

TEST ID

601



**Brilliant STUDY CENTRE**  
**PALA**

QUESTION  
BOOKLET CODE

C

**FOUNDATION PROGRAMME CLASS VII 16-10-2021**  
**MOCK TEST**

**(Students who are studying in Class VI)**

**PHYSICS + CHEMISTRY + BIOLOGY + MATHS**

<b>Time : 120 minutes</b>	<b>Number of Questions : 100</b>	<b>Maximum Marks : 400</b>
Name of the Candidate :		
Signature of Candidate :		
Phone Number / Mobile No. :		
Name of the School Studying :		
Class Studying :		<b>Roll. No.</b>
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 the given question booklet, is for your class itself.
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 OMR 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. Which of the following is not a natural ecosystem?  
A) Desert                      B) Forest                      C) Aquarium                      D) Land
2. The main source of water pollution is  
A) Rain water                      B) Atmospheric pollutant  
C) Well water                      D) Sewage water
3. Which gas is mainly responsible for green house effect?  
A) CO<sub>2</sub>                      B) H<sub>2</sub>                      C) O<sub>2</sub>                      D) N<sub>2</sub>
4. Cutting of trees in a forest is called?  
A) Deforestation                      B) Aforestation                      C) Reforestation                      D) Social forestry
5. Which contributes to Noise Pollution the most?  
A) Television                      B) Music from headphones  
C) Construction crane                      D) Huge blasting
6. The gradual increase in the Earth's average temperature is known as  
A) Global warming                      B) Global cooling                      C) Eutrophication                      D) None of these
7. Harmful substances that pollute the environment is called?  
A) Reactant                      B) Pollutant                      C) Nutrients                      D) None of these
8. Environmental Pollution is caused by  
A) Plants                      B) Animals  
C) Human activities                      D) Both plant and animals
9. Rain containing high level of acid is called  
A) Sewage                      B) Eco-friendly rain                      C) Acid rain                      D) Floods
10. Unchecked use of loud speakers causes  
A) Noise pollution                      B) Water pollution                      C) Land pollution                      D) Air pollutions

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**SPACE FOR ROUGH WORK**

11. A simple machine that consist of fulcrum is  
A) a lever                      B) an inclined plane      C) a wedge                      D) a pulley
12. A machine made of two or more simple machines is called a  
A) Wheel and axle      B) Wedge                      C) Pulley                      D) Complex machine
13. An axe is a  
A) Wedge                      B) Pulley                      C) Wheel and axle      D) Lever
14. Which of the following example does not shows air exerts pressure?  
A) Movement of leaves of trees when wind is blowing  
B) Flags flutter when the wind is blowing  
C) The wind coming from the back help in flying kite  
D) The bullock cart is pulled by one or several oxen
15. Force acting on per unit area is called  
A) Constant force      B) Pseudo force              C) Frictional force      D) Pressure
16. Force can change  
A) Motion of body      B) Speed of body              C) Shape of body              D) All of these
17. Which of the following is correct  
A) Warm air is heavier than the cold air  
B) On heating the air contracts  
C) On heating the air expands  
D) On heating air expands and occupies less space
18. Which of the following is correct if a storm is accompanied by lightning  
A) Do not take shelter under an isolated tree  
B) Do not take shelter under an umbrella with a metallic  
C) Do not sit near a window  
D) All of these

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**SPACE FOR ROUGH WORK**

19. The centre of cyclone is called  
A) Tail                      B) Eye                      C) Head                      D) Mouth
20. In philippines cyclone is known as  
A) Hurricane                B) Tornodoes                C) Typhoon                D) Tsunami
21. Which of the following is true ?  
A) A tornado is a dark funnel shaped cloud that reaches from the sky to the ground  
B) A violent tornado can travel at speeds of about 300 km/h  
C) The diameter of a tornado can be as small as a metre and as large as a km  
D) All of these
22. Anemometer is used to measure  
A) Wind speed                B) Temperature                C) Pressure                D) Humidity
23. Distance travelled by light in one year is known as  
A) Solar day                B) Light year                C) Astronomical unit                D) One shake
24. The distance of Alpha centauri from earth is about  
A) 4.3 light years                B) 1.5 light years                C) 8 light years                D) 0.05 light years
25. The star lies close to the axis of rotation of the earth is  
A) Alpha centauri                B) Pole star                C) Sirius                D) Betelgeuse
26. What is first aid?  
A) The initial care given for an injury  
B) The care that you give for an injury after it has been assessed by a doctor  
C) Full medical treatment  
D) Second response to an injury

