

FOUNDATION PROGRAMME CLASS VI 27-12-2017
SCREENING CUM SCHOLARSHIP TEST

(Students who are studying in Class V)

PHYSICS + CHEMISTRY + BIOLOGY + MATHS

Time : 90 minutes	Number of Questions : 80	Maximum Marks : 320
Name of the Candidate :		
Signature of Candidate :		
Phone Number / Mobile No. :		
Name of the School Studying :		
Class Studying :		Roll. No.
Test Centre:	Signature of Invigilator	

INSTRUCTIONS

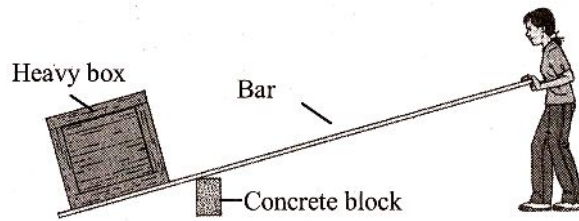
1. Please fill in the items such as name, signature, centre etc. of the candidate in the columns given above.
2. Please ensure question booklet code is printed on the top right corner of this page is same as in the OMR answer sheet.
3. This question booklet contains 80 questions. For each question, four 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. **No negative mark** for incorrect answer. More than one answer marked against a question will be deemed as an incorrect response. 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 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 80 QUESTIONS IN SERIAL ORDER. IF NOT, REQUEST FOR REPLACEMENT

1. The fixed point about which the lever turns is called the
A) fulcrum B) resistance C) effort D) Resistance arm
2. When the length of the inclined plane increases at a particular angle, the effort will
A) increase B) decrease C) constant D) infinity
3. In which of the following simple machine does the position of resistance lie in between effort and fulcrum
A) see-saw B) scissors C) knife D) bottle opener
4. Which force governs the large scale motions in universe ?
A) electrostatic force B) elastic force C) muscular force D) gravitational force
5. Which of the following is not the force at a distance
A) electrostatic force B) gravitational force C) frictional force D) magnetic force
6. A man holding a suitcase of mass 15 kg and was waiting for a bus from past 15 minutes. Then the work done is
A) 225 J B) 15J C) zero D) 30J
7. If force and displacement of particle in direction of force are doubled. Work would be
A) double B) 4 times C) half D) $\frac{1}{4}$ times
8. Same amount of work has to be done on two objects A and B of same mass by applying force of 8N and 16N respectively. Then A will displace
A) more than object B B) less than object B
C) same as B D) cannot say

SPACE FOR ROUGH WORK

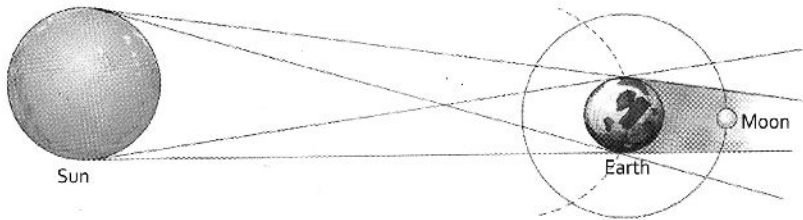
9. The girl in the picture below is using a long bar to lift a heavy box. Using the bar makes the girl's task easier by



- A) reducing the input force
B) reducing the box's mass
C) increasing the amount of work done
D) increasing the distance of the box is lifted
10. The speed of light is
A) 330 m/s B) 300,000,000 m/s C) 30,000 m/s D) 300,000,00 m/s
11. Which of the following is a reflector of light
A) sun B) moon C) star D) filament
12. Identify the positions of asteroids in the solar system
A) between mercury and earth B) between earth and mars
C) between mars and jupiter D) between mercury and venus
13. Which is the odd one among the following objects
A) ground glass B) oil paper C) rubber sheet D) wood
14. What is the name of the second artificial satellite launched by India
A) Bhaskara I B) Rohini C) Aryabhata D) Chandrayan I
15. In which of the following medium the velocity of sound will be maximum
A) water B) steel C) wood D) air

SPACE FOR ROUGH WORK

16. A big explosion on the moon cannot be heard on the earth
- A) the explosion produces high frequency sound waves which are in audible
 - B) sound waves required a material medium for propagation
 - C) sound waves are absorbed in the moon's atmosphere
 - D) sound waves are absorbed in the earth's atmosphere
17. Which of the following statements is wrong
- A) sound is produced by a vibrating body
 - B) sound is a form of energy
 - C) sound travels in the form of waves
 - D) sound travel faster in vaccum than in air
18. A place where an earthquake originates is called the
- A) focus
 - B) tsunami
 - C) fault line
 - D) epicentre
19. Observe the figure given below and identify the phenomena



- A) solar eclipse
 - B) lunar eclipse
 - C) new moon
 - D) phase
20. Which of the following is called red planet ?
- A) Venus
 - B) Mercury
 - C) Mars
 - D) Jupiter

