

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM**  
(Deemed to be University)

**B.OPTOMETRY DEGREE EXAMINATION – February 2020**  
First Year

**GENERAL ANATOMY AND OCULAR ANATOMY**

Time: Three hours

Maximum: 80 marks

I Choose the best answer

(10 x 1 = 10)

1. Which of the following is NOT a synovial joint?
  - a) Elbow
  - b) Hip
  - c) Shoulder
  - d) Pubic symphysis
2. The egg travels from the uterus to the ovary through the
  - a) Introitus
  - b) Cervix
  - c) Fallopian tube
  - d) Vagina
3. Which of the following is not a part of small intestine?
  - a) Duodenum
  - b) Ileum
  - c) Jejunum
  - d) Caecum
4. Which of the following is not a part of the urinary system?
  - a) Kidney
  - b) Gallbladder
  - c) Ureter
  - d) Urethra.
5. Which of the following is not located in the thoracic cavity?
  - a) Lungs
  - b) Heart
  - c) Thymus gland
  - d) Spleen
6. Gluteus maximus helps in \_\_\_\_\_ of thighs
  - a) Extension
  - b) Flexion
  - c) Pronation
  - d) Supination
7. Corneal epithelium is
  - a) Stratified squamous
  - b) Cuboid
  - c) Simple columnar
  - d) Stratified columnar
8. Which of the following is true regarding ciliary arteries?
  - a) There are 10-20 long posterior ciliary arteries
  - b) Anterior ciliary arteries are derived from the muscular branches.
  - c) Short posterior ciliary arteries are two in number.
  - d) The long ciliary arteries do not penetrate the sclera.
9. Which muscle is supplied by the Trochlear nerve?
  - a) Inferior rectus
  - b) Superior rectus
  - c) Superior oblique
  - d) Inferior oblique
10. Which of these is NOT a structure in the angle of the anterior chamber?
  - a) Scleral spur
  - b) Trabecular meshwork
  - c) Schwalbe's line
  - d) Sampolesi's line

(p.t.o)

II State whether the following statements are **TRUE** or **FALSE** (10 x 1 = 10)

1. The male sex hormone is called testosterone.
2. Bile is secreted from the gall bladder.
3. Urinary bladder plays an important role in urine formation.
4. The right and left lungs differ anatomically.
5. The lymph node comprises of cortex and medulla.
6. Cornea is a vascular.
7. Cribriform plate of ethmoid forms the lateral wall of the orbit.
8. The mucin layer of the tear film is secreted by the lacrimal glands.
9. The lens is situated in the patellar fossa.
10. Muller cells are neuroglial cells of the retina

III Fill in the blanks: (10 x 1 = 10)

1. \_\_\_\_ is a hollow muscular pelvic organ where the fertilized ovum is lodged where it grows into a baby.
2. \_\_\_\_\_ are the functional units of the kidneys.
3. \_\_\_\_\_ is the serous membrane covering the lungs.
4. \_\_\_\_\_ is the valve between left atrium and left ventricle.
5. The deltoid muscle is innervated by \_\_\_\_\_ nerve.
6. The optic nerve enters the orbit through the \_\_\_\_\_ foramen.
7. \_\_\_\_\_ are glands present in the tarsal plate and secrete sebum.
8. \_\_\_\_\_ is a translucent membrane which lines the posterior surface of the eyelids and the anterior surface of the eyeball.
9. The photoreceptors responsible for night vision are \_\_\_\_\_.
10. The outermost layer of the retina is \_\_\_\_\_.

IV Write any **FIVE** answers of the following: (5 x 6 = 30)

1. Anatomy of Visual pathway with a diagram.
2. Diaphragm.
3. Spinal cord.
4. Structure of spermatozoa.
5. Draw a labeled diagram of the urinary system.
6. Anatomy of eye lids.
7. Name the layers of retina with a diagram.

V Write any **TWO** essays of the following: (2 x 10 = 20)

1. Draw a labeled diagram of the digestive system. Write an essay on the anatomy of liver.
2. Name the Endocrine glands. Write an essay on the anatomy of the thyroid gland.
3. Extraocular muscles – origin, insertion, nerve supply and actions. Draw diagrams wherever necessary.

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