(6 Pages) Reg. No.:	2. The mutation theory was proposed by
Code No.: 20254 E Sub. Code: SMZO 61/	(a) De vries (b) Mendel (c) Pasteur (d) Dobzansky
AMZO 61	
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023	3. A new, modified theory of Lamarckism is called
Sixth Semester	(a) neo Darwinism (b) Darvinism
Zoology — Core	(c) neo lamarkism (d) lamarkism
EVOLUTION	4. The neo Darwinism was proposed by ———
(For those who joined in July 2017 onwards)	(a) August Weismann
	(b) Wallace
	(c) Fisher
PART A — $(10 \times 1 = 10 \text{ marks})$	(d) Kettlewell
Answer ALL the questions.	5. The raw material for the evolution is ————
Choose the correct answer:	(a) Variation (b) Adaptation
1. The ——— is called as age of fish.	(c) Colouration (d) Isolation
(a) Pennisylvenian period	6. When the species becomes fragmented by
(b) Devonian period	polyploidy ———— speciation occurs.
(c) Permian period	(a) sympatric (b) allopatric
(d) All the above	(c) true (d) phyletic
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Counter shading mechanism is a ——————————————————————————————————	PART B — (5 × 5 = 25 marks)  Answer ALL questions choosing either (a) or (b).  Each answer should not exceed 250 words.
(b) alluring colouration	
(c) warning colouration	11. (a) Define analogous organs with suitable examples.
(d) none	Or
B. The organism which exhibits mimicry is called	(b) Enumerate on mesozoic era.
	12. (a) Explain the natural selection theory.
(a) model (b) mimic	Or
(c) adaptation (d) selection	(b) Discuss the criticism of Lamarckism.
9. The first true man was ———	13. (a) Write down the geographical isolation. Or
(a) Homo sepians	(b) Explain the Hardy Weinberg law.
(b) Homo erectus	14. (a) Organize the warning mimicry.
(c) Neanderthal man	Or
(d) Cro magnon man	(b) Illustrate the arboreal adaptation.
10. The palaearctic, nearctic, ethiopian and oriental regions are together called ———	15. (a) Persuade the salient features of neotropical region.
(a) metagea (b) neogea	Or
(c) notogea (d) holarctic	(b) Orderly arrange the causes for human evolution.
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[P.T.O.]

## PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions choosing either (a) or (b). Each answer should not exceed 600 words.

16. (a) Enumerate the paleontological evidences.

Or

- (b) Describe the homologous organs with examples.
- 17. (a) Discuss the Lamarckian principles.

Or

- (b) Summarize the natural selection and types.
- 18. (a) Explain the sources of variations.

Or

- (b) Illustrate the seasonal isolation and ecological isolations.
- 19. (a) Explain the different types of mimicry.

Or

(b) Explain the adaptations found in the desert animal.

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20. (a) Summarize the characteristics of Australian region.

Or

(b) Discuss the evolution of man as seen in fossil record.

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