



Brilliant STUDY CENTRE

PALA

FOUNDATION PROGRAMME CLASS VIII 23-10-2021
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.

PHYSICS

1. 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
2. Which one of the following will allow electric current to pass through?
A) Eraser B) Matchstick C) Plastic comb D) Iron Nail
3. An electric cell hasterminals
A) One B) Two C) Three D) Four
4. 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
5. Which of the following is a non-magnetic material?
A) Nickel B) Wood C) Iron D) Cobalt
6. Device used to measure electric current is
A) Volt meter B) Ammeter C) Current meter D) Barometer
7. Which is a correct relationship?
A) 1 m = 100 cm B) 1 cm = 100 mm C) 1 km = 100m D) all of these
8. 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
9. 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

SPACE FOR ROUGH WORK

10. Bouncing back of light from shining surfaces is called
A) Reflection B) Refraction C) Bending D) Dispersion
11. 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
12. 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
13. 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
14. The shadow is the dark outline of
A) An object B) A source of light C) A screen D) An image
15. Reflection takes place from a
A) polished metal plate B) mirror
C) undisturbed water D) All of these
16. The light from the sun reaches the earth in
A) 8.33 minutes B) 8.33 seconds
C) 18.33 minutes D) 88.33 seconds
17. The size of a shadow of an opaque object moves away from the source of light.
A) Increases B) Decreases
C) Remains the same D) First decreases and increases

SPACE FOR ROUGH WORK

18. A combination of two or more cells is called
A) Battery B) A button cell C) An electric cell D) Truck battery
19. Kerosene oil is an example of
A) Conductors B) Insulators C) Electrolyte D) None of these
20. The path along which electric current flows is
A) Switch B) Electric current C) Electric circuit D) Electric cell
21. When circuit is open current will
A) not flow B) flow C) increase D) decrease
22. Battery, wire and bulb are parts of a
A) Circuit B) Chamber C) Transformer D) Pole
23. An open circuit is defined as
A) Discontinuous B) Broken path
C) Current will not flow D) All of them
24. To close and open an electric circuit electrical component use is called
A) Switch B) Plug C) Socket D) Extension
25. A glowing filament will be
A) At a low temperature B) At a high temperature
C) At atmospheric temperature D) At the temperature of ice

CHEMISTRY

26. Which of the following is insoluble in water?
A) Sugar B) Salt C) Kerosene D) Oxygen
27. Which of the following allow/s light to pass through it?
A) Transparent B) Translucent C) A and B both D) Opaque

SPACE FOR ROUGH WORK

28. An example of a periodic change is
A) Swinging of a clock pendulum
B) Landslides during rains
C) Rusting of iron
D) Sneezing
29. 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
30. 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
31. In fusion of ice cube, heat gained causes
A) Ice to melt
B) Increase temperature
C) Release energy
D) None of these
32. When a substance gains heat, temperature?
A) Increases
B) Decreases
C) Remain same
D) None of these
33. 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
34. 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

SPACE FOR ROUGH WORK

35. 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
36. 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
37. Carefull management of water means
- A) More desertification
 - B) More deforestation
 - C) Less wasting of water
 - D) More wasting of water
38. Which of the following substances has fixed mass, fixed volume but no fixed shape?
- A) Aluminium foil
 - B) Nitrogen
 - C) Fruit juice
 - D) Ice
39. Which one of the following can be reversed?
- A) Melting of ice cubes
 - B) Cooking of food
 - C) Burning of petrol
 - D) Blooming of flowers
40. Which one of the following statements is correct
- Statement 1 : Increasing of our body temperature is a reversible change
- Statement 2 : Dissolution of gases like oxygen and carbon dioxide in water is irreversible changes
- A) Statement 1 only
 - B) Statement 2 only
 - C) Both statements are correct
 - D) Both statements are incorrect