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**SPACE FOR ROUGH WORK**

27. Biodegradable waste can be transformed into fertilizer by a process called .....
- A) Composting      B) Recycling      C) Reusing      D) Wasting
28. Which of the following is a biodegradable organic chemical/substance?
- A) Plastics      B) Oils      C) Pesticides      D) Garbage
29. High level radioactive waste can be managed in which of the following ways?
- A) Open dumping      B) Incineration  
C) Composting      D) Dumping in sealed containers
30. Water pollution can damage
- A) Ecosystem      B) Habitats      C) Food chains      D) All of the above
31. The advantage of fossil fuels
- A) Produce a lot of energy      B) Cause air pollution  
C) High cost      D) All of the above
32. Disadvantages of fossil fuels are
- A) Air pollution      B) Acid rain      C) Climate change      D) All of the above
33. Any useful material that is found in nature is known as
- A) Human resource      B) Natural resource      C) Plants      D) None of these
34. Which group includes all renewable resources?
- A) Coal, trees, water, oil      B) Water, wind, sun, plants  
C) Minerals, Sun, Natural gas, water      D) Minerals, trees, sun, oil
35. Which of the following natural resources is more non renewable?
- A) Water      B) Animals      C) Natural gas      D) Wind
36. What is a natural resources?
- A) Resources we get from our house      B) Resources we get from people  
C) Resources we get from nature      D) None of these

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**SPACE FOR ROUGH WORK**

37. Which one is not a natural resource?  
A) Water                      B) Plants                      C) Play dough                      D) Air
38. When an object changes position, it is in .....
- A) Direction                      B) Motion                      C) Speed                      D) None of these
39. Petroleum is formed from
- A) Domestic animals                      B) Organisms in sea                      C) Wild animals                      D) Insects
40. Petroleum is mixture of
- A) Petrol                      B) Diesel                      C) Petroleum gas                      D) All of these
41. In petroleum deposits the layer containing petroleum oil & gas is present
- A) Above that of water                      B) Below water                      C) Between water and sand                      D) Below sand
42. Refining is
- A) Extracting petroleum gas                      B) Separation of various fractions of petroleum  
C) Heating of coal                      D) Sedimentation of fossil fuel
43. LPG is used in / as
- A) Home                      B) Vehicles                      C) Aviation Fuel                      D) Road surfacing
44. CNG is stored under
- A) High temperature                      B) High pressure                      C) Kerosine                      D) none of these
45. CNG is used for
- A) Power generation                      B) Electric generators                      C) Solvent                      D) None of these
46. In India, vast reserves of natural gas are found in
- A) Tripura                      B) Rajasthan                      C) Maharashtra                      D) All of these
47. Burning of fossil fuel causes
- A) Air pollution                      B) Global warming                      C) Both (A) & (B)                      D) None of these

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**SPACE FOR ROUGH WORK**

48. Which of the following is necessary for a substance to burn?  
A) Light                      B) Gasoline                      C) Oxygen                      D) Hydrogen
49. Which gas in the upper atmosphere saves us from the UV rays of the sun?  
A) Nitrogen                      B) Oxygen                      C) Ozone                      D) Carbon Monoxide
50. Dry ice is  
A) Solid Carbon Dioxide    B) Very Cold Ice                      C) Ice with salt added    D) Any Frozen Liquid
51. Kitchen of plant refers to which part of plant  
A) Leaf                      B) Stem                      C) Root                      D) Flower
52. What would you plant in soil to get a new rose plant in your garden  
A) Bud                      B) Stem                      C) Leaves                      D) Root
53. Photosynthesis in plant does not require  
A) Water                      B) CO<sub>2</sub>                      C) Sunlight                      D) Oxygen
54. Which among the following is not a rabi crop  
A) Cabbage                      B) Cauliflower                      C) Bajra                      D) Pea
55. A new plant can be grown through leaves in  
A) Bryophyllum                      B) Ferns                      C) Ginger                      D) Garlic
56. Which of the following things are required for germination of seed  
A) Water                      B) Correct temperature  
C) Good quality of soil                      D) All of these
57. Which of the following is a non-poisonous snake  
A) Krait                      B) Cobra                      C) Viper                      D) Python
58. Which animal has the longest sleep hour  
A) Cow                      B) Horse                      C) Sloth                      D) Cat

