



Brilliant STUDY CENTRE PALA

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

(Students who are studying in Class VI)

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 100 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** marks and one mark will be deducted for each incorrect answer. No negative marks for unattended questions.
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 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
2. Force acting on per unit area is called
 - A) Constant force
 - B) Pseudo force
 - C) Frictional force
 - D) Pressure
3. Force can change
 - A) Motion of body
 - B) Speed of body
 - C) Shape of body
 - D) All of these
4. 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
5. 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
6. The centre of cyclone is called
 - A) Tail
 - B) Eye
 - C) Head
 - D) Mouth
7. In philippines cyclone is known as
 - A) Hurricane
 - B) Tornodoes
 - C) Typhoon
 - D) Tsunami
8. 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 fornado 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

SPACE FOR ROUGH WORK

9. Anemometer is used to measure
A) Wind speed B) Temperature C) Pressure D) Humidity
10. Distance travelled by light in one year is known as
A) Solar day B) Light year C) Astronomical unit D) One shake
11. 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
12. The star lies close to the axis of rotation of the earth is
A) Alpha centauri B) Pole star C) Sirius D) Betelgeuse
13. The Ursa major is also known as
A) Saptarshi B) Big Dipper C) Great bear D) All of these
14. Which of the following is incorrect
A) Sun is the nearest star from us
B) It is continuously emitting huge amounts of heat and light
C) Planets have light of their own
D) Planets merely reflect the sunlight that falls on them
15. Any body revolving around a planet is known as
A) Satellite B) Orbit C) Comet D) None of these
16. Which of the following is not a constellation?
A) Great Bear B) Leo Major C) Orion D) Sirius
17. Which of the following is true
A) Mercury is nearest to pluto B) Venus is nearest to sun
C) Mercury has no satellite of its own D) Venus has two moon
18. Which is the brightest planet in the sky?
A) Mercury B) Jupiter C) Venus D) Saturn
19. Which of the following is incorrect?
A) Jupiter is the largest planet of the solar system
B) Mass of Jupiter is 318 times that of earth
C) Jupiter has no satellites
D) Jupiter has faint rings around it

SPACE FOR ROUGH WORK

20. Which planet is least dense?
A) Saturn B) Earth C) Mars D) Venus
21. Which of the following does not belong to inner planets?
A) Mercury B) Venus C) Earth D) Saturn
22. Time period of Halley's comet is
A) 76 years B) 86 years C) 216 years D) 116 years
23. Halley's comet was last seen in
A) 1986 B) 1976 C) 1996 D) 1997
24. Shooting stars are known as
A) Asteroids B) Comets C) Meteors D) None of these
25. Which is the first Indian Artificial Satellite?
A) Arya Bhatta B) INSAT C) Rohini D) EDUSAT
26. Petroleum is formed from
A) Domestic animals B) Organisms in sea C) Wild animals D) Insects
27. Petroleum is mixture of
A) Petrol B) Diesel C) Petroleum gas D) All of these
28. 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
29. Refining is
A) Extracting petroleum gas B) Separation of various fractions of petroleum
C) Heating of coal D) Sedimentation of fossil fuel
30. LPG is used in / as
A) Home B) Vehicles C) Aviation Fuel D) Road surfacing
31. CNG is stored under
A) High temperature B) High pressure C) Kerosine D) none of these

SPACE FOR ROUGH WORK

32. CNG is used for
A) Power generation B) Electric generators C) Solvent D) None of these
33. In India, vast reserves of natural gas are found in
A) Tripura B) Rajasthan C) Maharashtra D) All of these
34. Burning of fossil fuel causes
A) Air pollution B) Global warming C) Both (A) & (B) D) None of these
35. Which of the following is necessary for a substance to burn?
A) Light B) Gasoline C) Oxygen D) Hydrogen
36. Which gas in the upper atmosphere saves us from the UV rays of the sun?
A) Nitrogen B) Oxygen C) Ozone D) Carbon Monoxide
37. Dry ice is
A) Solid Carbon Dioxide B) Very Cold Ice C) Ice with salt added D) Any Frozen Liquid
38. What is the name given to the respiratory holes on the surface of a leaf?
A) Chlorophyll B) Stomata C) Tendrils D) Pits
39. The lower, dense region of the atmosphere is known as
A) Ionosphere B) Troposphere C) Stratosphere D) Hydrosphere
40. A space that contains no air or any gas is known as
A) Vacuum B) Hollow C) Pressurized Cabin D) Bubble
41. Combustion cannot take place without
A) water B) carbon C) air D) zinc
42. Air solubility of water is defined as the ability of air to be dissolved in
A) space B) container C) gas D) water
43. Who is known as the father of Modern Chemistry?
A) Kolvey B) Wholer C) Lavoisier D) Pasteur.
44. The Nobel Prize in Chemistry was jointly awarded to
A) Emmanuelle Charpentier and Jennifer A. Doudna
B) Roger Penrose, Reinhard Genzel and Andrea Ghez
C) Drs. Harvey J. Alter, Michael Houghton
D) Greta Tunberg

