



INTSO EDUCATION

SCIENCE TALENT SEARCH OLYMPIAD (STSO) 2016-17

STAGE - 1

TIME : 60 min.

CLASS : III

Max. Marks : 50

Instructions:



- ⇒ Fill the OMR sheet completely and carefully.
- ⇒ Each question carries one mark and has only one correct answer. No negative marks
- ⇒ The question paper contains 50 questions to be answered in 60 minutes.

PHYSICS


1. All the planets revolves around the sun due to _____ force []
1) Frictional force 2) Gravitational force 3) Electric force 4) Magnetic force
2. To move an object on the rough surface []
1) Force is necessary to apply on object
2) Force need not necessary to apply on object
3) Only some times force is not necessary to apply on object
4) Only some times force is necessary to apply on object
3. When you throw a marble on a floor it stops after some time because []
1) Air around the marble opposes the motion
2) Gravitational force of earth opposes the motion
3) Frictional force between floor and marble opposes the motion
4) All the above
4. When a person waiting for a bus, then []
1) The work done by the person is zero
2) The work done by the person is not zero
3) The work done by the person is greater than zero
4) The work done by the person is less than zero
5. Among the following the natural source of light energy is []
1) Tubelight 2) Sun 3) Moon 4) Candle
6. When a body changes its position, then it is in []
1) Motion 2) Friction 3) Rest 4) Acceleration
7. Which type of energy allows us to feel the temperature get higher? []
1) Light 2) Heat 3) Radiant 4) Chemical
8. Frictional force is a _____ force []
1) Contact 2) Non contact 3) Field force 4) All the above
9. Energy means that []
1) Ability to walk 2) Ability to push or pull
3) Ability to do work 4) All the above
10. It takes less effort to []
1) Drag the things 2) Slide the things 3) Role the things 4) All the above

25. A substance which dissolves in a liquid is called []
 1) solute 2) solvent 3) solution 4) all
26. Rani's grand mother is boiling water in a steel utensil by keeping the plate on the utensil. After some time she found water droplets are formed on the innerpart of the plate. It was happend due to []
 1) Evaporation of water 2) Freezing of water
 3) Condensation of water vapour 4) All of these
27. _____ in the air forms clouds []
 1) water 2) ice 3) water vapour 4) all
28. Examine the following statements :
Statement A : Ploar ice is melting slowly. This activity increases the sea level.
Statement B : Gases in the atmosphere release heat energy from the sun.
 Which one of the following is correct with regard to the above statements ? []
 1) Only Statement A is correct 2) Only Statement B is correct
 3) Both Statement A and Statement B are correct
 4) Both Statement A and Statement B are incorrect
29. Arrange the following substances in the increasing order of force of attraction between the particles []
 i) Natural gas ii) Salt iii) Kerosene
 1) $i > ii > iii$ 2) $i < iii < ii$ 3) $i < ii < iii$ 4) $iii < ii < i$
30. A student does the following :
Task 1 : Takes a piece of wood and cut it into small various pieces.
Task 2 : Takes a one glass of water and keep it into the freezer to freeze it.
Task 3 : Takes one glass of water and little sugar. He dissolves the sugar into the water.
Task 4 : Takes a piece of wood and burns it.
 Which of the above mentioned tasks is / are the example(s) of physical change ? []
 1) Task 1, 2, 3 and 4 2) Task 1, 2 and 4 3) Task 1, 2 and 3 4) Task 4 only
31. The tiny grains that make up rocks are called _____. Some rocks are made of _____ type of grains while others are made of several types of grains. Diamond is the hardest _____ while _____ is a soft rock. []
 Select the option which consists of words that will correctly complete the above paragraph.
 1) particles, one, mineral, talc 2) Minerals, few, rock, talk
 3) minerals, one, mineral, chalk 4) Particles, few, rock, chalk
32. Latha went to supermarket along with her mother. Her mother asked the shopkeeper to give 1 litre of rice. Latha corrected her mother to ask the rice in []
 1) millilitre 2) centimetre 3) kilogram 4) kilometre
33. Three substances were given
 X = Iron nail Y = Water Z = Hydrogen gas
 The correct increasing order of intermolecular distances of the above substance is []
 1) $X > Y > Z$ 2) $X < Y < Z$ 3) $Z > Y > X$ 4) $Y > X > Z$
34. Take a glass tumbler and place it in a glass bowl. Pour water gently in the tumbler so that it is completely filled. Then take a small stone, tie it with a thread. Lower the stone gently into water. Some water over flows from the glas tumbler and collects in the bowl and remove the stone from the glass tumbler . Based on above activity which conclusion is correct. []
 1) Only solids occupy space 2) only liquids occupy space
 3) Both solids and liquids occupy space 4) Both solids and liquids will not occupy space.


BIOLOGY

35. The openings present on the body of Cockroach, which are useful for respiration are called
 1) Trachea 2) Gills 3) Spiracles 4) Stomata []
36. Which of the following is necessary for living organisms []
 1) Food 2) Oxygen 3) Water 4) All the above
37. Which of the following is incorrect []
 1) Living organisms grow 2) Living things Respire
 3) Living things reproduce 4) Living things do not respond to stimuli
38. Identify the oviparous animal from the following []
 1) Man 2) Snake 3) Dog 4) Cat
39. Respiratory organ of earthworm is []
 1) Skin 2) Spiracles 3) Trachea 4) Gills
40. The Flat and Broad portion of leaf is called []
 1) Mid rib 2) Veins 3) Lamina 4) Veinlets
41. Identify the process which is shown in the diagram []
 1) Photosynthesis
 2) Respiration
 3) Transpiration
 4) Germination
42. Fibrous root system is seen in []
- 
- 


1)

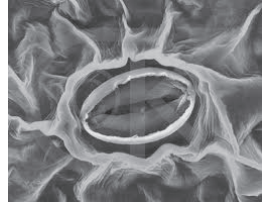


2)



3)



4)
43. In Cabbage food is stored in []
 1) Root 2) Leaf 3) Stem 4) Fruit
44. Identify the function of structure given in the picture []
 1) Take CO₂ and release O₂
 2) Absorbs water
 3) Prepares food
 4) Absorbs minerals
- 
45. Pulses, beans and Peas are rich in []
 1) Carbohydrates 2) Proteins 3) Fats 4) Water
46. Vitamins and minerals are richly found in []
 1) Milk and Bread 2) Fruits and Vegetables
 3) Fruits and Pulses 4) Egg and Cheese

