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2018 PHYSIOLOGY- PAPER-II CS(O) PY-II/18

Full Marks: 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

> Answers may be given either in English or in Bengali but all answers must be in one and the same language.

Group - A

Answer any six questions

1.a) What is current of injury?

b) Discuss the ionic events that take place during the various phases of the development of a nerve action potential.

c) What is synaptosome?

Time Allowed: 3 Hours

- d) Discuss in brief about the end plate potential (EPP) and miniature end plate potential (MEPP) 2+8+2+8
- 2.a) Mention the differences between somatic and autonomic reflex arcs.
 - b) What are meant by superficial and deep reflexes?

c) What is sleep apnoea?

d) Discuss the molecular basis of sensitization.

6+4+3+7

3.a) Describe the auditory pathway with a suitable diagram.

b) What is umami taste modality?

- c) Describe the mechanism of olfactory transduction.
- 4.a) Describe with a suitable diagram the histological structure of human skin

b) What is meant by heat stress and heat strain?

- c) Distinguish btween hypothermia and hyperthermia. (3+7)+(3+3)+4
- 5.a) What are hypothalamic releasing factors?

b) Discuss the functions of PTH.

- c) State the endocrinological cause of Cretinism and 3+7+(5+5)Diabetes Insipidus.
- 6.a) Describe the changes in the overy and uterus take place during different phases of a menstrual cycle.
 - b) Describe with a suitable diagram the histological structure of an ovary of adult female individual.
 - c) What is spontaneous Ovulation?

(5+5)+7+3

- 7.a) Describe the basic concept and usefulness of lactate threshold and lactate tolerance.
 - b) What is physical fitness?
 - c) Discuss the assessment of physical fitness by modified Marvard Step Test method, (5+5) +3+7
- 8.a) What is noise?
 - b) Discuss brifly the non-auditory effects of noise on human body.
 - c) Discuss the causes of water pollution.
 - d) Discuss about the concept of safe drinking water.

2+8+5+5

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