

B.Sc. 3rd Semester (Honours) Examination, 2020-21

PHYSIOLOGY

Course ID: 32512

Course Core: SH/PHY/302/C-6 (T)

Course Title: Circulation

Time: 1Hour 15 Minutes

Full Marks: 25

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any five questions from the following:

1×5=5

- (a) What is circle of Willis?
- (b) Where CSF is formed?
- (c) Define cardiac myopathy.
- (d) What is Einthoven's triangle?
- (e) Mention the cause of 1st heart sound.
- (f) How cardiac muscle acts as functional syncytium?
- (g) What is AV nodal delay?
- (h) What is bradycardia?

2. Answer any two questions from the following:

5×2=10

- (a) Briefly discuss the different factors responsible for hypertension. **5**
- (b) Mention the location of placement of chest leads in ECG. What is QRS complex? **4+1=5**
- (c) What is microcirculation? State the peculiarities of cutaneous circulation. **1+4=5**
- (d) What is reserve pacemaker? Mention the function of special junctional tissues. **1+4=5**

3. Answer any one question from the following:

10×1=10

- (a) State the peculiarities of cerebral circulation. Enumerate the regulation of cerebral circulation. **4+6=10**
- (b) Briefly discuss the regulation of blood pressure. Write the method of measurement of cardiac output by Fick's principle. **6+4=10**