

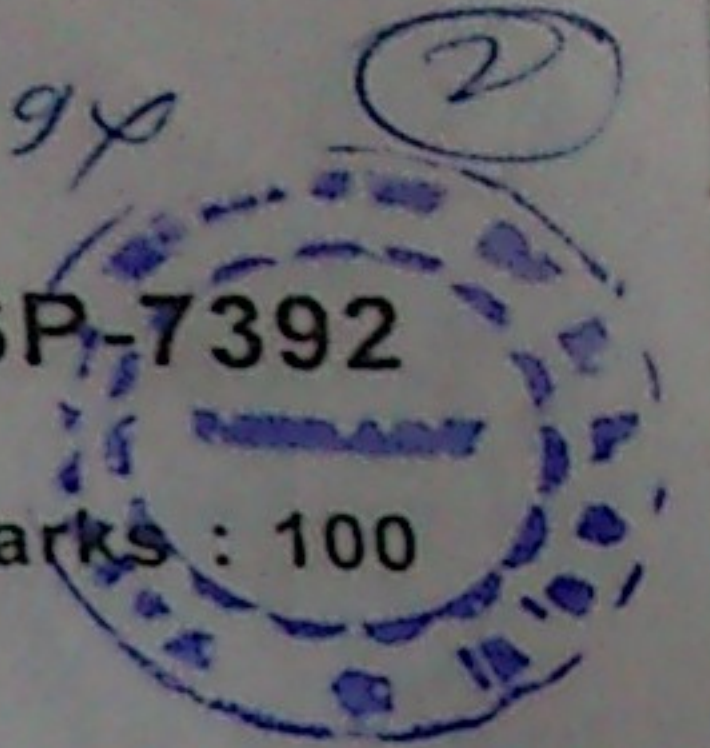
Con. 5354-09.

(REVISED COURSE)

Biom 012109 SP-7392

(3 Hours)

[ Total Marks : 100



**N.B.** (1) Question No.1 is compulsory.

- (2) Attempt any four questions out of the remaining six questions.  
 (3) Illustrate answers with neat sketches wherever necessary.

1. (a) Define Cell, Tissue, Organ and system with adequate examples. 10  
 (b) Explain in detail Cardiac Cycle, what are the significance of each heart sound. 10
2. (a) Describe the microscopic structure of a Nephron. 10  
 (b) Explain the various stages in the formation of urine. 10
3. (a) Explain the physiology of respiration. 10  
 (b) Explain the significance of Lung Volumes and Capacities. 10
4. (a) Describe the various lobes of the cerebrum. 10  
 (b) Describe the ventricles of the Brain and circulation of cerebrospinal fluid. 10
5. (a) With the help of neat diagram, explain the anatomy of stomach. 10  
 (b) Explain the functions of Liver and Pancrease. 10
6. (a) Explain the physiology of hearing. 10  
 (b) Describe the microscopic structure of a neuron. 10
7. Write short notes on any **four** of the following :— 20
  - (a) Rodes and Cones
  - (b) Endocrine Glands
  - (c) Blood Pressure
  - (d) Ovarian Cycle
  - (e) Lens of the Eye.

(a) Composition of Skin and its functions

(b) Functions of Cerebellum

(c) Inner Ear

(d) Peristalsis