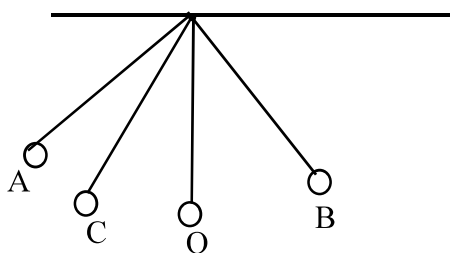


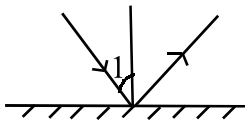


7. The time taken by the bob to move from A to C is  $t_1$  and from C to O is  $t_2$ . Calculate the time period of simple pendulum

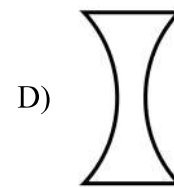
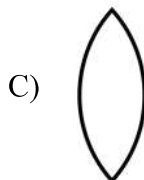
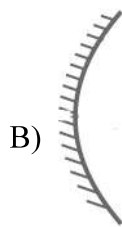
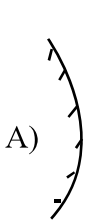


- A)  $t_1 + t_2$                       B)  $2(t_1 + t_2)$                       C)  $4(t_1 + t_2)$                       D) None of these
8. Choose the incorrect statement
- A) Convex mirrors are used as rear view mirrors  
 B) Convex mirrors are used as reflectors in torch  
 C) Concave mirrors are used as shaving mirror  
 D) Plane mirrors are used to make kaleidoscope
9. Needle of a compass is a tiny magnet which points in \_\_\_\_\_ direction
- A) East - West                      B) North - South                      C) North - East                      D) South - West
10. Shorter line in the symbol for a cell represents its \_\_\_\_\_ terminals
- A) Neutral                      B) Positive                      C) Negative                      D) Both B and C
11. Time required for moon to complete one revolution around the earth is \_\_\_\_\_ days
- A) 27                      B) 28                      C)  $27\frac{4}{3}$                       D)  $27\frac{1}{3}$
12. Which among the following is a transparent object ?
- A) Diamond                      B) Wood                      C) Metal                      D) Earth
13. Which planet has higher number of satellites ?
- A) Jupiter                      B) Saturn                      C) Mars                      D) Uranus
14. Match the following
- | Column A        | Column B          |
|-----------------|-------------------|
| p) 1 centimeter | 1) 100 centimeter |
| q) 1 meter      | 2) 10 millimeter  |
| r) 1 kilometer  | 3) 10 centimeter  |
| s) 1 decimeter  | 4) 1000 meter     |
- A) p - 1, q - 3, r - 2, s - 4                      B) p - 3, q - 2, r - 4, s - 1  
 C) p - 2, q - 1, r - 4, s - 3                      D) p - 4, q - 1, r - 3, s - 2

15. Name the angle marked as 1 in the diagram



- A) Angle of incidence  
B) Angle of reflection  
C) Angle of refraction  
D) Right angle
16. What are the effects of electric current ?  
A) Gravitational effect B) Heating effect C) Magnetic effect D) Both B and C
17. The seven constellation sapharshis is known to be \_\_\_\_\_ among westerners  
A) Orion B) Big dipper C) Aquarius D) Centaurus
18. Identify covex lens from the following figures



19. Compass needle gets deflected when \_\_\_\_\_ flows in a near by wire  
A) Heat B) Light C) Current D) Sound
20. Substances that do not conduct electricity are called \_\_\_\_\_  
A) Conductors B) Semiconductors C) Insulators D) None of these
21. The five star constellation cassiopia is seen in the sky in the evening from \_\_\_\_\_  
A) Jan - March B) April - June C) July - September D) October - November
22. In an electric generator \_\_\_\_\_ energy converts to electrical energy  
A) Chemical B) Mechanical C) Heat D) Light
23. Which type of objects can cast shadows ?  
A) Transparent B) Translucent C) Opaque D) Both A and B
24. Match the following

Column A	Column B
p) Magnetite	1) Used to find N-S directions
q) Iron, Nickel, Cobalt	2) Natural magnet
r) Leather, Plastic	3) Magnetic substances
s) Compass	4) Non magnetic substances

- a) p - 1, q - 3, r - 4, s - 2  
B) p - 2, q - 4, r - 1, s - 3  
C) p - 3, q - 1, r - 4, s - 2  
D) p - 2, q - 3, r - 4, s - 1
25. The coil of wire contained in an electric heater is known as  
A) Filament B) Element C) Circuit D) Spring