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**SPACE FOR ROUGH WORK**

59. Heart : Circulatory system : : \_\_\_\_\_ : Nervous System  
 A) Lungs                      B) Kidney                      C) Bones                      D) Brain
60. Pick the odd one out  
 A) Iodine                      B) Potassium                      C) Calcium                      D) Vitamin K
61. Spinal cord is a part of \_\_\_\_\_ system  
 A) Circulatory system                      B) Nervous system  
 C) Digestive system                      D) Urinary system
62. Which of the following vitamin is involved in blood clotting ?  
 A) Vitamin A                      B) Vitamin B                      C) Vitamin K                      D) Vitamin D
63. Which of these vitamin is needed for strong bones and teeth  
 A) Vitamin D                      B) Vitamin K                      C) Vitamin A                      D) Vitamin C
64. A diet that provides all the nutrients in the right amount is called \_\_\_\_\_  
 A) Nutrient diet                      B) Good diet                      C) Balanced diet                      D) Rich diet
65. Vitamin, that helps to avoid night blindness is \_\_\_\_  
 A) Vit. A                      B) Vit. C                      C) Vit.E                      D) Vit.K
66. \_\_\_\_\_ is mainly helping for the regeneration and repairing of cells  
 A) Carbohydrate                      B) Fats                      C) Proteins                      D) Vitamins
67. Which of the following is an infectious disease  
 A) Tuberculosis                      B) Cancer                      C) Diabetes                      D) Scurvy
68. Which of the following is an example of innate immunity  
 A) Skin                      B) Vaccination                      C) B-Lymphocytes                      D) Acquired immunity
69. What is the hardest substance in human body ?  
 A) Bone                      B) Skull                      C) Enamel                      D) Dentine

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**SPACE FOR ROUGH WORK**



70. \_\_\_\_\_ provide food to the seedling until the leaves makes enough food for the plant  
 A) Cotyledons                      B) Radicle                      C) Plumule                      D) Embryo
71. Match the following

Column-I		Column-II	
1)	Thick layers of fur and layer of fat under skin	a	Animals of tropical rain forest
2)	Sharp eye sight, camouflage, bright colours and loud voice	b	Aquatic plants
3)	Light weight internal packing cells, aerenchyma	c	Polar adaptation of animals
4)	Specialized hooves, larger hearts and lungs	d	Mountain dwelling animals

- A) 1 – c; 2 – a; 3 – b; 4 – d                      B) 1 – a; 2 – c; 3 – b; 4 – d  
 C) 1 – d; 2 – b; 3 – c; 4 – a                      D) 1 – c; 2 – d; 3 – b; 4 – a
72. During the process of photosynthesis \_\_\_\_\_ is acting as the energy source  
 A) Sunlight                      B) Water                      C) CO<sub>2</sub>                      D) Plants
73. Which of the following is a seed containing stored food for humans?  
 A) Wheat                      B) Guva                      C) Grapes                      D) Mango
74. Plants that can be grown from stem cutting  
 A) Sweet potato                      B) Sugar cane                      C) Mango                      D) Wheat

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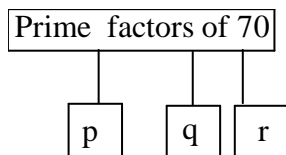
**SPACE FOR ROUGH WORK**

75. Lack of iodine in diet can cause  
A) Rickets                      B) Scurvy                      C) Goitre                      D) Bleeding
76. With which place does a 7- digit number start in the Indian system?  
A) Lakhs                      B) Ten Thousands                      C) Ten Lakhs                      D) Crores
77. Find the place value of 0 in 36,04,85,298  
A) Ten Lakhs                      B) Lakhs                      C) Zero                      D) 6 crores
78. Identify the number name for 123,080,603.  
A) One two three eighty thousand six hundred three  
B) One hundred twenty three million eight thousand six hundred three.  
C) One hundred twenty three million eighty thousand six hundred three.  
D) One twenty three million eighty thousand six hundred.
79. Observe the following  $6,73,89,145 \square 67,38,91,450$ . Identify the missing symbol.  
A)  $<$                       B)  $>$                       C)  $=$                       D) either A and B
80. Which of the following is the number obtained by rounding 178762 to the nearest hundreds?  
A) 178760                      B) 178800                      C) 178700                      D) 17800
81. Find the lowest common multiple of the numbers 32, 48 and 80  
A) 480                      B) 750                      C) 460                      D) 780
82. Which of the following is correct?  
A) Successor of predecessor of 1000 is 1001  
B) Successor of predecessor of 1000 is 1002  
C) Predecessor of successor of 1000 is 1000  
D) Predecessor of predecessor of 1000 is 999

