QP CODE: D3BZL2401	(Pages: 2)	Reg. No	:	....
		Name	:	....

THIRD SEMESTER FYUGP EXAMINATION, NOVEMBER 2025

Discipline Specific Core (DSC) Courses - Major

ZOO3CJ201 : Systematics, Evolution & Zoogeography

(Credits: 4)

Time: 2 Hours	**Maximum Marks: 70**

Section A

Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)

1.	Analyse the limitations of morphological classification.	BL4	CO1
2.	Apply the Oparin–Haldane hypothesis to explain the origin of amino acids.	BL4	CO2, CO5
3.	Explain why fungi were not properly placed in the two-kingdom classification.	BL2	CO1
4.	Comment on the influence of vegetation in distributing animals around the world	BL2	CO4
5.	Mention two criticisms of Lamarckism.	BL1	CO3
6.	Discuss the ethical issues that may arise in zoological nomenclature.	BL2	CO1
7.	Propose how future epochs may be defined if human-driven climate change continues.	BL5	CO2
8.	What is continuity of germplasm means?	BL3	CO3
9.	The barriers of animal distribution enabled the diversification of fauna in islands. How would you support this statement?	BL2	CO4
10.	Write a short note on sibling species.	BL1	CO3

Section B

Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)

11.	Discuss the phylogenetic species concept. Why is it considered more modern than the morphological concept?	BL5	CO1
12.	Do you think Von Baer's law provides stronger evidence for evolution than Haeckel's recapitulation theory? Why or why not?	BL4	CO2
13.	Discuss the principles in Darwinism with an example for each.	BL2	CO3

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14.	Comment on the different Biogeographical Zones of India	BL1	CO4
15.	Explain the major contributions during the Darwinian and Post-Darwinian period.	BL1	CO2
16.	Compare the physical features and faunal characteristics of the Oriental and Australian realms.	BL2	CO4
17.	Animals are distributed along the globe in four different ways. Explain what could be the reason for these different distribution patterns.	BL3	CO4
18.	Compare and contrast allopatric and sympatric speciation with suitable examples.	BL2	CO3
	Section C		
	Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)		
19.	Compare and contrast morphological, chemical, cytological, and molecular approaches in taxonomy. Which do you think is the most reliable in present times? Give reasons.	BL5	CO1
20.	Write an essay on morphological and anatomical evidences of evolution.	BL2	CO2
	CO : Course Outcome		
	BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)		