



# Zonal Education Office - Vadamaradchy

## Year End Examination - 2018

Grade : 07

Science

Time : 2.00 hours

Index No: .....

Marks : .....

### Part - I

• Select the most appropriate answer.

01. Fibrous root system is found in  
(1) Paddy      (2) Kupaimeni      (3) Neem      (4) Jak
02. A characteristic of a dicot plant  
(1) Petals are in multiples of three      (2) reticulated venation in leaves  
(3) Fibrous root system      (4) Parallel venation in leaves
03. The instrument used to measure small current is  
(1) Volt meter      (2) Ammeter      (3) Galvano meter      (4) Capacitor
04. Pollens are produced in  
(1) Sepal      (2) Petal      (3) Androecium      (4) Gynoecium
05. Respiratory roots are found in  
(1) Betel      (2) Rambai      (3) Aveenia      (4) Coconut
06. What is the respiratory organ of fish?  
(1) Skin      (2) Jaws      (3) Lungs      (4) Gills
07. Acidic substance used in the kitchen is  
(1) tamarind      (2) salt      (3) Baking soda      (4) Aginamoto
08. Which one of the given plants shows epigeal germination of seed?  
(1) Coconut      (2) Green gram      (3) paddy      (4) Areca nut
09. What is the type of cell used in calculators?  
(1) Alkali cell      (2) Button cell      (3) Dry cell      (4) Car battery
10. The indicator which shows pink colour in basic medium is,  
(1) Methyl orange      (2) pH paper      (3) Red litmus      (4) Phenolphthalein
11. Which group consists of invertebrates only  
(1) prawn, snail, sea anemone      (2) Tortoise, bivalves, cuttle fish  
(3) star fish, shark, crab      (4) bivalves, cuttle fish, chameleon
12. The form of energy found in drycell is  
(1) Light energy      (2) Sound energy      (3) Chemical energy      (4) Wind energy
13. The letter that seems without lateral inversion when it is kept in front of a plane mirror  
(1) P      (2) D      (3) E      (4) A

14. Which type of mirror is used by dentist to examine the teeth?  
 (1) concave mirror (2) convex mirror (3) plane mirror (4) parabolic mirror

15. How much is the magnification power of a compound microscope?  
 (1)  $\times 500$  (2)  $\times 1000$  (3)  $\times 2000$  (4)  $\times 50000$

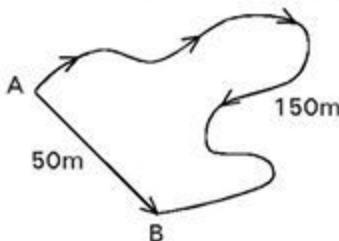
16. Which instrument produces sound by the vibration of air column?  
 (1) Miridangam (2) Trumpet (3) Tabla (4) Guitar

17. The tissue which conducts food in plants is,  
 (1) Phloem (2) Xylem (3) Epithelial tissue (4) Blood tissue

18. The atmospheric layer in which ozone layer is found  
 (1) Troposphere (2) Mesosphere (3) Stratosphere (4) Thermosphere

19. The SI unit used to measure temperature is  
 (1)  $^{\circ}\text{C}$  (2)  $^{\circ}\text{F}$  (3) K (4) All the above

20. Motion path of a moving body which moved from A to B is shown below.



distance moved by the body and its displacement are respectively.

(1) 50m, 150m (2) 150m, 150m (3) 50m, 50m (4) 150m, 50m  
 (20 x 2 = 40 marks)

### Part - II

01. Mark whether the following statements are true (✓) or false (✗)

1) Nitrogen gas is abundantly found in atmosphere. ( )  
 2) Quantities which have a magnitude and a direction are vector quantities. ( )  
 3) Average body temperature of a healthy human is  $39.6^{\circ}\text{C}$ . ( )  
 4) Metamorphic rocks form due to the exposure of temperature and pressure. ( )  
 5) Solar energy is a non renewable energy source. ( )

(5 x 2 = 10 marks)

02. Fill in the blanks using the words given.

Liver, Sodium Chloride, Air column, Radiation, Gold leaf, electroscope

- 1) Sound is produced in a Nadaswaram by vibration of .....
- 2) ..... is a gland of digestive system.
- 3) Heat reaches earth from the sun by .....
- 4) ..... is used to identify static electricity.
- 5) Chemical name of common salt is .....

(5 x 2 = 10 marks)

**03. Match****A**

Compound leaves  
Root nodules  
William Gilbert  
Dynamo  
Under ground stem

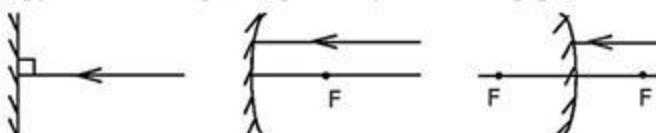
**B**

Leguminous plants  
Electroscope  
Coconut  
Onion  
alternative current

(5 x 2 = 10 marks)

04. Plane mirrors, concave mirrors, convex mirrors are some of the optical components used in laboratories.

- (1) Which mirror forms upright, virtual images with similar size of the object?
- (2) Which mirror is used as the side mirrors of vehicles?
- (3) Write down 02 characteristics of images formed by convex mirrors.
- (4) Explain why dentists used concave mirrors?
- (5) Copy down the diagrams given in your answer paper and complete the ray diagram.



(5 x 3 = 15 marks)

05. 1) Carbohydrates, proteins, Lipids, Vitamins, Minerals are nutrients found in food. Fill in the chart below.

Nutrient component	Food that contain the component	Function
1 Carbohydrate	.....	.....
2	Egg white	.....
3 Lipids	.....	.....
4	Fruits	.....
5	.....	growth of teeth and bones.

(2) Which component gives more energy to the body?

(3) Which component has to be given more to the growing children?

(4) What is the ill condition caused by protein deficiency?

(5) Write 02 functions performed by water in our body?

(5 x 3 = 15 marks)