Total Pages - 3

Full Marks: 40

UG/3rd Sem/PHYSIO(H)/T/19

Time: 2 Hours

[Turn Over]

2019

B.Sc.

3rd Semester Examination

PHYSIOLOGY (Honours)

Paper - C 7-T

The figures in the margin indicate full marks.

| Candidates are required to give their answ in their own words as far as practiable. | |
|---|------------------|
| 1. Answer any five questions: | 5×2=10 |
| (a) What do you mean by decerebrate rig | idity? 2 |
| (b) How are evoked cortical potentials sleep research? | useful in |
| (c) What is Brown - Sequard syndrome | ? 2 |
| (d) What do you mean by rheobase and cl | hromaxie? 1+1 |
| (e) What is dysmetria? | 2 |

(f) What is meant by REM sleep?

| (g) | What is Papez circuit? 2 | |
|-----|--|------------|
| (h) | Briefly state the role of leptin in long term regulation of hunger. | |
| Ans | swer any <i>four</i> questions: $4 \times 5 = 20$ | |
| (a) | Name the extra pyramidal tracts with their origin, termination and muscle movement involved, which help in control of posture. | |
| (b) | Give a brief idea about the organization and types of ganglia of autonomic nervous system. 5 | XS |
| (c) | Discuss briefly the functions of basal ganglia. 5 | |
| (d) | Elaborate the neural mechanism of sleep- wakefulness cycle. 2+3=5 | |
| (e) | Mention the distribution of α and β adrenoreceptors in human body. | |
| (f) | Describe the input and output connection of cerebellum with diagram. | 1 0 |
| Ans | swer any <i>one</i> question: $1 \times 10 = 10$ | |
| (a) | (i) Define reflex with labelled diagram. | |

(ii) What are withdrawal reflex and cross

extensor reflex?

3.

- (iii) Write down the role of cerebellum in control of voluntary movement. 3+(2+2)+3
- (b) What is referred pain? Discuss gate control theory and endogenous pain inhibition mechanism in relation to pain. Name four pain producing molecules produced in our body. 2+(3+3)+2