

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025
(Fourth Semester)

Branch - ZOOLOGY

EVOLUTION

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Who is the father of Evolution? a) Charles Darwin b) Lamarck c) Hugo de Vries d) Oparin	K1	CO1
	2	amino acids are formed in Urey- miller experiment. a) Glycine, alanine b) Glycine , leucine c) Alanine, methionine d) lysine, valine	K2	
2	3	Name the scientist who proposed the Theory of Mutation. a) Lamarck b) Haldane c) Charles Darwin d) Hugo de Vries	K1	CO2
	4	Which is the fossil that is considered as a connection link between birds and reptiles? a) Archaeopteryx b) Limulus c) Peripatus d) Duck- billed platypus	K2	
3	5	Select any one post zygotic isolating mechanism from the following. a) temporal b) behavioral c) mechanical d) hybrid inviability	K1	CO3
	6	What is the process of formation of new species? a) speciation b) variation c) isolating mechanism d) kin selection	K2	
4	7	Convergent evolution leads to a) Anology b) Paralogy c) Homology d) Orthology	K1	CO4
	8	Which type of mimicry is demonstrated by the warning colouration of bees and wasps? a) Aggressive b) Batesian c) Mullerian d) automimicry	K2	
5	9	Choose the earliest known ancestor of horse. a) mesohippus b) merychippus c) pliohippus d) eohippus	K1	CO5
	10	What is the earliest species of genus Homo? a) Homo erectus b) Homo habilis c) Homo neanderthalensis d) Homo sapiens	K2	

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SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Compare abiogenesis and biogenesis of evolution.	K2	CO1
		(OR)		
	11.b.	Explain Urey-Miller experiment in evolution.		
2	12.a.	Examine the geological time scale.	K4	CO2
		(OR)		
	12.b.	Analyze the theory of Mutation.		
3	13.a.	Analyze the types of variation in evolution.	K4	CO3
		(OR)		
	13.b.	Examine the geographic isolating mechanism.		
4	14.a.	Distinguish the parallel evolution.	K4	CO4
		(OR)		
	14.b.	Compare the types of mimicry in evolution.		
5	15.a.	Explain the origin of evolution of man.	K5	CO5
		(OR)		
	15.b.	Explicate the cultural and future evolution.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain in detail about the evidence of evolution.	K5	CO1
2	17	Compare Lamarckism and Neo Lamarckism theories of evolution.	K5	CO2
3	18	Elaborate the types of speciation.	K6	CO3
4	19	Analyze adaptive radiation with suitable examples.	K4	CO4
5	20	Discuss the evolution of the Horse.	K6	CO5

Z-Z-Z END