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**SPACE FOR ROUGH WORK**

83. From the given diagram, what is the value of  $p + q + r$  ?



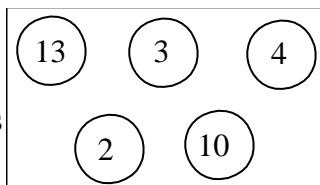
A) 7

B) 8

C) 9

D) 14

84. The figure given shows 5 numbers



which of the 5 numbers are the prime factors

of 130?

A) 2 and 3

B) 10 and 13

C) 2 and 13

D) 3 and 10

85. 'M' is a multiple of 8 and a factor of 48. Find the possible value for m.

A) 4

B) 32

C) 16

D) 40

86. Find the least 4 - digit number that is divisible by 8

A) 1000

B) 1008

C) 4000

D) 1016

87. How many prime numbers are there from 50 to 100 ?

A) 18

B) 12

C) 10

D) 20

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SPACE FOR ROUGH WORK

88. Match the corresponding equivalent fraction given in list II with the fractions given in list I.

List I		List II	
A	$\frac{3}{8}$	1	$\frac{35}{42}$
B	$\frac{4}{5}$	2	$\frac{6}{16}$
C	$\frac{7}{10}$	3	$\frac{16}{20}$
D	$\frac{5}{6}$	4	$\frac{35}{50}$

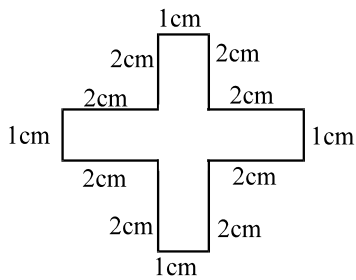
A B C D equals.

- A) 2341                      B) 1324                      C) 3214                      D) 1324

89. A page is 25cm long and 20cm wide. Find the perimeter of this page :

- A) 90 cm                      B) 45 cm                      C) 500 cm                      D) 5 cm

90. The perimeter of the figure is :




- A) 5 cm                      B) 10 cm                      C) 15 cm                      D) 20 cm

91. Meenu wants to put a lace boarder all around a rectangle table cover 2m long and 1m wide. Find the length of the lace required by Meenu :

- A) 3m                      B) 4m                      C) 5m                      D) 6m

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**SPACE FOR ROUGH WORK**

92. 392600 apples are packed equally in 1208 boxes. How many apples are packed in a box?  
 A) 335                      B) 345                      C) 325                      D) 315
93. The product of 2 numbers is 819210. If one number is 658 then what is the other number?  
 A) 1245                      B) 1235                      C) 1255                      D) 1215
94. A Maths book cost Rs. 136. What is the cost of 6285 such books?  
 A) 854760                      B) 857460                      C) 856470                      D) 854670
95. Every fraction can be converted into which of the following?  
 A) a decimal number      B) a whole number      C) a natural number      D) an integer
96. Which is the correct expanded form of 2.06 ?  
 A)  $(2 \times 10) + \left(6 \times \frac{1}{10}\right)$                       B)  $(2 \times 1) + \left(6 \times \frac{1}{10}\right)$   
 C)  $(2 \times 1) + \left(6 \times \frac{1}{100}\right)$                       D)  $(2 \times 10) + \left(6 \times \frac{1}{100}\right)$
97.  $5.01 - 3.6 = X$ . What is the value of X ?  
 A) 4.65                      B) 1.95                      C) 1.41                      D) 2.41
98.  $0.4 \times 0.4 \times 0.4 = ?$   
 A) 6.4                      B) 0.64                      C) 0.064                      D) 64
99. What is the decimal fraction shown by the shaded part of the figure given?  
  
 A) 2.5                      B) 0.5                      C) 0.6                      D) 0.4
100. The cost of 6 bananas is Rs 22.50 and the cost of 1.5 kg grapes is Rs 90.50 What is the total cost of the fruits?  
 A) Rs 113                      B) Rs 131                      C) Rs 118                      D) Rs 68

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**SPACE FOR ROUGH WORK**

## FOUNDATION - CLASS VII (STUDYING VI) - KEY

### PHYSICS

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

### CHEMISTRY

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

### BIOLOGY

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

### MATHEMATICS

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