

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch-ZOOLOGY

ANIMAL PHYLOGENY AND PALAEOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10x1 = 10)

- 1 What is the longest part of Earth's history, Trace fossils appeared
(i) Mesozoic Era (ii) Paleozoic Era
(iii) Precambrian Time (iv) Cenozoic Era
- 2 Sometime 'leeches' are called
(i) Parasites (ii) Carnivorous
(iii) Hectocotylus (iv) Herbivorous
- 3 Digestion in sponge is
(i) Intracellular (ii) Intercellular
(iii) Both (i) & (ii) (iv) Extracellular
- 4 In sea star stomach has
(i) 2 compartments (ii) 3 compartments
(iii) single bag (iv) 5 regions
- 5 'Reptiles' respire through
(i) Skin (ii) Gills
(iii) Lungs (iv) Epidermis
- 6 Gills in fishes supported by the
(i) Trachea (ii) Gill arches
(iii) Gill filaments (iv) Pharyngeal slits
- 7 In skull of reptiles?
(i) One (ii) Two
(iii) Three (iv) Four
- 8 Metatheria first proposed by
(i) Thomas Henry Huxley (ii) Wilhelm
(iii) Janed Diamond (iv) Warburg
- 9 Natural selection will provide human with
(i) Larger brains (ii) Webbed hands
(iii) Improved vision (iv) None of the above
- 10 Genetic drift is an account of
(i) Variation (ii) Mutation
(iii) Increase in population (iv) Decrease in population

SECTION - B (35 Marks!)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x7 = 35)

- 11 a Analyse the process of fossil formation.

Analyze the terrestrialisation in Amphibia.

OR

Evaluate the dominance of Mesozoic reptiles.

Comment on Metatheria.

OR

Write an illustrated account on Rhynchocephalians.

Explain the evolution of Man.

OR

Discuss the Phylogeny of Bipedalism.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

Enumerate the phylogeny of Coelenterata.

Write an elaborate account on origin and phylogeny of Anthropoda,

Analyse the origin of Reptiles.

Elucidate the origin of bird flight.

Analyze the future of human evolution.

Z-Z-Z

END