

B.Sc. Semester-III Examination, 2022-23**PHYSIOLOGY [Honours]**

Course ID : 32512 Course Code : SH/PHY/302/C-6(T)

Course Title : Circulation

Time : 1 Hour 15 Minutes Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** of the following questions:

1×5=5

- What is angioplasty?
- Define cardiac index.
- Name any two methods for measuring cardiac output.
- What is 'Circle of Willis'?
- Write Bezold-Jarisch reflex.
- What is athletic bradycardia?
- Define echocardiography.
- What is 'black-out'?

2. Answer any **two** questions of the following:

5×2=10

- What is shock? Discuss the cardiovascular compensatory changes that occur during shock. 1+4
- What is pacemaker potential? Briefly discuss the origin and spread of cardiac impulse. 1+(1+3)
- Briefly discuss the different factors responsible for hypertension. 5
- Briefly describe the ventricular events of cardiac cycle. 5

3. Answer any **one** question of the following:

10×1=10

- Discuss the regulation of coronary blood flow. What is angina pectoris? 8+2
- What is cardiac vector? Determine the mean electrical axis of the heart. State the role of 'Bundle of His' on ECG. 1+8+1