

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

Course ID : 62512 Course Code : SH/PHY/602/C-14(T)

Course Title : Formation and Excretion of Urine

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** questions from the following:

1×5=5

- Define obligatory water reabsorption.
- What is renal stone?
- What is 'Cystometrogram'?
- Define diuretics with one example.
- Name any two abnormal constituents of urine.
- Write any one difference between cortical and juxta medullary nephron.
- Mention any two functions of mesangial cell.
- Define TmG.

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

5×2=10

- Describe in brief the innervation pattern of urinary bladder. 5
- Mention the peculiarities of renal circulation. 5
- What is GFR? Briefly discuss about the role of different factors affecting GFR. 1+4
- Describe in brief the role of kidney in regulation of acid-base balance of blood. 5

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

10×1=10

- Write about artificial kidney with its importance. State the myogenic theory of renal blood flow. 6+4
- Write in brief about 'Renin-Angiotensin' system. Briefly discuss how kidney forms hypertonic urine. 4+6
