



Brilliant STUDY CENTRE

PALA

FOUNDATION PROGRAMME CLASS VIII 16-10-2021
MOCK 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
8. Materials which allow current to pass through them easily are called?
A) Insulators B) Conductors C) Switch D) Battery

SPACE FOR ROUGH WORK

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 of the following is not a fundamental unit?
A) Metre B) Kilogram C) Kelvin D) Cubic metre
14. In an object moves such that its distance from a fixed point remains the same.
A) translatory motion B) rectilinear motion C) circular motion D) curvilinear motion
15. The height of a person is 1.65m express the height in cm
A) 165 cm B) 1650 cm C) 16.5 cm D) 1.65 cm
16. While measuring the length of a kerchief, the reading of the scale at one end is 2.0 cm and at the other end is 33.1 cm. What is the length of the kerchief?
A) 33.1cm B) 31.1cm C) 30.1cm D) 29.1cm
17. Which of the following does not involve combination of motion?
A) Earth B) Pendulum C) Bike D) Rolling ball
18. The light that is reflected from a compact disc (CD) consists of
A) Seven colours B) Five colours C) Eight colours D) Three colours

SPACE FOR ROUGH WORK

25. A non luminous body can be made luminous by
 A) cooling it B) melting it
 C) heating it D) evaporating it
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
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

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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 sequences is correct in making fabric?
- A) Weaving - Ginning - Spinning
B) Ginning - Spinning - Weaving
C) Spinning - Weaving - Ginning
D) Ginning - Weaving - Spinning
39. Which of the following fibres on burning smells like burning hair
- A) Cotton B) Flux C) Wool D) Jute
40. Complete the given correlation?
Silk : Cocoon wool : ?
- A) Hair of Rabbit B) Cotton plant
C) Fleece of sheep D) Jute of hemp

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41. Which of the following is not a synthetic fibre?
A) Polyester B) Nylon C) Wool D) Acrylic
42. Which part of the cotton plant yields cotton bolls?
A) Leaf B) Fruit C) Seed D) Flower
43. Choose the material from the following which is not soluble in water
A) Sugar B) Common salt C) Wax D) Washing soda
44. Choose the substances from the following which can float in the water
A) Gold B) Silver C) Wood D) Glass
45. Which of the following materials is hard, opaque and shiny?
A) Rubber B) Wood C) Tin D) Plastic
46. What is the criteria on which the process of classification of substance, is based on?
A) Similarities B) Difference
C) Inter relationships D) All the above
47. Which of the following substances dissolve in water?
A) Vinegar B) Kerosene oil
C) Petrol D) All of these
48. X is a separation technique based on the difference in weights of the solids in a solid - solid mixture. What is X?
A) Sieving B) Handpicking
C) Threshing D) Winnowing

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49. Identify the mixture from the following

- A) Oxygen B) Carbondioxide C) Hydrogen D) Air

50. Which of the following is an example of a solid-in-gas mixture?

- A) Soil B) Smoke C) Moisture D) Dew

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

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56. Which part of a mustard plant is edible?
A) Seeds and flowers B) Leaves and flowers C) Seeds only D) Stem and roots
57. Which one of the following food item does not provide dietary fibre?
A) Whole grains B) Whole pulses C) Fruits and vegetables D) Milk
58. Which of the following sources of protein is different from others?
A) Peas B) Gram
C) Soyabeans D) Cottage cheese (paneer)
59. Which of the following nutrients is not present in milk?
A) Protein B) Vitamin C C) Calcium D) Vitamin D
60. Read the food items given below.
(i) Wheat (ii) Ghee (iii) Iodised salt (iv) Spinach (palak)
Which of the above food items are "energy giving foods"?
A) (i) and (iv) B) (ii) and (iv) C) (i) and (ii) D) (iii) and (iv)
61. 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

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62. The food components needed by our body are called.
A) Ingredients B) Nutrients C) Fragments D) None of these
63. ----- are known as the 'body building food' :
A) Carbohydrates B) Fats C) Proteins D) Vitamin
64. Deficiency of vitamin B₁ causes the disease :
A) Rickets B) Scurvy C) Goiter D) Beriberi
65. Given below are the symptoms of one disease. Identify the disease and deficient vitamin / mineral :
i) Glands in the neck appear swollen
ii) Mental disability in children
A) Scurvy, Vitamin C B) Rickets, Vitamin D C) Anaemia, Iron D) Goiter, Iodine
66. Deficiency disease can be prevented by eating :
A) Vitamin rich food B) fatty food C) Balanced diet D) Protein rich food
67. The waste that can't be used for the preparation of compost are :
A) Paper B) Vegetable waste C) Plastic D) Coconut husk
68. The appropriate method for the disposal of plastic is :
A) Land fill B) Recycling C) Burning D) Compost
69. Converting plant and animal waste into manure is :
A) Recycling B) Landfill C) Compost D) None of the above
70. Leaves give out excess water through the process of :
A) Guttation B) Transpiration C) Respiration D) Evaporation

