

**FOUNDATION PROGRAMME CLASS VII 13-10-2019**  
**SCREENING CUM SCHOLARSHIP 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

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**SPACE FOR ROUGH WORK**

10. Unchecked use of loud speakers causes  
A) Noise pollution      B) Water pollution      C) Land pollution      D) Air pollutions
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 natural disaster is the sliding down of a mass of earth or rock from a mountain or cliff?  
A) Tsunami      B) Tornado      C) Thunderstorm      D) Landslide
15. What occurs when water flows or collects over land that is usually dry?  
A) dam      B) flood      C) flood way      D) levee
16. Magma is made up of  
A) Liquid water      B) Molten rocks      C) Fluids      D) Gas
17. A powerful earthquake that occurs below the sea can give rise to a  
A) Storm      B) Cyclone      C) Tsunami      D) Flood
18. The intensity of an earthquake is measured using  
A) Richter scale      B) Celsius scale      C) Barometer      D) Thermometer
19. Cyclone cause  
A) Hot weather      B) Heavy rains and strong winds  
C) Earthquakes      D) Tsunamis

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**SPACE FOR ROUGH WORK**

20. Tsunami is a Japanese word meaning  
 A) Flood wave                B) Cyclone wave                C) Harbour wave                D) Killer wave
21. All of the following are non renewable resources except?  
 A) Coal                        B) Animals                        C) Petroleum                        D) Natural gas
22. What is a machine?  
 A) A device that absorbs excess work  
 B) A device that change the way work is done  
 C) A device that increase the amount of work done  
 D) A device that decrease the amount of work done
23. What is kinetic energy?  
 A) Energy of motion  
 B) The sum of mechanical energy and potential energy  
 C) Stored energy due to position  
 D) Stored energy due to chemical composition
24. If there are no pedestrain crossings, which is the safest place to cross the road  
 A) on a bend                                B) behind a packed car  
 C) on a clear, straight road                D) on the brow of a hill
25. What are the steps that you need to do before crossing the road?  
 A) Stop, look and talk                        B) Close your eyes  
 C) Stop, look and listen for traffic                D) Keep walking

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**SPACE FOR ROUGH WORK**

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
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

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**SPACE FOR ROUGH WORK**

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
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. Which of these is not an example of an inclined plane  
A) Ladder  
B) Stairs  
C) Wall  
D) Drive way
40. What pulls a ball back to earth?  
A) Gas  
B) Gravity  
C) Friction  
D) Molecules
41. Why does a rolling ball stop?  
A) Gravity  
B) Friction  
C) Water falls  
D) Sand
42. What is push or pull of an object?  
A) Force  
B) Motion  
C) Friction  
D) Gravity

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SPACE FOR ROUGH WORK

43. What is the standard unit force is measured in?  
 A) Pounds                      B) Grams                      C) Newtons                      D) Meters
44. Uses of fuel includes  
 A) Produce steam to run engine                      B) Produce electricity in thermal power plants  
 C) Fuel in various industries                      D) All of these
45. Coal can be used as a  
 A) Fertilizer                      B) Purifier                      C) Fuel                      D) Insecticide
46. Land is polluted mainly by waste generated in  
 A) Industries                      B) Hospitals                      C) Households                      D) All of these
47. Match the following
- |                               |                              |
|-------------------------------|------------------------------|
| 1) Plastics                   | a) Waterborne diseases       |
| 2) Global warming             | b) effect of noise pollution |
| 3) Cholera and typhoid        | c) non-biodegradable         |
| 4) loss of hearing            | d) biodegradable             |
| 5) fruits and vegetables peel | e) effect of air pollution   |
- A) 1 → c; 2 → a; 3 → e; 4 → d; 5 → b                      B) 1 → c; 2 → e; 3 → a; 4 → b; 5 → d  
 C) 1 → b; 2 → c; 3 → d; 4 → a; 5 → d                      D) 1 → b; 2 → d; 3 → c; 4 → d; 5 → a
48. A first aid kit should contain  
 A) cotton wool                      B) Bandages  
 C) antiseptic creams and some other medicines                      D) all of the above

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**SPACE FOR ROUGH WORK**

49. Which of these is not a complex machine?  
A) Bicycle                      B) Car                      C) Washing machine      D) Nail clippers
50. What type of simple machine is found on the cap of a pickle jar?  
A) Lever                      B) Inclined plane      C) Pulley                      D) Screw
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 known as ‘clot master’  
A) Vitamin A                      B) Vitamin B                      C) Vitamin C                      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. The part of tooth visible above the gum is known as  
A) Root                      B) Cavity                      C) Crown                      D) Plaque
65. What is the name of the substance that gives skin & hair it’s pigment?  
A) Cerebrum                      B) Iris                      C) Melanin                      D) Quadriceps
66. Where does digestions begin in our body  
A) Stomach                      B) Food pipe                      C) Intestines                      D) Mouth
67. What substance are nails made of  
A) Keratin                      B) Skin                      C) Bone marrow                      D) Larynx
68. The bones around your chest that protect organs such as the heart are called  
A) Keratin                      B) Vertebrae                      C) Ribs                      D) Larynx

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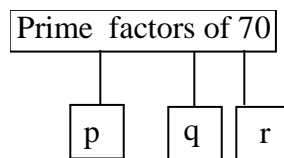
**SPACE FOR ROUGH WORK**

