

**B. PHARM
SECOND SEMESTER
HUMAN ANATOMY & PHYSIOLOGY - II
BP201T**

(USE SEPARATE ANSWER SCRIPTS FOR OBJECTIVE & DESCRIPTIVE)

Duration: 3 hrs.

Full Marks: 75

Time: 20 min.

(PART-A: Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- The glucose in the body is stored in the liver as:
a. Glucose
b. Bile
c. CytP450
d. Glycogen
- The goblet cells present in various parts of the alimentary canal is responsible for the secretion of:
a. HCl
b. Pancreatic juice
c. Mucous
d. All of these
- Which of the following movements occurs inside the small intestine?
a. Peristaltic
b. Rhythmical
c. Pendulum
d. All of these
- The total length of the small intestine is?
a. 7 m
b. 5 m
c. 6 m
d. 4 m
- The pH of the gastric juice is?
a. 3-4
b. 2-4
c. 1-3
d. None of these
- The space between the two lungs is called:
a. Bronchi
b. Mediastinum
c. Bronchioles
d. None of these
- The vital capacity of healthy adult lungs is:
a. 1500 ml
b. 2000 ml
c. 3500 ml
d. None of these
- The formation of uterine lining in menstrual cycle occurs in which layer of the uterus?
a. Myometrium
b. Myocardium
c. Endometrium
d. None of these
- The hormone T4 secreted by the thyroid gland is also called as:
a. Triiodothyronine
b. Thyroxine
c. Triiodine
d. None of these
- Insulin is secreted by which cells of Islets of Langerhans:
a. α -cells
b. γ -cells
c. β -cells
d. All of these

11. In external respiration, the exchange of gases takes place between:
 - a. atmosphere and lungs
 - b. blood and tissue cells
 - c. lungs and blood
 - d. None of these
12. In internal respiration, the exchange of gases takes place between:
 - a. atmosphere and lungs
 - b. blood and tissue cells
 - c. lungs and blood
 - d. None of these
13. The pH of the urine is:
 - a. 3-4
 - b. 6-8
 - c. 5-9
 - d. None of these
14. The inflammation of nephrons is called as:
 - a. Gout
 - b. Polynephritis
 - c. Anuria
 - d. Cystitis
15. The outer surface of the kidney is called:
 - a. Nephron
 - b. Medulla
 - c. Cortex
 - d. None of these
16. The outermost layer of the alimentary canal is called as:
 - a. Adventitia
 - b. Muscle layer
 - c. Mucosal layer
 - d. Submucosal layer
17. The digestion of carbohydrates/ starch present in the food starts in the:
 - a. Mouth cavity
 - b. Stomach
 - c. Small intestine
 - d. Large intestine
18. How many pairs of salivary glands are present in humans?
 - a. 4
 - b. 5
 - c. 3
 - d. 2
19. The total length of the alimentary canal from mouth to the anus is:
 - a. 5 m
 - b. 9 m
 - c. 6 m
 - d. None of these
20. Which of the following is not an accessory organ involved in the digestive system?
 - a. Teeth
 - b. Tongue
 - c. Salivary glands
 - d. None of these

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(PART-B : Descriptive)

Time: 1 hr. 40 minutes

Mark

[*Answer any seven (7)*]

1. Describe the anatomy and physiology (functions) of the small intestine. 5
2. Discuss the various layers of the alimentary canal in general. 5
3. Write a note on menstrual cycle. 5
4. Describe the role of various hormones in reproduction. 5
5. Write a note on spermatogenesis. 5
6. Write a note on the different lung volumes and capacities. 5
7. Describe the structure of neuron elaborately. 5
8. Write down the role of RAS in kidneys. Mention any 3 kidney disorders. 5
9. Classify the nervous system. Describe about the forebrain. 5

Time : 1 Hr.

Marks : 20

[Answer any two (2)]

12.

1. Describe the process of complete digestion of carbohydrates, proteins and fats in the small intestine. 10
2. Write in details about the physiology of excretion. 10
3. Write short notes on: 10
 - a) Pituitary gland
 - b) Adrenal gland

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