

Zoology core - Sem II

core course - 3

Topic

① Structure and function of Plasma-membrane.

- (a) Isolation and methods of study.
 - (b) Lipid as phospholipids, glycolipids and cholesterol.
 - (c) glycolipids on plasma-membrane surface.
 - (d) Transmembrane Proteins
 - (e) Protein complexes in membrane
 - (f) Specific proteins for specific membrane
 - (g) Cell coat or glycocalyx
 - (h) CAMS and integrins as membrane Protein.
- Function of Plasma-membrane

- (a) Cell Recognition
- (b) membrane transport
- (c) Vesicular transport

Topic - Endoplasmic reticulum

Structure - (a) Rough E.R
(b) Smooth E.R

Function -

- (1) Mechanical support
- (2) Exchange and translocations
- (3) Protein Synthesis
- (4) Synthesis of lipoprotein and glycogen
- (5) Detoxification of drug
- (6) Release, uptake and storage of Ca^{2+}

Zoology core Sem-2

Core-course 4

TOPIC: - (1) Classification of Reptiles.

(a) General characters.

(b) Four subclass. Anapsida

Parapsida

Diapsida

parapsida.

Anapside - order - 1 Colylosauria

2. chelonia

Parapsida - order 1 Rhynchocephalia

order 2. Squamata

sub.order - 1. lacertilia

2 ophidia

super order - Archosauria

order - crocodilia

sub.class 4. Synapsida

Topic - (2) (a) Affinities of Prototheria

(b) Affinities of Metatheria