

U.G. 6th Semester Examination-2021**PHYSIOLOGY****[HONOURS]****Course Code : PHYSIOL-H-CC-T-14****(Formation & Excretion of Urine)**

Full Marks : 40

Time : 2½ Hours

*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: 2×5=10
- Define glomerular filtration rate (GFR).
 - What is diuretics? Give one example.
 - What is aquaporin? State its physiological importance.
 - State the functions of macula densa.
 - State the importance of Juxta-glomerular apparatus.
 - Mention the abnormal constituents of urine in adult human.
 - Name the hormones produced by the Kidney.

2. Answer any **two** questions: 5×2=10
- Discuss the role of Kidney in the regulation of acid base balance in the body.
 - Describe the auto regulation of renal circulation.
 - What is the counter-current mechanism in urine formation?
 - Discuss briefly the peculiarities in renal circulation.
3. Answer any **two** questions: 10×2=20
- Discuss the mechanism of urine formation in human. 10
 - Describe the innervations of urinary bladder. Describe the process of micturition. 4+6
 - State the source of renin. Describe the role of renin angiotensin system in the regulation of blood pressure. 2+8
 - Describe non-excretory functions of Kidney. 10
