



Brilliant STUDY CENTRE

PALA

FOUNDATION PROGRAMME CLASS VI 01-11-2020
SCREENING CUM SCHOLARSHIP TEST

(Students who are studying in Class V)

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 80 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** mark each. There will be no negative marks.
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.

1. Which of the following is not a possible outcome produced when we apply a force on an object
A) object is set into motion B) object is stopped
C) object disappears D) shape of the object changed
2. When a weak man pushed a rigid wall and the wall is not displaced. The work done by man will be
A) positive B) negative C) zero D) cannot predict
3. How many dynes are equal to 1 newton?
A) 10^6 B) 10^4 C) 10^5 D) 10^3
4. Which of the following is a contact force?
A) gravitational force B) frictional force
C) electrostatic force D) All of these
5. When a rock is brought from moon to earth
A) weight increases but mass decreases
B) weight decreases but mass increases
C) weight increases but mass will not change
D) weight will not change but mass change
6. Which of the following planet is known as red planet?
A) Mars B) Venus C) Saturn D) Earth
7. If a body weighs 60 units in earth. How much it will weight in moon?
A) 6 units B) 360 units C) 100 units D) 10 units
8. In electrical fan, electrical energy is converted into
A) Sound energy B) Mechanical energy C) Potential energy D) None of these

SPACE FOR ROUGH WORK

9. Convert 5 Joule to erg
A) 5×10^7 erg B) 5×10^5 erg C) 5×10^8 erg D) 2×10^7 erg
10. Which of the following quantity have both magnitude and direction
A) Force B) Work C) Energy D) All of these
11. Everybody in the universe attracts every other body with a force called
A) Frictional force B) Gravitational force C) Electrostatic force D) Nuclear force
12. Acceleration produced on a body which is falling under gravity is
A) 0 B) 9.8 m/s^2 C) 1.65 m/s^2 D) 19.6 m/s^2
13. Which type of energy a moving bus possess?
A) Potential energy B) Kinetic energy C) Electrostatic energy D) None of these
14. Potential energy is the energy possessed by a body by virtue of
A) Position B) State C) Strain D) All of these
15. When a body of mass 2 Kg is accelerated by 4 m/s^2 . The force experienced by it is
A) 2 newton B) 4 newton C) 8 newton D) 0.5 newton
16. The commercial unit of electrical energy is
A) calorie B) kilowatt hour C) joule D) erg
17. Universal law of gravitation was formulated by
A) John Kepler B) Galilio C) Newton D) Einstein
18. When you kick a foot ball, it will move because of the application of
A) Force B) Velocity C) Acceleration D) None of these

SPACE FOR ROUGH WORK

19. A book resting on a table is an example of
A) Unbalanced force B) Balanced force C) Non contact force D) None of these
20. The device used to measure force acting on an object is
A) Barometer B) Spring balance C) Altimeter D) Hygrometer
21. The major component in air is
A) Oxygen B) Nitrogen C) Carbon Dioxide D) Helium
22. Dry ice is
A) Solid CO₂ B) Liquid Oxygen
C) Pure Nitrogen gas D) Solid Sulphur dioxide
23. Boiling point of water is
A) 0°C B) 63.5°C C) 100°C D) 82°C
24. pH of rainwater is
A) 5.6 B) 3.2 C) 6.8 D) 7.3
25. Which among the following are properties of matter?
A) Posses no mass, but occupies space
B) Posses mass but occupies no space
C) Posses mass and occupies space
D) Posses no mass and occupies no space
26. The process by which wet clothes dry up is called
A) Evaporation B) Boiling C) Condensation D) Solidification

SPACE FOR ROUGH WORK

27. have definite volume but no definite shape
- A) Solids B) Gases C) Liquids D) None of these
28. Sublimable substances among the following is/are
- A) Iodine B) NH_4Cl C) Camphor D) All of these
29. Which of the following is a mixture?
- A) Water B) Air C) Common salt D) Plaster of paris
30. The amount of water recommended by the UN for drinking, washing, cooking and maintaining proper for hygiene person per day is a minimum of
- A) 5L B) 15L C) 30L D) 50L
31. Water exist in
- A) five different forms B) three different forms C) only one form D) two different forms
32. Process of recharging ground water using rain water is called
- A) Drip irrigation B) Water harvesting C) Bawri D) Infiltration
33. Sewage treatment
- A) is a process of wastewater treatment
- B) refers to waste that is released by homes, industries, hospital
- C) refers to the rain water that run down the streets during heavy rains
- D) all the above
34. A form of matter has no fixed shape, but it has fixed volume. An example of this form of matter is
- A) Krypton B) Kerosene C) Carbon steel D) CO_2

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35. On converting 308 K to degree Celsius scale, the temperature is
A) 35°C B) 18°C C) 63°C D) 22°C
36. Which of the following is not a green house gas?
A) CO₂ B) CH₄ C) O₃ D) N₂
37. Which of the following has the strongest interparticle forces at room temperature?
A) Oxygen B) Water C) Bromine D) Iron
38. Atmospheric pressure is measured by
A) Barometer B) Manometer C) Screw gauge D) None of these
39. The fifth state of matter is
A) Plasma B) Bose-Einstein condensate
C) Fermion condensate D) Gas
40. Green house effect
A) Lowers global temperature
B) helps to keep earth's atmosphere warm
C) Leads to thickening of polar ice cap
D) None of these
41. Second largest part of brain
A) Cerebrum B) Cerebellum C) Pons D) Medulla
42. The human cell which has least power of regeneration
A) Sperm B) Skin C) Neuron D) Liver cell

