



Reg. No.:

Name:

W6929

University of Kerala

Third Semester FYUGP Degree Examination, November 2025

Discipline Specific Core Course

ZOOLOGY

UK3DSCZOO204 - Body Functions and Regulation

Academic Level: 200-299

2024 Admission

Time: 2 Hours(120 Mins)

Max. Marks: 56

Part A.6 Marks:Time 5 Minutes.(Cognitive Level :Remember(RE)/Understand(UN)) Objective Type.1 mark each, Answer all questions

Qn No.	Question	CL	CO
1	The part of the hypothalamus that functions as the satiety centre is Options : A)Lateral hypothalamus B)Ventromedial hypothalamus C)Arcuate nucleus D)Orbitofrontal cortex	RE	1
2	The lipostatic theory of hunger regulation is based on: Options : A)Gastric motility B)Secretion of hormones C)Blood glucose level D)Fat storage level	RE	1
3	Identify the primary trigger for renin release. Options : A)Increased blood volume B)Increased sodium concentration C)Decreased arterial blood pressure D)Decreased blood glucose levels	UN	2
4	Which hormone is known as satiety hormone? Options : A)Ghrelin B)Leptin C)Dopamine D)Serotonin	UN	1
5	Jet lag is due to: Options :	UN	3

Qn No.	Question	CL	CO
13	<p>A) Identify and explain different anticipatory signals of thirst.</p> <p>OR</p> <p>B) Describe the symptom and causes of any two disorders of water balance</p>	AP	2, 4
14	<p>A) Compare the lipostatic and glucostatic theories related to hunger and eating.</p> <p>OR</p> <p>B) a) Identify the role of the arcuate nucleus in feeding regulation.</p>	AN	3, 1
15	<p>A) A. Differentiate between declarative (explicit) and non-declarative (implicit) memory with examples.</p> <p>OR</p> <p>B) Examine the role of long term potentiation.</p>	AN	4, 2

Part D.24 Marks.Time: 60 Minutes.(Cognitive Level :Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer 6 Marks each.Answer all 4 questions choosing among options * within each question

Qn No.	Question	CL	CO
16	<p>A) Explain how the feeding centres in the hypothalamus regulate hunger and satiety.</p> <p>OR</p> <p>B) Describe the causes and management of obesity.</p>	AN	1, 1
17	<p>A) Evaluate the neural control of sleep</p> <p>OR</p> <p>B) Evaluate the sleep disorders and their management strategies</p>	EV	4, 4

Qn No.	Question	CL	CO
18	<p>A) Describe the physiological basis of drinking and how water balance is maintained in the human body.</p> <p>OR</p> <p>B) Describe the hypothalamic control of thirst with reference to osmoreceptors and the renin-angiotensin system.</p>	EV	2, 2
19	<p>A) Describe how information is coded, stored and consolidated in human memory.</p> <p>OR</p> <p>B) Prepare an essay on early learning discoveries like Pavlov's experiment, Lashley's work and Thompson 's work.</p>	CR	4, 4