69. What does Vitamin C deficiency cause  
A) Ache                      B) Scurvy                      C) Boils                      D) Pellagra
70. Malnutrition can be cured by eating  
A) Carbohydrates & fats                      B) Only fruits & vegetables  
C) Junk food                      D) A balanced diet
71. \_\_\_\_\_ is an non-communicable disease  
A) Malaria                      B) Typhoid                      C) Diabetes                      D) Cholera
72. Rickets is caused due to the deficiency of  
A) Vitamin C                      B) Vitamin A                      C) Vitamin D                      D) Vitamin B
73. Tuberculosis spread by  
A) Contaminated air      B) Mosquito bite                      C) Through water                      D) None of these
74. Expand ORS  
A) Oral rehydration salt                      B) Over rehydration solution  
C) Oral rehydration solution                      D) Oral rehydration sugar
75. How can we cure Anaemia  
A) A diet containing Vitamin C                      B) Food items rich in Vitamin D  
C) Diet containing Vitamin A                      D) Food item rich in iron
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

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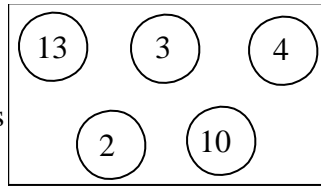
**SPACE FOR ROUGH WORK**

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



- A) 7                      B) 8                      C) 9                      D) 14

**SPACE FOR ROUGH WORK**



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

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

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**SPACE FOR ROUGH WORK**

89. If  $A + 1\frac{3}{4} = 2$ , A must be equal to
- A) 1                      B)  $\frac{3}{4}$                       C)  $\frac{1}{2}$                       D)  $\frac{1}{4}$
90. Anita works for 12 hours and sleeps for 6 hours . What fraction of the day does Anita sleep?
- A)  $\frac{6}{12}$                       B)  $\frac{12}{24}$                       C)  $\frac{6}{24}$                       D)  $\frac{18}{24}$
91. What is the value of  $\frac{2}{8} + \frac{1}{3} + \frac{7}{3}$
- A)  $\frac{10}{3}$                       B)  $\frac{35}{12}$                       C)  $\frac{30}{3}$                       D)  $\frac{10}{27}$
92. How many minutes in  $\frac{2}{3}$  of an hour?
- A) 40 minutes                      B) 60 minutes                      C) 20 minutes                      D) 100 minutes
93. Consider the following statement
- 1)  $\frac{1}{5}$  of Rs 10 is 200 paisa
- 2) There are 50 cm in  $\frac{1}{6}$ th part of 3 meters. Choose the correct option.
- A) Only statement 1 is true                      B) Only statement 2 is true  
C) Both 1 and 2 are true                      D) Both 1 and 2 are false

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SPACE FOR ROUGH WORK

94. O is the centre of a circle with points A and B on its circumference. Which of the following is true of O, A and B?
- A)  $OA + OB = AB$       B)  $OA = OB$       C)  $OA = 2OB$       D)  $AB = \frac{1}{2}OA$
95. The radius of a circle is 3 cm. What is the diameter of a circle whose radius is 3 times that of the given circle?
- A) 18 cm      B) 9 cm      C) 6 cm      D) 12 cm
96. What is the interval between 06:30 hours and 11:15 hours ?
- A) 5 hr 15 min      B) 5 hr 45 min      C) 4 hr 45 min      D) 4 hr 15 min
97. What time is it 120 seconds earlier than 14 : 25 hours?
- A) 2 : 23 pm      B) 2.45 pm      C) 2. 23 am      D) 2.45 am
98. Which of these years was a leap year ?
- A) 1996      B) 2003      C) 1993      D) 2002
99. How many hours are there in the month of April ?
- A) 30      B) 240      C) 720      D) 702
100. Meena takes 7 minutes 20 seconds to sew 8 buttons. How long does she take to sew one button?
- A) 45 seconds      B) 55 seconds      C) 50 seconds      D) 60 Seconds

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SPACE FOR ROUGH WORK

- |     |   |     |   |     |   |      |   |
|-----|---|-----|---|-----|---|------|---|
| 1.  | C | 26. | A | 51. | A | 76.  | C |
| 2.  | D | 27. | A | 52. | B | 77.  | C |
| 3.  | A | 28. | D | 53. | D | 78.  | C |
| 4.  | A | 29. | D | 54. | C | 79.  | A |
| 5.  | D | 30. | D | 55. | A | 80.  | B |
| 6.  | A | 31. | A | 56. | D | 81.  | A |
| 7.  | B | 32. | D | 57. | D | 82.  | C |
| 8.  | C | 33. | B | 58. | C | 83.  | D |
| 9.  | C | 34. | B | 59. | D | 84.  | C |
| 10. | A | 35. | C | 60. | D | 85.  | C |
| 11. | A | 36. | C | 61. | B | 86.  | A |
| 12. | D | 37. | C | 62. | C | 87.  | C |
| 13. | A | 38. | B | 63. | A | 88.  | A |
| 14. | D | 39. | C | 64. | C | 89.  | D |
| 15. | B | 40. | B | 65. | C | 90.  | C |
| 16. | B | 41. | B | 66. | D | 91.  | B |
| 17. | C | 42. | A | 67. | A | 92.  | A |
| 18. | A | 43. | C | 68. | C | 93.  | C |
| 19. | B | 44. | D | 69. | B | 94.  | B |
| 20. | C | 45. | C | 70. | D | 95.  | A |
| 21. | B | 46. | D | 71. | C | 96.  | C |
| 22. | D | 47. | B | 72. | C | 97.  | A |
| 23. | A | 48. | D | 73. | A | 98.  | A |
| 24. | C | 49. | D | 74. | C | 99.  | C |
| 25. | C | 50. | D | 75. | D | 100. | B |