F.Y. B. Pharm
Sem - II
28/10/2025
ATKT

Duration : 3 hours **Marks: 75**

Q.1 Choose the correct option and write it down **20**

1. Which structure contains cerebrospinal fluid?
A Subarachnoid space
B Dura mater
C Gray matter
D Corpus callosum

2. Which ion triggers neurotransmitter release at synapse?
A Na+
B K+
C Ca2+
D Cl-

3. Which lobe of the cerebrum is responsible for vision?
A Frontal
B Parietal
C Temporal
D Occipital

4. Which part of GIT is the main site for nutrient absorption?
A Stomach
B Small intestine
C Large intestine
D Esophagus

5. Bile salts are important for digestion of:
A Proteins
B Carbohydrates
C Fats
D Nucleic acids

6. Which organ detoxifies drugs and toxins?
A Kidney
B Pancreas
C Liver
D Gall bladder

7. The space between the two vocal folds is known as:
A Vestibule
B Rima glottidis
C Infraglottic cavity
D Pharyngeal isthmus

8. Drainage from the nasolacrimal ducts into the nasal cavity helps in:
A Filtering dust
B Moistening air
C Detecting odor
D Resonance of speech

9. The pharynx extends from the internal nares to the level of the:
A Epiglottis
B Hyoid bone
C Cricoid cartilage
D Thyroid cartilage

10. Which is the most important muscle of inhalation?
A External intercostals
B Sternocleidomastoid
C Diaphragm
D Scalene muscles

11. Which renal process removes wastes, drugs, and excess ions from the blood?
A Glomerular filtration
B Tubular secretion
C Tubular reabsorption
D Excretion

12. Growth hormone is secreted by:
A Somatotrophs
B Corticotrophs
C Thyrotrophs
D Gonadotrophs

13. Aldosterone acts mainly on:
A Stomach
B Kidney
C Liver
D Lungs

14. Hyposecretion of growth hormone (GH) in children leads to:
A Acromegaly
B Gigantism
C Dwarfism
D Cretinism

15. Normal sperm production requires a temperature that is:
A Equal to body temperature
B 1–2°C below body temperature
C 2–3°C below body temperature
D 5°C below body temperature

16. The testes are paired oval glands located in the:
A Abdominal cavity
B Scrotum
C Pelvic cavity
D Inguinal canal

17. Primary spermatocytes undergo which process first?
A Mitosis
B Meiosis I
C Meiosis II
D Spermiogenesis

18. Which enzymes are present in the acrosome?
A Amylase and lipase
B Hyaluronidase and proteases
C ATPase and kinase
D Peptidase and nuclease

19. The degeneration of most germ cells in the fetal ovary is called:
A Atresia
B Apoptosis
C Necrosis
D Regression

20. The preovulatory phase is also known as the:
A Secretory phase
B Menstrual phase
C Proliferative phase
D Ovulation phase

Q. 2 Answer ANY TWO of the following **20**

1 Explain the structure and function of spinal cord along with reflex activity.
2 Explain in detail the process of Internal & External respiration with the help of diagram.
3 Describe the structure of the thyroid gland. Add a note on the synthesis and secretion of thyroid hormones.

Q.3 Answer ANY SEVEN of the following **35**

1 Explain the structure and functions of the cerebrum.
2 Define and classify neurotransmitters with examples.
3 Write a note on disorders of GIT.
4 Explain basal metabolic rate (BMR).
5 Explain with diagram path of blood flow to kidney
6 Explain in detail about Pharynx & larynx.
7 Explain the roles of calcitonin, parathyroid hormone (PTH), and calcitriol in calcium homeostasis.
8 Explain in detail about scrotum & testes.
9 Write a complete note on Menstrual Cycle.