SPACE FOR ROUGH WORK

41. Which one of the following is an example of a physical change?
- A) Burning of match - stick
B) Growth in plant
C) Decaying of food substance
D) Tearing of paper
42. In which one of the following kinds of changes no new substances are formed?
- A) Physical changes
B) Chemical changes
C) Irreversible changes
D) All of these
43. Few changes are given below mark the correct option from the codes given below
- i) Milk is set to form curd
ii) Batter is steamed to form idlis
iii) Water is boiled to form steam
iv) Salt is dissolved in water to form solution
- A) i) Physical, ii) Physical, iii) Chemical, iv) Chemical
B) i) Physical, ii) Chemical, iii) Physical, iv) Chemical
C) i) Chemical, ii) Chemical, iii) Physical, iv) Physical
D) i) Physical, ii) Chemical, iii) Chemical, iv) Physical
44. Clouds are formed due to
- A) Only evaporation
B) Only condensation
C) Evaporation and Transpiration of water into air
D) Only vaporization
45. Which of the following is potable water?
- A) A glass of water fit for drinking
B) Water in a pot
C) Sea water
D) Water with bacteria and chemicals
46. In winter mornings, we can see drops of water on the grass. This is because of
- A) Photosynthesis
B) Transpiration
C) Condensation
D) Water cycle

SPACE FOR ROUGH WORK

47. Rain water harvesting is a method employed to
- A) Stop soil erosion in a place B) Raise the water table of a place
C) Decrease drought at a place D) Decrease floods at a place
48. Mountaineers carry oxygen cylinders with them because
- A) Oxygen supports combustion B) Oxygen is less at higher altitudes
C) More oxygen is needed to cook food D) Oxygen does not support combustion
49. Which of the constituents of air on increasing, causes global warming?
- A) Nitrogen B) Oxygen
C) Inert gas D) Carbon dioxide
50. The percentage of water vapour present in air is called
- A) Diversity B) Humidity C) Mass D) Solubility

BIOLOGY

51. Starch can be tested by using.
- A) Iodine solution B) Caustic soda C) Fehling's solution D) Copper sulphate
52. 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
53. 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
54. 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

SPACE FOR ROUGH WORK

55. 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)
56. Which of the following terms constitute the female part of the flower?
- A) Sepals, petal and stamen B) Stigma, style and ovary
C) Ovary, stamen and stigma D) Ovary, style and stamen
57. Which is an example of a shrub?
- A) Spinach B) Mango tree C) Lemon plant D) Banana plant
58. Which of the following parts of our body help us in movement?
- (i) Bones (ii) Skin (iii) Muscles (iv) Sense Organs
- Choose the correct answer from the option below.
- A) (i) and (iii) B) (ii) and (iv) C) (i) and (iv) D) (ii) and (iii)
59. Which of the following organisms does not have an internal skeleton to which the muscles are attached in order to help for movement?
- A) Dog B) Snake C) Earthworm D) Human being
60. Underwater divers wear fin-like flippers on their feet to
- A) swim easily in water
B) look like a fish
C) walk on water surface
D) walk over the bottom of the sea(sea bed).
61. Snail moves with the help of its
- A) shell B) bone C) muscular foot D) whole body.

SPACE FOR ROUGH WORK

62. How many muscles work together to move a bone?
A) One B) Two C) Three D) Four
63. Skeleton of human body is made up of
A) Bones B) Cartilage
C) Bones and cartilage D) Bones, cartilage and muscles.
64. The structure that joins the chest bone and the back bone together is :
A) Clavicle B) Rib cage
C) Pelvic bone D) Spine (Vertebral column)
65. Joint between the upper jaw and the rest of the head is :
A) Pivot joint B) Ball and socket joint
C) Fixed joint D) Hinge joint
66. The joint that allows the backward and forward movement of head is :
A) Fixed joint B) Pivot joint
C) Hinge joint D) Ball and socket joint
67. Example for biotic component is :
A) Microbes B) Temperature C) Humidity D) Light
68. Blow holes are found in :
A) Whales B) Frog C) Earthworm D) Prawn
69. Changes in surroundings that makes us respond to them :
A) Behaviour B) Stimuli C) Adaptation D) None
70. Example for terrestrial habitat is :
A) Grasslands B) Mountain regions C) Deserts D) All
71. Example for omnivorous organism is :
A) Cow B) Rabbit C) Dog D) Deer