SPACE FOR ROUGH WORK

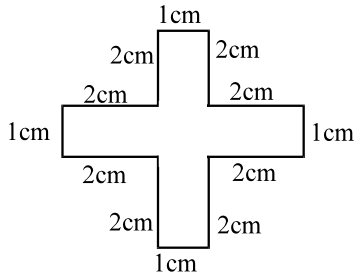
45. What is the hottest continent on Earth?
A) Asia B) Europe C) Africa D) South America
46. Which instrument is used for measuring wind speed?
A) Barometer B) Altimeter C) Voltmeter D) Anemometer
47. Which part of the plant take up the nutrients and water ?
A) Steam B) Roots C) Leave D) None of These
48. Genetics is the study of
A) mRNA B) RNA C) genes D) None of These
49. Light is absorbed by some substances, these substances are known as
A) Salt B) pigment C) surface D) None of These
50. What is Rodenticide?
A) A medicine to kill worms B) A medicine to kill animals
C) A lubricant D) A pesticide
51. 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
52. Vitamin, that helps to avoid night blindness is ____
A) Vit. A B) Vit. C C) Vit.E D) Vit.K
53. _____ is mainly helping for the regeneration and repairing of cells
A) Carbohydrate B) Fats C) Proteins D) Vitamins
54. Which of the following is an infectious disease
A) Tuberculosis B) Cancer C) Diabetes D) Scurvy
55. Which of the following is an example of innate immunity
A) Skin B) Vaccination C) Injection D) Acquired immunity
56. Hardest substance of all body parts
A) Bone B) Skull C) Enamel D) Dentine
57. _____ provide food to the seedling until the leaves makes enough food for the plant
A) Cotyledons B) Radicle C) Plumule D) Embryo

SPACE FOR ROUGH WORK

63. Which of the following is an example of plant adaptations in the desert
 A) Plants have supporting roots
 B) Thick cuticle and sunken stomata
 C) Roots modified for doing photosynthesis
 D) Roots and root hairs are absent
64. _____ are grinding teeth
 A) Incisors B) Canines C) Molars D) All of the above
65. The leaves of plants that can be eaten as food
 A) Cauliflower B) Spinach C) Mango D) Potato
66. Excretion of solid urine and nocturnal habits are the adaptation of animals lives in
 A) Polar region B) Desert C) Rain forest D) Mountains
67. Milk, Cheese and butter milk are rich source of
 A) Iron B) Iodine C) Calcium D) Vit.K
68. Which one of the following disease is a vector borne disease
 A) Typhoid B) Malaria C) Ring worm D) Tuberculosis
69. _____ live in cold, high mountainous regions of Himalayas
 A) Black bucks B) Yaks C) Wild ass D) Camel
70. Plants stored prepared food in the form of
 A) Water B) Starch C) Glycogen D) O₂
71. _____ is the First part of a seedling during germination
 A) Radicle B) Plumule C) Leaf D) Bark
72. Polio vaccine is used to _____
 A) Fight against the polio virus B) Reduce the symptoms by virus
 C) Recover from the symptoms D) Completely cure the disease
73. _____ is an example of herbs
 A) Carrot B) Lemon C) Mango D) Bitter gourd
74. _____ are producers
 A) Animals B) Green plants C) Both animals and plants D) Insects

SPACE FOR ROUGH WORK

75. Ability of an organism to fight against disease causing micro organism
 A) Survival B) Immunity C) Adaptation D) Evolution
76. 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
77. The perimeter of the figure is :



- A) 5 cm B) 10 cm C) 15 cm D) 20 cm
78. 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
79. 392600 apples are packed equally in 1208 boxes. How many apples are packed in a box?
 A) 335 B) 345 C) 325 D) 315
80. 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
81. A Maths book cost Rs. 136. What is the cost of 6285 such books?
 A) 854760 B) 857460 C) 856470 D) 854670
82. 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

SPACE FOR ROUGH WORK

83. 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) $(2 \times 10) + \left(6 \times \frac{1}{100}\right)$

84. $5.01 - 3.6 = X$. What is the value of X ?

A) 4.65

B) 1.95

C) 1.41

D) 2.41

85. $0.4 \times 0.4 \times 0.4 = ?$

A) 6.4

B) 0.64

C) 0.064

D) 64

86. 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

87. 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

88. Which is the least decimal number?

A) 11.01

B) 11.11

C) 11.05

D) 11.5

89. How is $\frac{6}{25}$ represented as a decimal?

A) 2.4

B) 0.24

C) 0.024

D) 2.04

90. Decimal number part of 7.25 is

A) 7

B) 0.2

C) 0.25

D) 0.05

91. By what number should $1\frac{2}{3}$ be divided to get $\frac{2}{3}$?

A) $\frac{3}{2}$

B) $\frac{5}{3}$

C) $\frac{2}{5}$

D) $\frac{5}{2}$

SPACE FOR ROUGH WORK

92. $1.1 \times .01 \times 1$ is
 A) 1 B) 1.1 C) .011 D) .01
93. Simplify $4.5 + [9.5 + \{4.5 - (6.5 - 3.5)\}]$
 A) 7 B) 5.5 C) 4.5 D) 15.5
94. Find the value $4\frac{5}{6} - 2\frac{3}{8} + 3\frac{7}{12}$
 A) $\frac{30}{4}$ B) $13\frac{3}{4}$ C) $\frac{145}{24}$ D) $\frac{144}{24}$
95. The product of the place values of two threes in 53432 is :
 A) 9000 B) 90000 C) 10000 D) 99000
96. The difference between the greatest and the smallest numbers which when rounded off to the nearest thousand as 9000 is :
 A) 1000 B) 990 C) 999 D) 900
97. The difference between the largest 3 digit number and the largest 3 digit number with distinct digits is :
 A) 10 B) 0 C) 12 D) 13
98. The number of 3 digit numbers formed by using digits 3, 5, 9 taking each digit exactly once is :
 A) 3 B) 4 C) 5 D) 6
99. In the international place value system we write one million for :
 A) 1 lakh B) 10 lakh C) 100 lakh D) 1 crore
100. If a bicycle wheel has 36 spoke, then the angle between a pair of adjacent spokes is :
 A) 10° B) 15° C) 20° D) 12°

SPACE FOR ROUGH WORK

FOUNDATION - CLASS VII (STUDYING VI) - KEY

PHYSICS

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

CHEMISTRY

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

BIOLOGY

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

MATHEMATICS

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