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**B. Pharmacy (Ayurveda) 1st Semester Examination**  
**Fundamental of Physiology (O.S.)**

II

**Time : 3 Hours**

**Max. Marks : 90**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** (i) Answer in your handwriting.

(ii) Draw necessary diagrams and Attempt all questions.

1. Describe in detail mechanisms of killing of bacteria by neutrophils.

What is cellular immunity? **(10+5=15)**

2. Describe synthesis, mechanism of action and functions of thyroid hormones. **(5+2+8=15)**

3. Describe the functions of synapses. What happens during epilepsy? **(12+3=15)**

4. What is glomerular filtration rate? Discuss the role of factors affecting glomerular filtration rate. What is glomerulo tubular balance? **(3+8+4=15)**

5. Answer any five of the following:

(a) Spermatogenesis.

(b) Genesis of action potential.

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- (c) Mechanism of deglutition.
- (d) Composition and functions of bile.
- (e) Second messenger systems of cell.
- (f) Chemical regulation of Respiration. **(6×5=30)**