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71. Venation is :
- A) Pattern of leaves on petiole
 B) Pattern of veins on leaf
 C) Pattern of sepals in a flower
 D) Pattern of petals in a flower
72. Parts of a pistil includes :
- A) Stigma
 B) Style
 C) Ovary
 D) All of these
73. Plants with weak stems that can't stand upright but spread on the ground are :
- A) Climbers
 B) Creepers
 C) Herbs
 D) None of the above
74. Plants are grouped into herbs, shrubs and trees based on :
- A) Nature of stem
 B) Height
 C) Colour
 D) All except C
75. The number of bones present in an adult human body :
- A) 305
 B) 265
 C) 206
 D) 308
76. How many whole numbers are there between 32 and 53?
- A) 25
 B) 22
 C) 20
 D) 25
77. The successor of 84999?
- A) 84998
 B) 84997
 C) 84999
 D) 85000
78. Choose the correct statement?
- A) The predecessor of a two-digit number is never a single digit number
 B) The successor of a two-digit number is always a two-digit number
 C) All whole numbers are natural numbers
 D) The natural number 1 has no predecessor

SPACE FOR ROUGH WORK

79. $\square - \frac{5}{8} = \frac{1}{4}$

A) $\frac{7}{8}$

B) $\frac{3}{4}$

C) $\frac{3}{8}$

D) $\frac{1}{8}$

80. $\frac{1}{2} + \frac{1}{3} + \frac{1}{6} = \underline{\hspace{2cm}}$

A) 1

B) $\frac{5}{6}$

C) $\frac{3}{5}$

D) $\frac{3}{11}$

81. Issac is allowed to play video games for $\frac{5}{3}$ hours each day. He has already played for $\frac{4}{3}$ hours today. What fraction of an hour does Issac have left to play video games today?

A) $\frac{2}{3}$

B) $\frac{1}{3}$

C) $\frac{7}{3}$

D) $\frac{10}{3}$

82. Which of the following is the decimal form of $1\frac{2}{5}$?

A) 0.24

B) 2.4

C) 1.4

D) 2.04

83. Find the value of $11.6 - 9.847$?

A) 1.753

B) 86.87

C) 2.247

D) 1.847

84. Each angle of an equilateral triangle is

A) 50°

B) 90°

C) 60°

D) 45°

85. The end point at which two rays meet to form an angle is called _____

A) Vertical

B) Adjacent

C) Vertex

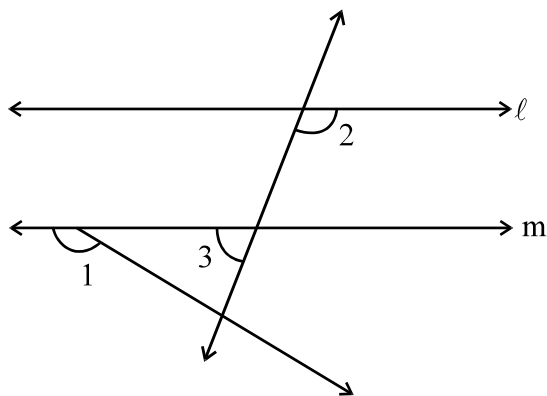
D) Side

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86. A triangle has angles measuring 60° , 66° and 54° . What type of triangle is this?
 A) Equilateral B) Isosceles C) Scalene D) None of these
87. How many medians a triangle can have?
 A) 1 B) 2 C) 3 D) None of these
88. The measure of three angles of a triangle are in the ratio 5:3:1. Find the measure of these angles
 A) 100° , 60° , 20° B) 80° , 30° , 45° C) 120° , 150° , 30° D) 90° , 90° , 67°
89. Find $0.36 \div 0.6 + 3 - 9$
 A) 0 B) -5.4 C) 6.6 D) 8.54
90. The value of $27 - [46 - \{30 - (8 - 2)3\}]$ is
 A) 0 B) -7 C) -3 D) 3
91. 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) $\frac{5}{6} < \frac{3}{8} < \frac{6}{8} < \frac{2}{4}$
92. 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
93. What is the smallest 4 digit number which is divisible by 18, 24 and 32?
 A) 1152 B) 1252 C) 1138 D) 1132

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94. If $x : y = 7 : 8$, then $(6x - 2y) : (5x + 3y)$ is
 A) 24 : 61 B) 26 : 59 C) 31 : 66 D) 24 : 59
95. 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
96. 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
97. 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
98. 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°

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99. Which of the following are coprime pairs?

A) 33, 18

B) 34, 51

C) 27, 125

D) 4, 18

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

A) 177

B) 167

C) 215

D) 314

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. D
14. C
15. A
16. B
17. B
18. A
19. A
20. C
21. A
22. B
23. D
24. D
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. B
39. C
40. C
41. C
42. B
43. C
44. C
45. C
46. D
47. A
48. D
49. D
50. B

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. C
64. D
65. D
66. C
67. C
68. B
69. C
70. B
71. B
72. D
73. B
74. D
75. C

MATHEMATICS

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