

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Fourth Semester)

Branch – ZOOLOGY

EVOLUTION

Time: Three Hours

Maximum: 75 Marks

SECTION-A

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10 Marks)

- 1 What is the another name given to abiogenesis?
(i) biogenesis (ii) Spontaneous generation
(iii)coacervation (iv) organic evolution
- 2 Who said that Evolution is Decent with modification?
(i)Herbert Spencer (ii) Darwin
(iii) Huxley (iv) lamark
- 3 Which era was known as Golden age of Reptiles?
(i) mesozoic era (ii) coenozoic era
(iii) azoic era (iv) cryptozoic era
- 4 Name the modern theory of natural selection.
(i) neo-darwinism (ii) speciation
(iii) coacervation (iv) neo-Lamarckism
- 5 Which is the main raw material for evolution.
(i) genetic drift (ii) neo lamarkism
(iii) isolation (iv) variation
- 6 Instantaneous speciation is also called as -----
(i) sudden speciation (ii) phyletic speciation
(iii) allogeous (iv) autogenous
- 7 Darwin finches shows -----.
(i) adaptive radiation (ii) atavism
(iii)convergent evolution (iv) connecting link
- 8 Marsupials are very good example for -----.
(i) Convergent evolution (ii) parallel evolution
(iii) atavism (iv) adative radiation
- 9 Choose the written documents of evolution.
(i) protocell (ii) moths
(iii) finches (iv) fossils
- 10 Name the first true man.
(i) ape man (ii) Australo pithicans
(iii) Homo erectus (iv) Rama pithicans

Cont...

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

- 11 a Explain in detail about the biogenesis.
(OR)
b Summarise the physiological evidences for evolution.
- 12 a Narrate the industrial melanism.
(OR)
b Explain the Lamarckian principles.
- 13 a Compare allopatric speciation and sympatric speciation.
(OR)
b Comment on ecological isolation.
- 14 a Outline the Convergent evolution.
(OR)
b Bring out the parallel evolution with suitable examples.
- 15 a Discuss the various phases of cultural evolution of Man.
(OR)
b Compare Eohippus and Equus in Horse evolution.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Summarise the molecular evolution of life.
- 17 Enumerate the principles of Natural selection theory.
- 18 Discuss the various sources of Variations.
- 19 Discuss the causes and significance of adaptive radiation.
- 20 Explain in detail about the milestones of cultural evolution of Man.

Z-Z-Z

END