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

BIOLOGY

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

MATHEMATICS

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