

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 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. When the life originated from non living things, it is called ----.  
(i) biogenesis (ii) abiogenesis  
(iii) coacervation (iv) organic evolution
2. Who coined the term Evolution?  
(i) Herbert Spencer (ii) Darwin  
(iii) Huxley (iv) lamark
3. Which is known as Golden age of Fish? .  
(i) Devonian (ii) coenozoic  
(iii) azoic (iv) cryptozoic
4. Mention the word for the formation of new species.  
(i) neogenesis (ii) speciation  
(iii) coacervation (iv) chloroplast
5. Name the raw materials for evolution.  
(i) darwinism (ii) neo lamarkism  
(iii) isolation (iv) variation
6. When one species is transformed into another species, it is called ----  
(i) true speciation (ii) phyletic speciation  
(iii) allopatric (iv) sympatric
7. Which one of the following shows adaptive radiation?  
(i) Darwin finches (ii) pepperd moth  
(iii) E.coli (iv) stickle back fish
8. Which one of the following is responsible for macroevolution and  
megaevolution.?  
(i) Convergent evolution (ii) parallel evolution  
(iii) atavism (iv) adaptive radiation
9. Name the written documents of evolution.  
(i) fossils (ii) moths  
(iii) finches (iv) precell
10. Who was the first True man?  
(i) Ramapithicans (ii) tryopithicans  
(iii) Homo erectus (iv) Protopithicans

Cont...

**SECTION - B**

Answer **ALL** Questions

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

11. a. Explain in detail about the analogous structure.  
OR  
b. Summarise the embryological evidences for evolution.
12. a. Narrate the principles of Lamarkism.  
OR  
b. Explain the Coenozoic era in geological timescale.
13. a. Classify the types of variations.  
OR  
b. Explain the geographical isolation.
14. a. Outline the Convergent evolution.  
OR  
b. Bring out the causes for adaptive radiation.
15. a. Outline the Evolutionary trends in Horse evolution.  
OR  
b. Narrate the milestone of cultural evolution of Man.

**SECTION - C**

Answer any **THREE** Questions

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

16. Summarise the Biochemical evolution of life.
17. Enumerate the principles of Darwinism.
18. Discuss in detail about the Reproductive isolation.
19. Discuss the parallel evolution with suitable examples.
20. Discuss the Phases of cultural evolution of Man.

Z-Z-Z

END