**CHEMISTRY**

26. Consider the following statements, choose the incorrect one
- A) Calamine can be used to treat ant's sting      B) Lime water turns red litmus blue  
C) Phenolphthalein is a natural indicator      D) None of the above
27. Consider the following sentences blue choose the correct statements
- A) Tartaric acid present in unripe mangoes      B) Formic acid present in ant's sting  
C) Lactic acid present in curd      D) All the above
28. When the soil is too basic plants do not grow well in it. To improve its quality, what must be added to the soil
- A) Organic matter      B) Quick lime      C) Slaked lime      D) Calamine solution
29. Consider the following statements and choose the correct options
- A) Our stomach contains hydrochloric acid  
B) Hydrochloric acid helps us to digest food  
C) We take milk of magnesia in digestion  
D) All of the above
30. Neutralisation reaction is
- A) Physical and reversible change      B) Physical change that cannot be reversed  
C) Chemical and reversible change      D) Chemical change that cannot be reversed
31. Which of the following is an acid base indicator
- A) Vinegar      B) Lime water      C) Turmeric      D) Baking soda
32. Which of the following is a physical change
- A) Rusting of iron      B) Combustion of magnesium ribbon  
C) Burning of candle      D) Melting of wax

33. Which of the following statements is or are correct
- A) Lemon water is basic in nature
  - B) A compound if acidic will turn all indicator red
  - C) Common salt dissolved in water turns blue litmus red
  - D) None of the above
34. 'Litmus' natural dye is an extract of which of the following
- A) China rose
  - B) Beetroot
  - C) Lichen
  - D) Blueberries Jamun
35. Which of the following statements is incorrect for a chemical reaction
- A) Heat may be given out by never absorbed
  - B) Sound may be produced
  - C) A colour change may take place
  - D) A gas may be evolved
36. Which of the following sentence is incorrect
- A) Photosynthesis is a chemical change
  - B) Digestion of food is a chemical change
  - C) Formation of manure from leaves is a chemical change
  - D) Iron and rust are the same substances
37. Which one is a physical change
- A) Melting of ice
  - B) Melting of wax
  - C) Formation of steam from water
  - D) All the above
38. Which one is a chemical change
- A) Burning of paper
  - B) Germination of seed
  - C) Formation of coal from wood
  - D) All of these
39. Crystallisation is a process to obtain
- A) Pure solids only
  - B) Pure liquids only
  - C) Pure solids and liquids
  - D) Solids or powder

- 
40. Sewage is mainly as
- A) Liquid waste                                        B) Solid waste  
C) Gaseous waste                                      D) Mixture of solid and gas
41. Open drain system is a breeding place for which of the following
- A) Flies    B) Mosquitoes  
C) Organisms which cause disease                D) All the above
42. Identify the one chemical which is used to disinfect water
- A) Chlorine                      B) Washing soda            C) Silica                      D) Coal
43. Which is used in vermi processing toilets
- A) Cockroaches            B) Earthworms              C) Snail                      D) Silkworms
44. In a filtration plant, water is filtered using layers of
- A) Sand and clay    B) Clay and fine gravel  
C) Sand and fine gravel                                    D) Sand, fine gravel and medium gravel
45. Which of the following is not a inorganic impurities present in sewage
- A) Nitrate                      B) Phosphate                C) Urea                      D) Metal salt
46. Calcium hydroxide is found in
- A) window cleaner        B) Lime water                C) Soap                      D) Lime Juice
47. When a drop of vinegar solution is put on the litmus paper it turns
- A) Red                          B) Blue                          C) Green                      D) Yellow
48. Tap water is
- A) Acidic                      B) Basic                          C) Neutral                      D) Depends on source
49. The gas which turns lime water milky is
- A)  $\text{SO}_2$                       B)  $\text{NO}_2$                           C)  $\text{H}_2$                           D)  $\text{CO}_2$