SPACE FOR ROUGH WORK

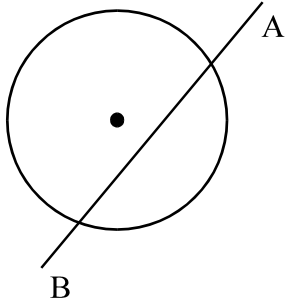
72. Lion is a ----- because it eats -----
- A) Herbivore, grass
 - B) Carnivore, meat
 - C) Omnivore, both grass/meat
 - D) None
73. Nodes and internodes are present on :
- A) Root
 - B) Stem
 - C) Leaves
 - D) Flower
74. Which of the following is not a food from animal source ?
- A) Milk
 - B) Ghee
 - C) Paneer
 - D) Nectar
75. Pick out a herbivorous animal :
- A) Goat
 - B) Lion
 - C) Tiger
 - D) Fox

MATHEMATICS

76. 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
77. 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

SPACE FOR ROUGH WORK

78.

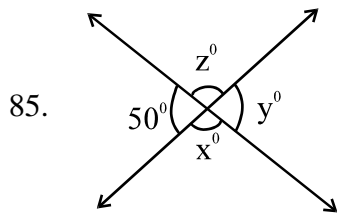


The line AB is called

- A) Chord B) Secant C) Tangent D) Diameter
79. The ratio of one hour 45 minutes to 2 hours is
 A) 3 : 4 B) 5 : 7 C) 7 : 8 D) 6 : 7
80. 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
81. 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
82. 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) $3 \frac{2}{5}$

SPACE FOR ROUGH WORK

83. 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
84. What is supplementary angle of 80° ?
 A) 280° B) 10° C) 100° D) -80°



Find $x + y + z$

- A) 120° B) 230° C) 250° D) 310°
86. The angle which is equal to its compliment?
 A) 90° B) 0° C) 180° D) 45°
87. 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
88. The sum of factor of 36 is
 A) 54 B) 90 C) 91 D) 53
89. If a rectangle has length = 12cm, breadth = 4cm; then its area is?
 A) 16cm^2 B) 48cm^2 C) 32cm^2 D) 24cm^2
90. What is the area of the square of side 5cm?
 A) 20cm^2 B) 30cm^2 C) 60cm^2 D) 25cm^2
91. Find the perimeter of a square with one side is 7cm?
 A) 22 B) 12 C) 16 D) 28

SPACE FOR ROUGH WORK

92. The area of a rectangular is 96cm^2 . If the breadth of a rectangle is 8cm , find its length and perimeter
 A) 12cm , 40cm B) 11cm , 45cm
 C) 20cm , 60cm D) 15cm , 50cm
93. A factory produces 1617 shoes in a week. How many shoes does it produces in a day?
 A) 2301 B) 231 C) 16175 D) 11319
94. The total weight of 4 dictionaries and 1079 exercise books is 75kg . If each exercise book weights 68g , what is the weight of each dictionary?
 A) 0.407g B) 407kg C) 1628g D) 0.407kg
95. Sumanth saves Rs 250 every month. How much money will he be saving in one year
 A) Rs. 2600 B) Rs. 3000 C) Rs. 2500 D) Rs. 3500
96. The product of two numbers is 476. If one number is 34, what is the other number?
 A) 104 B) 14 C) 24 D) 442
97. A bag contains 12 books. How many bags are required for 144 books
 A) 12 B) 13 C) 24 D) 36
98. $91\frac{1}{9}$ of 135 =
 A) 1215 B) 12300 C) 1365 D) 11070
99. Find the value of $1.07+2.5+45.08$
 A) 80.78 B) 71.15 C) 48.65 D) 8.078
100. If 150 families donated Rs. 12 each for school fundraiser. How much money was collected?
 A) Rs. 2800 B) Rs. 800 C) Rs. 1800 D) Rs. 1600

SPACE FOR ROUGH WORK

FOUNDATION - CLASS VIII (STUDYING VII) - KEY

PHYSICS

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

CHEMISTRY

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

BIOLOGY

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

MATHEMATICS

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