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TELANGANA, WARANGAL – 506 002
B.Sc. (NURSING), FIRST SEMESTER DEGREE EXAMINATIONS: JUNE, 2025
APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Time: 3 Hours

Max Marks: 75

Note: Answer part **A & B** questions in two separate answer books

Question in part “**A**” should not be answered in part “**B**” and vice versa. Otherwise they will not be valued

Part-A (Applied Anatomy) = 37 Marks

Choose the correct answer for the following MCQs

6 X 1 = 6

1. Protein found in eye lens is
 - a. Crystalline
 - b. Rhodopsin
 - c. Opsin
 - d. Collagen.
2. T- Cells mature in
 - a. Spleen
 - b. Red Bone Marrow
 - c. Thymus
 - d. Thyroid.
3. Which cell organelle is called power house of cell.
 - a. Golgi Apparatus
 - b. Endo Plasmic Reticulum
 - c. Mitochondria
 - d. Ribosome.
4. Which sphincter prevents regurgitation of food from stomach.
 - a. Cardiac
 - b. Ileocecal wall
 - c. Sphincter of Oddi
 - d. Villi.
5. Portal circulation end in
 - a. Heart
 - b. Lungs
 - c. Liver
 - d. Stomach.
6. The Pineal Gland secretes.
 - a. Vasopressin
 - b. Melatonin
 - c. Prolactin
 - d. Renin.

Write an essay on any ONE of the following:

1 X 10 = 10

7. Name the parts of Excretory System. Describe in detail about Kidney.
8. Name the Endocrine Glands in the body. Explain Pituitary Gland in detail.

Write short note on any THREE of the following:

3 X 5 = 15

9. Spinal Cord.
10. Deltoid Muscle.
11. Uterus.
12. Stomach- location and explain its parts.

Write briefly on the following:

3 X 2 = 6

13. Name four muscles of the Larynx.
14. Draw and label the parts of the Skin.
15. List the Cranial Nerves.

Part-B (Applied Physiology) = 38 Marks

Choose the correct answer for the following MCQs:

7 X 1 = 7

16. Condition in which lower esophageal Sphincter fails to relax is
a. Gastritis
b. Esophagitis
c. Achalasia cardia.
d. Peptic Ulcer.
17. Bile is composed of .
a. Water
b. Bile salts
c. Cholesterol
d. all the above
18. Which leucocytes release heparin and histamine in to the Blood.
a. Basophils
b. Monocytes
c. Neutrophils
d. Lymphocytes
19. What is the first step in Homeostasis.
a. Platelet Aggregation
b. Coagulation
c. Vaso Constriction
d. Fibrinolysis
20. Pace Maker is
a. AV Node
b. Bundle of His
c. SA Node
d. All the above
21. The P Wave of ECG represents
a. Ventricular depolarization
b. Ventricular repolarization
c. Atrial depolarization
d. Atrial Systole
22. Which hormone triggers Ovulation
a. Estrogen
b. Progesterone
c. Leutenizing Hormone
d. Follicle stimulating Hormone

Write an essay on any ONE of the following:

1 X 10 = 10

23. Define Erythropoiesis, name the sites and stages of Erythropoiesis. Explain the factors regulating it.
24. Explain the physiology of Respiration.

Write short note on any THREE of the following:

3 X 5 = 15

25. Function of Thyroid Gland.
26. Physiology of Hearing.
27. Functions of Liver.
28. Menstrual Cycle.

Write briefly on the following:

3 X 2 = 6

29. Functions of Skin.
30. Name the Antibodies.
31. What is Vital Capacity? Mention the normal value