50. Stainless steel is composed of

A) Iron, Carbon and nickel

B) Iron and aluminium

C) Iron and silver

D) Iron and chromium

### **BIOLOGY**

51. Water is absorbed from the roots of a plant it goes to the leaves. This process is known as

A) Diffusion

B) Osmosis

C) Photosynthesis

D) Respiration

52. Full form of ATP is adenosine triphosphate It is produced in our body in cells inside

A) Ribosomes

B) Lysosomes

C) Mitochondria

D) Golgi bodies

53. Which among the following pathogens causes Cholera ?

A) Protozoan

B) Fungus

C) Virus

D) Bacteria

54. The consumption of spoiled food leads to

A) Enhancement of food taste

B) Food poisoning

C) Enhancement food texture

D) Increase in nutritional value of food

55. Most of the plants get or absorb nitrogen from soil in the form of

A) Nitrogen gas

B) Nitric acid

C) Nitrite

D) Nitrate

56. Which of the following is a type of fungal micro organism ?

A) Bacterium

B) Protozoan

C) Algae

D) Yeast

57. The species which are at the verge of extinction are called

A) Extinct species

B) Endemic species

C) Endangered species

D) Threatened species

58. Plant cells have the following

A) Plastids

B) cell wall

C) Large vacuole

D) All of these

59. The control centre of the cell is

A) Mitochondria

B) Chloroplast

C) Nucleus

D) Endoplasmic reticulum

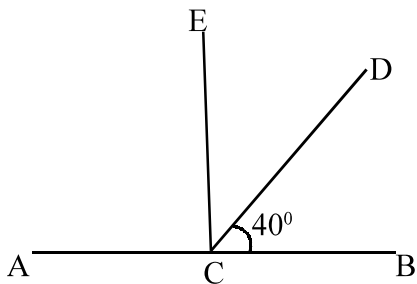
60. Gir National Park located in  
A) Rajasthan                      B) Gujarat                      C) Uttarakhand                      D) Odisha
61. Dodo and dinosaurs are examples of  
A) Endemic species      B) Extinct species      C) Endangered species      D) Threatened species
62. Largest cell in world  
A) Nerve cell                      B) RBC                      C) Egg of an ostrich      D) PPL0
63. The pigment present in chloroplast  
A) Carotene                      B) Xanthophyll                      C) Chlorophyll                      D) Anthocyanin
64. Functional segment of DNA are called  
A) Genes                      B) chromosomes                      C) RNA                      D) chromatid
65. Suicidal bags of a cell ?  
A) Ribosomes                      B) Mitochondria                      C) Lysosomes                      D) Golgi apparatus
66. Name the bacteria present in the root of Pea-plant ?  
A) Rhodospirillum      B) Rhizobium                      C) Anabaena                      D) Rhizopus
67. The programme that aims to grow more trees and plants in order to replenish 'forests' ?  
A) Olericulture                      B) Silviculture                      C) Apiculture                      D) Sericulture
68. 'Slipper' - shaped organisms are  
A) Euglena                      B) Paramecium                      C) Amoeba                      D) Hydra
69. The first 'antibiotic penicillin' discovered by  
A) Robert Brown                      B) Edward Jenner                      C) Alexander Fleming                      D) Louis Pasteur
70. The theme for World Environment Day 2023 is  
A) Solutions of plastic pollution                      B) Invest in our planet  
C) Let us save soil before it is too late                      D) Time for nature



71. Study of cells is called
- A) Histology                      B) Cytology                      C) Microbiology                      D) Pathology
72. 'Round' shaped bactrians are
- A) Spirillum                      B) Vibrio                      C) Bacillus                      D) Coccus
73. An example of 'fungi'
- A) Mushrooms                      B) Spirogyra                      C) Lactobacillus                      D) Chlorella
74. The smallest wild life sanctuary in Kerala
- A) Pampadum sholw National Park                      B) Periyar wild life sanctuary
- C) Wayanad wild life sanctuary                      D) Karimpuzha wild life sanctuary
75. Milk - teeth fall between age of
- A) 6 - 8 years                      B) 8 - 10 years                      C) 10 - 12 years                      D) 50 - 60 years

### MATHEMATICS

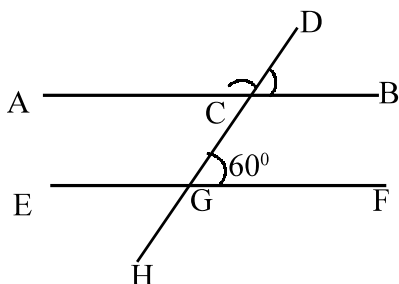
76.



Find angle  $\angle DCE$

- A)  $90^\circ$                       B)  $50^\circ$                       C)  $40^\circ$                       D)  $30^\circ$

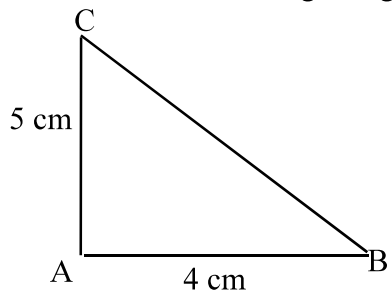
77.



What is the measurement of  $\angle ACD$

- A)  $120^\circ$                       B)  $60^\circ$                       C)  $180^\circ$                       D)  $90^\circ$

78. What is the area of a right angles triangle  $\triangle ABC$

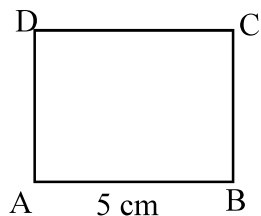


- A)  $20\text{cm}^2$                       B)  $10\text{cm}^2$                       C)  $5\text{cm}^2$                       D)  $4\text{cm}^2$

79. Additive inverse of  $(-20)$  is

- A) 20                      B) -20                      C)  $\frac{1}{20}$                       D)  $-\frac{1}{20}$

80.



