Samudra Devi Balika Vidyalaya

Grade - 11

Science - Ist Term Test

Time: 2 hrs.

I Part

- * Answer all questions
- ² Under line the correct answer.
- 11. The type of waves generate in a pond when throwing a stone to the pond is?
 - (a) Transverse wave
 - (b) Longitudinal wave
 - (c) No wave generation
 - (d) Longitudinal wave generate ad finally turns in to a transverse wave
- 02. What is the incorrect statement ragarding sound?
 - (a) Sound is a energy
 - (b) Sound travels through water
 - (c) Sound travels through vaccum
 - (d) Sound travels faster in Iron than he air
- 03. An Instrument that use high frequency yound waves is
 - (a)

- (b) Stethoscope
- (c) Spigmonano meter
- (d) X ray machine
- 04. Find the Applitude of the wave which having 1500 H₃ frequency and 5000 Hg velocity.
 - (a) 2 m

(b) 3 m

(c) 6 m

- (d) 4 m
- 05. What is the relationship between resistance and resistivity
 - (a) $R = S \frac{A}{I}$

(ii) $R = S \frac{l}{R}$

(iii) $P = R \frac{1}{A}$

- (iv) $P = R \frac{A}{I}$
- 06. Write the correct order of equipments in the house hold electric circuit
 - (i) Service Fuse Electricity meter trip sw ch fuse box
 - (ii) Service Fuse fuse box trip switch Electricity meter
 - (iii) Service Fuse Maintain Switch Electricity meter trip switch fuse box
 - (iv) Service Fuse Electricity meter main switch trip switch fuse box

- 07. The mass of the water beaker is 540 g. When connecting a metal cylinder to the spring balance it shows 200 3 in air. When it immerse in water it shown 160 g. What is the value shows by the balance at that time?
 - (i) 500 g

(ii) 540 g

(iii) 580 g

- (iv) 00 g
- 08. An object is fall's down from 25 m height building. After 2 seconds Find the height of the object from the earth ($9 = 10 \text{ms}^{-2}$)
 - (i) 5 m

(ii) 20 m

(iii) 15 m

- (iv) 10 m
- 09. Find the velocity of the object at the above situation?
 - (i) 200 ms⁻¹

(ii) 20 ms⁻¹

(iii) 15 ms⁻¹

- (iv) 10 ms⁻¹
- 10. When a 220 v , 100 w bulb id glowing find the current flow through the bulb?
 - (i) 220 × 100

(ii) $\frac{220}{100}$

(iii) $\frac{100}{220}$

(iv) $\frac{(220)2}{100}$

(iv)

- 11. Find the unbalance system
 - (i) (20 N
- (ii) 20N 20N



- 10 N
- 12. A fuse must be connected to the
 - (i) Live wire

(ii) Natural Wire

(iii) Earth Wire

- (iv) Line or hentral wire
- 13. Mass of a woman is 50 kg. area of ε shoe is 0.604m². What is the pressure entered on the floor while she is standing using her both feet.
 - (i) $\frac{50}{0.004 \times 2}$ Nm⁻²

(ii) $\frac{500}{0.004 \times 2}$ Nm⁻²

$$\frac{500}{0.004}$$
 Nm⁻²

It is two sides are palance in the above picture find the value of x?

(i) 10 N

(ii) 15 N

(iii) 5 N

- (iv) 20 N
- 18. A Bending a se cil in a glass filled with water
 - B formation of mirage
 - C formation o' rainbow
 - D the bottom of the well lifted

Select the phenomena relevant to the total internal reflection

(i) A, B

(ii) A, C

(iii) A, D

- (iv) B, C
- 19. Select the scalar quantity?
 - (i) Distance

(ii) Weight

(iii) Force

- (iv) Velocity
- 20. What is the SI Unit of acceleration?
 - (i) ms⁻¹

(ii) ms⁻²

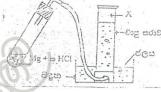
ms 2 (iii) (iv) ms Grade - 11 Science - Ist Term Test Time: 2 hrs. II Paper Answer all questions Biology 01. The above diagram shows the parts of the heart Name A, B, C, D, E What is the difference between the blood contain in A and C (b) Walls of C is thicken then the walls of A. Explain this (c) What is the vessel that carry oxygena ::d blood away from the heart? (d) 02. Name the process of entering Oxygen to the tiesues which are transport by hemoglobin ? (a) (b) (c) (d) 03. Write the changes occur in blood in following situations · (i) Anemia (ii) Diabetics (iii) Infection Complete the following reactions relevant to the digestive system (a) Starch Amylase (b) Pepsin Polypeptide (c) Lipids Bile (d) Polypeptide Amino acids

CHEMISTRY

02. Following elements are belongs to a period of the periodic table.

			1		T	T	
Na	Mg	Al	Si	P	S	CI	Ar

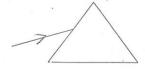
- (1) What is the period of the above elements in the periodic table?
- (2) Write 2 changes that can be seen along the period from left to right
- (3) Write e elements that are having the boiling point below $O^{0}C$?
- (4) Write the electronic configuration of Na atom?
- (5) Write the chemical equation of the compound which is formed by fusing Cl₂ and Mg
- (6) What is the type of bond can be seen in this compound?
- (II) The following diagrams shows the experiment done by student to show the reaction between Mg and Hydrochloric acid X gas evolved in this experiment.



- (a) Name the gas evolved as X?
- (b) When collecting the gas using the gas jar it is filled with water. Explain the reason?
- (c) How are you going to identify the gas X?
- (d) What is the type of Displacement that can be used to collect that gas?
- (e) Suggest two methods to increase the rate of reaction in here.

PHYSICS

- 03. When light travels from one transparent medium to another it changes it's direction?
 - (a) What is the name used for the above phenomena?
 - (b) Which characteristic of height causes for the above phenomena?
 - (c) Draw the correct path of the light ray given below

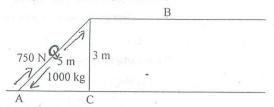


(d) How you can see a fish in a bottom of the pond. Draw the correct ray diagram.

Air

Water

- (1) Sound can be generated by vibrating objects.
 - (a) What is called frequency of a wave?
 - (b) What is the type of wave of sound waves?
 - (c) Velocity of a wave is 2000 ms⁻¹. amplitude is 10 m Find the velocity?
 - (d) Some animals only can hear the high frequency sound waves explain the reason?
- (2) People use simple machines in their day to day life



- (i) Calculate the load?
- (ii) Calculate the efficiency if the inclined plane?
- (iii) When the load carries to position B find the potential energy in it?