

Exam Date &amp; Time: 30-Sep-2020 (10:00 AM - 01:45 PM)



## PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins + Grace Time : 15mins

**BSc DEGREE EXAMINATION MAY 2020**  
(Sixth Semester)

**Branch - ZOOLOGY**  
**EVOLUTION [14ZOU25]**

Marks: 75

Duration: 225 mins.

### SECTION A

Answer all the questions.

- 1) Biogenesis. (2)
- 2) Von Baer's Law. (2)
- 3) Use and disuse theory. (2)
- 4) Variation. (2)
- 5) Adaptive radiation. (2)
- 6) Darwin's finches. (2)
- 7) Fossils. (2)
- 8) Species. (2)
- 9) Mesozoic era. (2)
- 10) Neanderthal man. (2)

### SECTION B

Answer all the questions.

- 11) How do you support Urey and Miller's experiment as evidence for molecular evolution of life? (5)
  - a) [OR]
  - b) Compare any two anatomical and structural of the organism as evidence for evolution. (5)
- 12) Describe the mechanism of fossil formation. (5)

- a)  
[OR] Explain the principles of Lamarckism. (5)  
b)
- 13) Analyse the Darwin finches and support as source of adaptive radiation. (5)
- a)  
[OR] Explain about the convergent evolution with suitable examples. (5)  
b)
- 14) Comment on sympatric speciation. (5)
- a)  
[OR] Analyse any two factors responsible for variations. (5)  
b)
- 15) Write the patterns of distribution of animals on the earth. (5)
- a)  
[OR] Enlist the salient features of Apes. (5)  
b)

### SECTION C

Answer 3 out of 5 questions.

- 16) Write an essay on biochemical origin of life. (10)
- 17) Explain about Darwin's natural selection theory. (10)
- 18) "Isolating mechanism prevents interbreeding between populations" – Justify. (10)
- 19) Write notes on  
(a) parallel evolution  
(b) causes and significance of adaptive radiation. (10)
- 20) Describe in detail about the cultural evolution of man. (10)

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