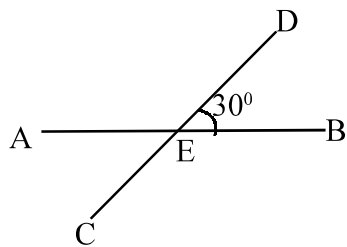
What is the area of the square ABCD

- A)  $16\text{cm}^2$                       B)  $25\text{cm}^2$                       C)  $30\text{cm}^2$                       D)  $20\text{cm}^2$

81. What is  $x + (x + 1) + (x + 2) + (x + 3) + (x + 4)$

- A)  $5x + 10$                       B)  $5(x + 2)$                       C) a & b                      D) None of these

82.



What is  $\angle AEC$

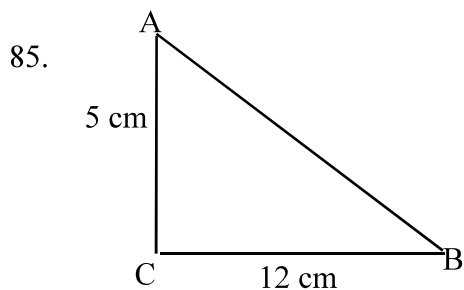
- A)  $30^\circ$                       B)  $150^\circ$                       C)  $120^\circ$                       D)  $45^\circ$

83. What is  $(20)^4 + (10)^2 = ?$

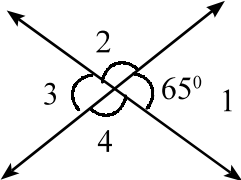
- A) 160100                      B) 161000  
C) 160010                      D) 16000

84.  $x + (x + 1) + (x - 1)$  is

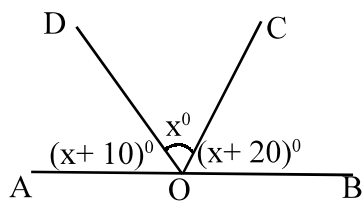
- A)  $3x$                       B)  $3x - 2$                       C)  $3x + 1$                       D)  $2x$



$\triangle ABC$  is a right angled at C. If  $AC = 5$  cm and  $BC = 12$  cm find the length of AB

- A) 15 cm                      B) 12 cm                      C) 13 cm                      D) 7 cm
86. Which is the smallest prime number between 10 and 20  
A) 10                      B) 11                      C) 13                      D) 12
87. Find  $\left(\frac{4}{5}\right)^2 + \left(\frac{3}{5}\right)^2$   
A) 1                      B) 2                      C) 3                      D) 4
88. What is the greatest composite number between 1 and 100  
A) 99                      B) 97                      C) 98                      D) 95
89. The sum at 10 number is 550. Find their average number  
A) 65                      B) 55                      C) 550                      D) 40
90. Find the LCM of 60845  
A) 60                      B) 120                      C)  $180^0$                       D) 200
91. Repeated addition is called \_\_\_\_\_  
A) Multiplication                      B) Subtraction                      C) Division                      D) None of these
92. Find  $(-2)^3$   
A) 8                      B) -8                      C) 6                      D) -6
93. Fill in the blanks to make the following statements true  
 $(-5) + (-8) = (-8) + ( \quad )$   
A) -5                      B) 5                      C) -8                      D) 13
94. Find the mean of the first five whole numbers  
A) 2                      B) 1                      C) 10                      D) 5
95.   
Find  $\angle 4$   
A)  $115^0$                       B)  $65^0$                       C)  $135^0$                       D) None of these

96.

Find  $\angle COD$ 

- A)  $50^\circ$                       B)  $60^\circ$                       C)  $70^\circ$                       D)  $90^\circ$
97. It  $20 : 12 :: y : 6$  find the value of y ?
- A) 20                      B) 10                      C) 12                      D) 15
98. Two angles of a triangle are of measures  $100^\circ$  and  $30^\circ$ . find the measure of the third angle
- A)  $135^\circ$                       B)  $45^\circ$                       C)  $50^\circ$                       D)  $60^\circ$
99. What is  $(-20) \times (20)$
- A) 400                      B) -400                      C) 0                      D) 40
100. What is the sum of angles in a circle
- A)  $180^\circ$                       B)  $90^\circ$                       C)  $540^\circ$                       D)  $360^\circ$

Name.....

**FOUNDATION**

Batch..... Roll No. ....

**SCREENING MOCK TEST SERIES**

Date :07-07-2024

FN24<sub>w</sub>/TP/PCBM

P + C + B + M - KEY

Class VIII (VII Studying)

**PHYSICS**

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

**CHEMISTRY**

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

**BIOLOGY**

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

**MATHEMATICS**

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