

**M. Sc. (Medical Physiology) : SUMMER - 2019**  
**SUBJECT : PHYSIOLOGY PAPER – IV**  
**(History, Biographics, Recent Advances)**

Day : Saturday  
Date : 08/06/2019

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

**S-2019-3896**

**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.

- 
- |             |   |             |
|-------------|---|-------------|
| <b>Q.1</b>  | Explain the process of sex determination and differentiation.                             | <b>(15)</b> |
| <b>Q.2</b>  | Discuss physiology of growth.   | <b>(15)</b> |
| <b>Q.3</b>  | Correlate ovarian and uterine changes during menstrual cycle with hormonal control.       | <b>(10)</b> |
| <b>Q.4</b>  | Discuss indications, precautions and hazards of blood transfusion.                        | <b>(10)</b> |
| <b>Q.5</b>  | State contribution of sir Charles Sherrington and B. K. Anand in the field of Physiology. | <b>(10)</b> |
| <b>Q.6</b>  | Discuss classification of nerves. Add a note on nerve growth factors.                     | <b>(10)</b> |
| <b>Q.7</b>  | Describe the process of haemopoiesis.   | <b>(10)</b> |
| <b>Q.8</b>  | Discuss physiology of stress.   | <b>(10)</b> |
| <b>Q.9</b>  | Explain role of Nitric oxide in body.   | <b>(10)</b> |
| <b>Q.10</b> | Describe role of basilar membrane in hearing. Add a note on Endochochlear potential.      | <b>(10)</b> |

\* \* \* \* \*