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Date:

ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27

B.Sc. ZOOLOGY - IV SEMESTER

SEMESTER EXAMINATION: APRIL 2022

(Examination conducted in July 2022)

**ZO 418 - Human Anatomy and Physiology Part II and Comparative Anatomy**

Time- 1 ½ hrs Max Marks-35

This question paper contains **02** printed pages and **four** parts.

Note: Draw diagrams wherever necessary.

Indicate the question numbers clearly.

**Part A**

**Answer all the questions**: 4 X 1 = 4

1. The gray matter consists of \_\_\_\_\_\_\_\_\_\_\_\_ fibres.
2. The aortic arches are paired \_\_\_\_\_\_\_\_\_\_\_\_ connecting the ventral and dorsal aorta in Vertebrates.
3. \_\_\_\_\_\_\_\_\_\_\_\_ is the main symptom of cretinism.
4. Otoliths found in the inner ear are chemically made of \_\_\_\_\_\_\_\_\_.

**Part B**

**Answer the following in a sentence or two**: 3 X 2 = 6

1. Write a note on choroid of the eye.
2. What is a synaptic transmission?
3. What are the functions of LH and LTH?

**Part C**

**Answer any THREE of the following**: 3 X 5 =15

1. Explain the structure of a reflex arc and a note on reflex action.
2. Explain the three zones of the adrenal cortex with reference to its structure.
3. Draw a neat labelled diagram of Organ of Corti.
4. Give a comparative account on the aortic arches of amphibians and mammals.

**PART D**

**Answer any ONE of the following**: 1 X 10 = 10

1. Explain the process of Axonal conduction.
2. Bring out the differences between the Pars distalis and Pars nervosa. Also adda note on hormones of Neurohypophysis.