Gaurav
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VII-D

Mid Term Exam – 2017-2018

Class – VII

Subject – SCIENCE

Roll no – 15

Time: 3 Hours　　　　**(Total = 20 Questions)**　　　　**Max. Marks: 80**

General Instructions:

a)　This paper is divided into three sections;

Section – 'A': Physics　[No. of questions = 6]　- 24 marks

Section – 'B': Chemistry　[No. of questions = 8]　- 24 marks

Section – 'C': Biology　[No. of questions = 6]　- 32 marks

b)　Read the questions carefully before attempting them.

c)　All questions are compulsory.

SECTION A– PHYSICS

Q.1　Choose the correct option:　　　　　　　　　　　　　　　**[1x3=3]**

a]　Stainless steel pans are usually provided with copper bottoms. The reason for this could be that

　　i]　copper bottom makes the pan more durable

　　ii]　such pans appear colourful

　　iii]　copper is a better conductor of heat than the stainless steel

　　iv]　copper is easier to clean than the stainless steel.

b]　Which one of the following place is unlikely to be affected by a cyclone.

　　i]　Chennai　　ii]　Mangalore　　iii]　Amritsar　　iv]　Puri

c]　The basic unit of speed is :

　　i]　km/min　　ii]　m/min　　iii]　km/h　　iv]　m/s

Q.2　Define the following:　　　　　　　　　　　　　　　　　**[1x5=5]**

a]　Heat　　　　　b]　Temperature　　　c]　Ventilation

d]　Wind Vane　　e]　Speed

Q.3　Differentiate between the following: [Any two points]　　**[2x2=4]**

a]　Conductors and Insulators

b]　Cyclones and Tornadoes

Q.4 Give reasons: [2x2=4]

   a]   The handle of a pressure cooker is covered with a thick plastic.

   b]   Holes are made in hanging banners and hoardings.

Q.5 Explain land breeze with the help of a labelled diagram.   [3]

Q.6 a]   A simple pendulum takes 80 seconds to complete 20 oscillations. What is
        the time period of the pendulum?   [2]

   b]   Given below is the data about the distance covered by a vehicle and the time
        taken by it to cover the distance. Plot the distance time graph and use it to
        understand the motion of the car.   [3]

Time	Distance [Km]	Vehicle 'A' Time [h]
10:00 a.m.	0	0
11:00 a.m.	10	1
12:00 a.m.	20	2
1:00 p.m.	30	3
2:00 p.m.	40	4
3:00 p.m.	50	5

SECTION B - CHEMISTRY

Q.7 Choose the correct option: [1x3=3]

   a]   The acid produced naturally in our stomach is _____ .

        i]   Acetic acid   ii]   citric acid

        iii]   hydrochloric acid   iv]   sulphuric acid

   b]   The gas which turns lime water milky is _____ .

        i]   Sulphur dioxide   ii]   nitrogen dioxide

        iii]   hydrogen chloride   iv]   carbon dioxide

   c]   The rearing of silkworms for obtaining silk is called _____ .

        i]   Agriculture   ii]   sericulture

        iii]   silviculture   iv]   pisciculture

Q.8 **Define the following:** [1x3=3]

a] Shearing b] Galvanisation c] Organic Acids

Q.9 **Differentiate between the following:** [1x2=2]

a] Scouring and sorting b] Rusting and Crystallization

Q.10 **Give reasons. Why?** [2x3=6]

a] It is important for the larvae to hatch when mulberry leaves bear fresh crops of leaves.

b] Acids are not stored in metallic containers.

c] Iron pipes used for carrying water are coated with zinc.

Q.11 **What happens when magnesium oxide is dissolved in water? Explain with chemical equation.** [2]

Q.12 **What is Sorter's disease and how is it caused?** [2]

Q.13 **What happens when iron nail is kept immersed in copper sulphate solution? Name this reaction. Write the chemical equation involved.** [3]

Q.14 a] Complete the following equation: [1]

Hydrochloric Acid + _____ = Sodium Chloride + Water

b] Identify the type of reaction. [1]

c] Why is calamine solution applied on the skin where an ant bites? [1]

SECTION C – BIOLOGY

Q.15 **Choose the correct option:** [1x4=4]

a] The plant which traps and feeds on insects is:

i] cuscuta ii] china rose iii] pitcher plant iv] rose

b] The enzymes present in the saliva convert

i] fats into fatty acids and glycerol.

ii] starch into sugars.

iii] proteins into amino acids.

iv] complex sugars into simple sugars.

c] Water from the undigested food is absorbed mainly in the [2x3=3]

    i] stomach   ii] food pipe

    iii] small intestine   iv] large intestine

d] A carnivore with stripes on its body moves very fast while catching its prey. It is likely to be found in [2x3=6]

    i] polar regions   ii] deserts

    iii] oceans   iv] tropical rainforests

Q.16 Define the following: [1x2=2]

    a] Autotroph   b] Meteorology

Q.17 Differentiate between the following: [Any two points] [2x3=6]

    a] Saprotrophic Nutrition and Insectivorous Nutrition [2]

    b] Tongue and Saliva [2]

    c] Weather and Climate

Q.18 Give reasons: [2x3=6]

    a] Rahul picked up a dry leaf and tried performing the starch test. He observed that the colour of iodine does not change to blue black. [1]

    b] A person suffering from diarrhoea is advised ORS. [1]

    d] Animals migrate from one place to another.

Q.19 Answer the following questions: [3x3=9]

    a] How do leaves of different colour [red and brown] prepare their own food?

    b] Explain the role of villi in the process of digestion.

    c] State the function of the instruments given below:

        i] Thermometer   ii] Rain Gauge   iii] Magnetic Compass

Q.20 a] Write the functions of different types of teeth. [2]

    b] Draw a well labelled diagram of arrangement of teeth and different types of teeth. [2]