SPACE FOR ROUGH WORK

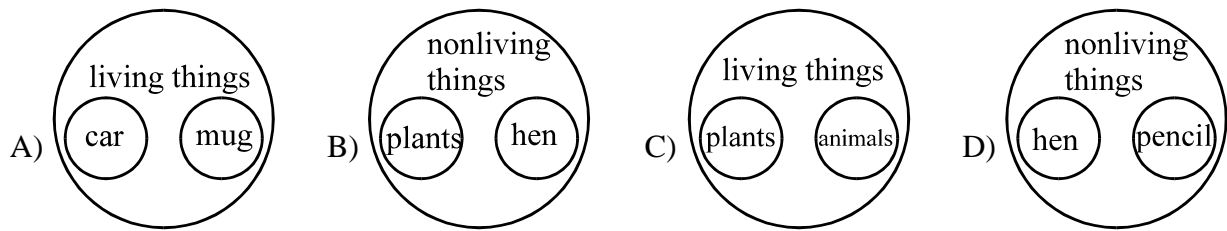
21. The blanket of gases that surrounds earth is
A) Air B) Atmosphere C) Lithosphere D) Biosphere
22. Changes of weather occurs in
A) Thermosphere B) Mesosphere C) Stratosphere D) Troposphere
23. Bacteria that helps plants to get atmospheric nitrogen
A) Lactobacillus B) Rubella C) Rhodospirello D) Rhizobium
24. The gas which keeps the process of burning under control
A) Oxygen B) Helium C) Nitrogen D) Argon
25. Hot air balloon rises up in the air because?
A) Hot air is heavier than cold air
B) Hot air is lighter than cold air
C) Hot air does not play any role in rising up the balloon
D) Hot air contains water vapours which push up the balloon
26. Clothes dry faster when there is water vapour in air
A) less B) more C) either less or more D) none of these
27. A gas is colourless odourless heavier than air and extinguishes fire. Name the gas?
A) Nitrogen B) Carbondioxide C) Hydrogen D) Oxygen
28. Which one of the following statement is true?
A) Air is opaque B) Air is made of one substance only
C) Air contains water vapour D) Air contains large amount of inert gases
29. The outermost layer of atmosphere is
A) Troposphere B) Mesosphere C) Stratosphere D) Exosphere
30. The gas which filled in weather balloons is
A) Argon B) Helium C) Krypton D) Neon

SPACE FOR ROUGH WORK

31. Which one of the following is an example of non renewable resources?
A) Wind B) Water C) Vegetation D) Coal and minerals
32. is the major raw material for biogas
A) Plant leaves B) Cow dung C) Mud D) Grasss
33. Which of the following is not a fossil fuels?
A) Natural gas B) Petrol C) Coal D) Uranium
34. Floods can be prevented by
A) Afforestation B) Cutting the forests C) Tilling the land D) Removing the top soil
35. The death of the last individual of a species is called
A) extinction B) clad C) neither a or b D) species diversity
36. Primary source of water is
A) Rivers B) Ground water C) Lakes D) Rain water
37. Choose the best fire extinguisher
A) Oxygen B) Water C) Carbondioxide D) Blanket
38. Which of the following represents correct order of abundance of various gases in air
A) Nitrogen > Oxygen > Carbondioxide > Argon
B) Organ > Nitrogen > Argon > Carbondioxide
C) Oxygen > Nitrogen > Carbondioxide > Argon
D) Carbondioxide > Nitrogen > Oxygen > Argon
39. Which of the renewable resources takes a comparatively longer time to renew itself?
A) Wind B) Solar energy C) Both A and B D) Forests
40. Minerals like Gold, Silver etc are
A) Recyclable B) Non recyclable C) Renewable D) Both A and C

SPACE FOR ROUGH WORK

41. A condition in which there is swelling and pain in joints is called
 A) diabetes B) goitre C) arthritis D) scurvy
42. Sunlight is the natural source of vitamin
 A) C B) A C) K D) D
43. Which one is a characteristic of a living thing
 A) living things do not grow B) living things cannot move from place to place
 C) living things need food to live D) None of the above
44. Plants are producers because they
 A) make their own food B) can grow in soil C) need water to grow D) take in nutrients
45. Choose the correct option



46. Number of chambers in human heart
 A) Three B) Two C) Four D) One
47. All life begins with a single
 A) organ B) tissue C) cell D) microbe
48. Which organ belongs to the digestive system
 A) Nose B) Lungs C) stomach D) Heart
49. What is the job of circulatory system
 A) digestion B) excretion C) blood circulation D) reproduction

