

ZOOLOGY 2023

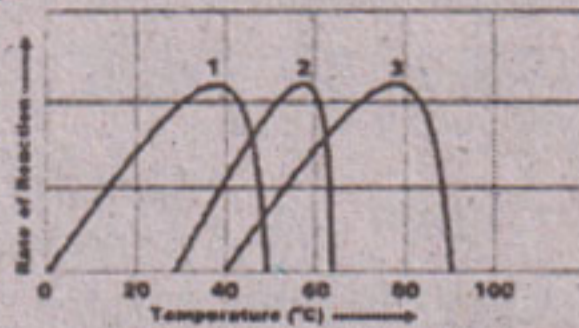
TIME: 2 Hours

(40 Marks)

SECTION 'A' (Multiple Choice Questions)(8)

1 Choose the correct answer for each from the given options:

i. This curve represents the behavior of an enzyme taken from bacteria that lives in hot springs:



I) Curve 1

II) Curve 2

III) Curve 3

* I only

* II only ✓

* III only

* I and II

ii. Gaseous exchange takes place at the surface of:

* Alveoli ✓

* Pharynx

* Larynx

* Trachea

iii. All these animals show resemblance except:

* Star Fish

* Brittle Star

* Lamprey ✓

* Sea Urchin

iv. Lungs volume is measured by a special instrument

* Catheter

* Spirometer ✓

* Sphygmomanometer

* Thermometer

v. The transfer of antibodies from mother to the foetus is:

* Natural Active Immunity

* Natural Passive Immunity ✓

* Artificial Active Immunity

* Artificial Passive Immunity

vi. Incomplete double circuit circulation of blood is found in

* Amphibians

* Reptilians

* Aves

* Amphibians and Reptilians both ✓

vii. The human enzymes are highly active at this temperature

* 37°F

* 37°C ✓

* 50°C

* 50°F

viii. Antibodies are produced by:

* B_M - Cells

* T - Cells

* Plasma Cells ✓

* Macrophages

ix This is not the correct matching pair:

* Pinacocres - Collar Cells ✓

* Spicules - Ponfera

* Amoebocytes - Gametes Formation

* Parazoa - Porifera

x. Deoxygenated blood is carried by:

* Coronary Artery

* Pulmonary Artery ✓

* Pulmonary Vein

* Renal Artery

xi. Most abundant carbohydrate found in nature is:

* Glucose

* Maltose

* Cellulose ✓

* Glycogen

xii. This character does not match the phylum Cnidaria:

* Coelentron

* Diploblastic

* Cnidocytes

* Bilateral Symmetry ✓

xiii. Hepatic portal system of human is formed between:

* Oral Cavity and Spleen

* Small Intestine and Liver ✓

* Heart and Kidney

* Kidney and Stomach

xiv. It is an example of polynucleotide:

* DNA ✓

* ATP

* ADP

* NAD

xv. The protein part of enzyme is called.

* Prosthetic Group

* Cofactor

* Holoenzyme

* Apoenzyme ✓

xvi) All Amino acids have same formula except:

* Alpha Carbon

* Hydroxyl Group

* Radical Group ✓

* Amino Group