

**M. Sc. (Medical Physiology) : SUMMER - 2019 9**  
**SUBJECT : PHYSIOLOGY PAPER – II**  
**(Physiological Chemistry, Applied Biochemistry, Metabolism, Diet, Nutrition)**

Day : Monday  
Date : 03/06/2019

Time 2.00 P.M. TO 5.00 P.M  
Max. Marks : 100

**S-2019-3894**

**N. B. :**

- 1) **Q. No. 1 and Q. No. 2 are COMPULSORY.**
- 2) Attempt **ANY SEVEN** questions from **Q. No. 3 to Q. No.10.**
- 3) Figures to the right indicate **FULL** marks.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

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- Q.1** Discuss regulation of Gastric Juice secretion. Add a note on gastric emptying. **(15)**
- Q.2** Discuss hormonal regulation of blood sugar level. Add a note of Diabetes Mellitus. **(15)**
- Q.3** Describe physiology of color vision. Add a note on color blindness. **(10)**
- Q.4** Discuss digestion and absorption of fats in gastrointestinal tract. **(10)**
- Q.5** Describe mechanism of concentration of urine. **(10)**
- Q.6** Discuss regulation of local blood flow with reference to regional circulations. **(10)**
- Q.7** Discuss process of coagulation. Add a note on anticoagulants. **(10)**
- Q.8** Describe biosynthesis and functions of thyroid hormones. Add a note on hypothyroidism. **(10)**
- Q.9** Describe sterling's forces of tissue fluid formation. Add a note on oedema. **(10)**
- Q.10** Discuss regulation of PO<sub>2</sub> in blood. **(10)**

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