

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – PSYCHOLOGY

PHYSIOLOGICAL PSYCHOLOGY II

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. Which of the following statement is NOT true with regard to pitch perception?
(i) Pitch-evoking sounds are harmonic complex tones
(ii) The faster a waveform repeats, higher its pitch is perceived
(iii) High-pitch sounds detected by cells with taller hair bundles
(iv) Pitch is determined by neuron's temporal firing patterns
2. Identify the four basic sensations human skin can detect
(i) Itching, warmth, pain, friction (ii) Pain, friction, aching, cold
(iii) Vibration, warmth, tingling, cold (iv) Pain, pressure, cold, hot
3. Find out the neurotransmitter released at the neuromuscular junction:
(i) Acetylcholine (ii) Adrenaline
(iii) Nor-epinephrine (iv) Dopamine
4. Where does the centre of thirst and hunger located?
(i) Cerebrum (ii) Medulla
(iii) Hypothalamus (iv) Central nervous system
5. Sudden damage to the hippocampus is associated with which of the following problem?
(i) Amnesia (ii) Anterograde amnesia
(iii) Retrograde amnesia (iv) Dementia

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

6. a. Sketch human and explain its parts.
(OR)
b. Illustrate the structure of ear.
7. a. List out the ways of relieving pain.
(OR)
b. Explain the types and uses of taste receptors.
8. a. Explain the process of voluntary movement.
(OR)
b. What are the importance of muscles and explain the 5 important muscle movements?
9. a. Illustrate the mechanisms of biological clocks.
(OR)
b. Analyze the physiology behind the hunger mechanism.

Cont...

10. a. What is the role of amygdala in fear and anxiety?
(OR)
b. State the sex differences in childhood behavior.

SECTION - C (30 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 6 = 30)

11. a. Summarize the theories of colour vision.
(OR)
b. Compare and contrast the frequency and place theory.
12. a. Briefly explain about mechanical senses.
(OR)
b. Enumerate the mechanism of olfactory sense.
13. a. Describe the disorders of movements.
(OR)
b. Analyze the role of brain in body movement.
14. a. Discuss in detail about temperature regulation
(OR)
b. Narrate the functions of sleep.
15. a. Elucidate the physiology behind stress.
(OR)
b. Analyze the relationship between brain and memory.

Z-Z-Z

END