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50. Which of the two things in the list are microorganisms?
1) Bacteria 2) Mosquito 3) Seaweed 4) Virus
A) 1 and 3 B) 2 and 3 C) 1 and 4 D) 3 and 4
51. Which organ system helps us in breathing
A) Muscular B) Respiratory C) Lymphatic D) Endocrine
52. Which of the following organ system secretes hormones in blood stream
A) digestive system B) skeleton system C) lymphatic system D) endocrine system
53. The control centre of a cell is the
A) chromosome B) nucleus C) cytoplasm D) cell membrane
54. What is first aid ?
A) Completing primary survey B) The first help given to the victim of an accident
C) Assessing a victim's vital signs D) Treating a victim for shock
55. Which part of the plant makes food for the plant ?
A) root B) leaves C) stem D) fruit
56. Which part of the plant prevents soil erosion ?
A) stem B) flower C) root D) leaves
57. The process of loss of water by a plant through its leaves is called
A) photosynthesis B) condensation C) transpiration D) evaporation
58. The process in which plant make their food is called
A) photosynthesis B) photolysis C) penosis D) mitosis
59. The mode of nutrition in a green plant is
A) heterotrophic B) saprophytic C) autotrophic D) holozoic
60. Animals that begin their life in water and live the rest of their life in land are called
A) mammal B) amphibians C) reptiles D) birds

SPACE FOR ROUGH WORK

61. The predecessor of 9999999
 A) 99998 B) 999998 C) 1000000 D) 100000
62. Which of the following number is an 8- digit number
 A) 100 thousand B) 1 million C) 10 million D) 100 million
63. The standard form of 5 lakhs + 4 ten thousands + 9 ones
 A) 540009 B) 54009 C) 549 D) 504009
64. The smallest 5 digit number using digits 3,0,1,2,7
 A) 01237 B) 10237 C) 12307 D) 12370
65. Amina bought $\frac{3}{8}$ metre of a red ribbon and $\frac{1}{2}$ metre of a blue ribbon. What is the total length of ribbon that she bought?
 A) $\frac{1}{5}$ B) $\frac{3}{16}$ C) $\frac{7}{16}$ D) $\frac{7}{8}$
66. $12\frac{3}{4} - \frac{7}{15} =$
 A) $\frac{737}{60}$ B) $\frac{735}{60}$ C) $\frac{733}{60}$ D) $\frac{734}{60}$
67. Shilpa has bought 3kg of dry fruits. She wants to pack them in gift packs of $\frac{1}{4}$ kg each. How many gift packs will she be able to make ?
 A) 3 B) 4 C) 7 D) 12
68. Reema brought 56 toffees to the class on her birthday. She distributed half the toffees among the children of her class. She gave one - eighth of the toffees to her teacher and one -fourth of the toffees to the children in her school bus. How many toffees was she left with ?
 A) 5 B) 6 C) 7 D) 8
69. Jugnu and 14 of his friends went to a Fun Park. The cost of a ticket was Rs 25.50. How much money did pay for entering the park?
 A) Rs. 356 B) Rs .357 C) Rs.358 D) Rs.359

SPACE FOR ROUGH WORK

70. $\frac{2}{6}$ of an hour is
A) 10 minutes B) 20 minutes C) 30 minutes D) 40 minutes
71. The place value of 3 in the number 21.36 is
A) 3 ones B) 3 tens C) 3 tenths D) None of these
72. Vikrant runs a distance of 4.5 km in 5 rounds of the park. How much distance does he cover in 1 round?
A) 0.6 km B) 0.7 km C) 0.8 km D) 0.9 km
73. $64.05 \div 15 =$
A) 42.7 B) 4.27 C) 0.427 D) 4.027
74. An acute angle is
A) $> 90^\circ$ B) $< 90^\circ$ C) $= 90^\circ$ D) $= 180^\circ$
75. The number of quarters in a circle is
A) 1 B) 2 C) 3 D) 4
76. The common end point of two rays is called
A) vertex B) arm C) line segment D) triangle
77. The shortest distance and a straight path between two points is
A) vertex B) arm C) line segment D) triangle
78. Find the length of the wall needed to fence a rectangular garden of length 18.4 m and breadth 6.6 m
A) 40 m B) 50 m C) 60 m D) 70 m
79. A square field has a perimeter of 480 m . What is the length of its side?
A) 120 m B) 240 m C) 180 m D) 60 m
80. What will be the cost of mowing grass in a rectangular field of dimensions 240m by 120 m at Rs. 10 per sq. m?
A) Rs. 28800 B) Rs. 268000 C) Rs. 288000 D) Rs. 26800

SPACE FOR ROUGH WORK

Name

Batch..... Roll No.

27-12-2017

FOUNDATION SCREENING TEST

Class: VI

FN_{17M}/TP/

Physics

PHYSICS

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

CHEMISTRY

21. B
22. D
23. D
24. C
25. B
26. A
27. B
28. C
29. D
30. B
31. D
32. B
33. D
34. A
35. A
36. D
37. C
38. A
39. D
40. A

BIOLOGY

41. C
42. D
43. C
44. A
45. C
46. C
47. C
48. C
49. C
50. C
51. B
52. D
53. B
54. B
55. B
56. C
57. C
58. A
59. C
60. B

MATHS

61. B
62. C
63. A
64. B
65. D
66. A
67. D
68. C
69. B
70. B
71. C
72. D
73. B
74. B
75. D
76. A
77. C
78. B
79. A
80. C