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43. Average weight of our kidney is in between
A) 100 and 120 gms
B) 220 and 270 gms
C) 80 and 100 gms
D) 120 and 170 gms
44. Normal average heart beat of an individual
A) 72 per min
B) 82 per min
C) 62 per min
D) 100 per min
45. The following is a reflex action
A) Eating
B) Blinking of eyes
C) Running
D) Urination
46. Longest bone in our body
A) Femur
B) Humerus
C) Tibia
D) Fibula
47. The following is a communicable disease
A) Cancer
B) Diabetes
C) Heart attack
D) Covid-19
48. The following is a tailed amphibian
A) Frog
B) Salamander
C) Wall lizard
D) Tadpole
49. Cellular fragment which helps in clotting of blood is
A) Albumin
B) Red blood cell
C) White blood cell
D) Platelets
50. Artery which carries de-oxygenated blood
A) Pulmonary vein
B) Pulmonary artery
C) Aorta
D) Vena cava

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51. Group of cells which perform same function is called
A) Organ system B) Organ C) Tissue D) Muscle
52. Knee joint is an example of
A) Hinge joint B) Ball and socket joint C) Gliding joint D) Fibrous joint
53. The female reproductive part of flower is called
A) Pollen grain B) Pistil C) Stamen D) Anther
54. Utilization of absorbed food is called
A) Assimilation B) Absorption C) Ingestion D) Defecation
55. The following is a Carnivorous plant
A) Money plant B) Touch me not plant C) Bougain villa D) Drosera
56. Marsh gas is
A) Ethane B) Methane C) Sulphur dioxide D) Nitrogen dioxide
57. Fangs are
A) Poisonous teeth of Lion B) Teeth of rat
C) Teeth of tiger D) Poisonous teeth of snakes
58. Taste buds for bitter are situated
A) Back of the tongue B) front of the tongue
C) Side of the tongue D) just behind the sweet taste buds

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59. Match the following

Column-I	Column-II
1) Vinegar	a) Citric acid
2) Milk	b) Tartaric acid
3) Tamarind	c) Lactic acid
4) Lemon	d) Acetic acid

A) 1 – b; 2 – c; 3 – a; 4 – d

B) 1 – d; 2 – c; 3 – b; 4 – a

C) 1 – b; 2 – c; 3 – d; 4 – a

D) 1 – a; 2 – c; 3 – d; 4 – b

60. The following is an underground stem

A) Sweet potato

B) Potato

C) Carrot

D) Rad

61. Which of the following numbers is the largest

A) 120351

B) 99999

C) 98765

D) 100000

62. Sum of all factors of 15 is

A) 23

B) 8

C) 24

D) 9

63. Which of the following pair of numbers are co-prime. (Two numbers are said to be co-prime when they have no common factors other than 1)

A) 3, 15

B) 9, 4

C) 8, 6

D) None of these

64. Which is the smallest common multiple of 4, 6 and 5

A) 120

B) 40

C) 60

D) 15

SPACE FOR ROUGH WORK

65. Which of the following numbers is not divisible by 3
A) 93 B) 45 C) 28 D) 63
66. Smallest five digit number made by using all the digits 0, 2, 5, 7, 9
A) 02579 B) 25790 C) 20579 D) 975520
67. If a number is divisible by 2 and 3 then that number is divisible by
A) 5 B) 6 C) 7 D) 8
68. Which of the following is not a factor of 36
A) 2 B) 4 C) 6 D) 8
69. Which of the following is the smallest 5 digit number
A) 12345 B) 11111 C) 10000 D) None of these
70. If a number is divided by 16, Ramu got the answer 48, which is the number
A) 3 B) 768 C) 6 D) 720
71. $80000 + 7000 + 200 + 5 =$
A) 8725 B) 87250 C) 87205 D) None of these
72. If the sum of the digits of a number is 15, then that number is divisible by
A) 2 B) 3 C) 5 D) 7
73. The successor of the number 89099 is
A) 90000 B) 9000 C) 81000 D) 89100

SPACE FOR ROUGH WORK

74. Which of the following options is the correct number name for the number 3, 25, 63, 367
- A) Three lakhs twenty five thousand three hundred sixty seven
B) Thirty two crore five lakhs sixty three thousand three hundred and sixty seven
C) Three crore twenty five lakhs sixty three thousands and three hundred and sixty seven
D) None of these
75. 3 minutes =
- A) 18 seconds B) 180 hours C) 180 seconds D) 18 hours
76. Which of the following numbers is greater than 98256
- A) 100021 B) 98265 C) 90999 D) A and B
77. If diameter of a circle is 18cm then its radius is
- A) 36 B) 30 C) 15 D) 9
78. 329 is divisible by
- A) 7 B) 13 C) 3 D) None of these
79. Three fourth of 24 is
- A) 6 B) 18 C) 20 D) 4
80. A product of two numbers is 91, one of the number is 7 then the other number is
- A) 23 B) 33 C) 13 D) None of these

SPACE FOR ROUGH WORK

FOUNDATION - CLASS VI (STUDYING V) - KEY

PHYSICS

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

CHEMISTRY

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

BIOLOGY

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

MATHEMATICS

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