

# Faculty of Pharmacy

## End Semester Examination May 2025

### PY3CO05 Human Anatomy & Physiology -II

<b>Programme</b>	:	B.Pharm.	<b>Branch/Specialisation</b>	:	-
<b>Duration</b>	:	3 hours	<b>Maximum Marks</b>	:	75

**Note:** All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.

#### Section 1 (Answer all question(s))

<b>Q1.</b> Define cerebrospinal fluid.	<b>Marks CO BL</b>
	2    1    1

<b>Rubric</b>	<b>Marks</b>
Define cerebrospinal fluid. 2 marks (Only Definition)	2

<b>Q2.</b> Give the names of any two brain lobes.	2    1    1
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<b>Rubric</b>	<b>Marks</b>
each lobe carry 1 mark	2

<b>Q3.</b> Write any four functions of stomach.	2    2    1
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<b>Rubric</b>	<b>Marks</b>
each function carry 0.5 mark	2

<b>Q4.</b> Explain the roles of ATP.	2    2    1
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<b>Rubric</b>	<b>Marks</b>
any two role each carry 1 mark	2

<b>Q5.</b> What are the different parts of the kidney?	2    4    1
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<b>Rubric</b>	<b>Marks</b>
give different part of kidney -2 marks	2

<b>Q6.</b> Write down the total capacity of lungs.	2    3    1
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<b>Rubric</b>	<b>Marks</b>
explanation of the total capacity of lungs. 2 marks	2

<b>Q7.</b> Write any two functions of the thymus.	2    4    1
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<b>Rubric</b>	<b>Marks</b>
each function carry 1 mark	2

<b>Q8.</b> How many hormones are secreted by the anterior pituitary?	2    4    1
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<b>Rubric</b>	<b>Marks</b>
give any two hormones name each carry1 mark	2

**Q9.** Define chromosomes.

2 5 1

<b>Rubric</b>	<b>Marks</b>
Definition of Chromosomes carry 2 marks (Definition)	2

**Q10.** Enlist the different phases of menstruation.

2 5 1

<b>Rubric</b>	<b>Marks</b>
give any 4 phases name each carry on 0.5 marks	2

### **Section 2 (Answer any 2 question(s))**

**Q11.** What is the nervous system? Explain types and parts of neuron with well labelled diagram.

**Marks CO BL**  
10 1 2

<b>Rubric</b>	<b>Marks</b>
definition- 2 marks, parts 4 marks and types 4 marks	10

**Q12.** Explain the formation and role of ATP and Creatinine Phosphate.

10 2 2

<b>Rubric</b>	<b>Marks</b>
Formation and role of ATP -5 marks ,Formation and role of Creatinine Phosphate- 5 marks	10

**Q13.** Discuss anatomy of brain. Explain the physiology of spinal cord.

10 2 1

<b>Rubric</b>	<b>Marks</b>
(a) Explain anatomy of brain	5
(b) Explain the physiology of spinal cord	5

### **Section 3 (Answer any 2 question(s))**

**Q14.** Explain the anatomy of lungs with a well labelled diagram.

**Marks CO BL**  
5 3 1

<b>Rubric</b>	<b>Marks</b>
anatomy of lungs 3 marks , and diagram 2 marks	5

**Q15.** Write an anatomy and physiology of nephron?

5 4 1

<b>Rubric</b>	<b>Marks</b>
anatomy of nephron -2.5 marks, and physiology of nephron 2.5	5

**Q16.** Discuss about artificial respiration.

5 3 1

<b>Rubric</b>	<b>Marks</b>
Explain the Artificial respiration. 5 marks	5

### **Section 4 (Answer any 2 question(s))**

**Q17.** Write a note on the structure and function of the thyroid gland.

**Marks CO BL**  
5 4 1

<b>Rubric</b>	<b>Marks</b>
structure thyroid gland- 2.5 marks and function of the thyroid gland -2.5 marks	5

**Q18.** Write the classification of hormones.

5 4 1

<b>Rubric</b>	<b>Marks</b>
classification of hormones -5 marks	5

**Q19.** Write in detail about Hypothyroidism and Hyperthyroidism.

5 4 2

<b>Rubric</b>	<b>Marks</b>
Hypothyroidism- 2.5 marks and Explain Hyperthyroidism- 2.5 marks	5

### **Section 5 (Answer all question(s))**

**Marks CO BL**

**Q20.** Explain the anatomy of male reproductive system with a neat diagram.

5 5 2

<b>Rubric</b>	<b>Marks</b>
anatomy of male reproductive system - 2 marks neat diagram of male reproductive system - 3 marks	5

**Q21.** Describe the different trimesters of pregnancy.

5 5 2

<b>Rubric</b>	<b>Marks</b>
the different trimesters of pregnancy- 5 marks	5

**Q22.** Elaborate the process of protein synthesis.

5 5 2

<b>Rubric</b>	<b>Marks</b>
process of protein synthesis -5 marks	5

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