

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

B.OPTOMETRY DEGREE EXAMINATION – August 2019
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 a long bone?
 - a) Ribs
 - b) Sternum
 - c) Scapula
 - d) Femur
2. Diaphragm is supplied by
 - a) Median Nerve
 - b) Common peroneal nerve
 - c) Hypoglossal Nerve
 - d) Phrenic Nerve
3. Which of the following is the pigmented portion of the eye?
 - a) Cornea
 - b) Iris
 - c) Pupil
 - d) Lens
4. Thyroid Stimulating Hormone is secreted by
 - a) Pituitary gland
 - b) Hypothalamus
 - c) Thyroid
 - d) Parathyroid glands
5. Which of the following is absent in an artery?
 - a) Endothelium
 - b) Smooth muscle
 - c) Connective tissue
 - d) Valves
6. Which of the following is the airway between the larynx and the bronchi?
 - a) Trachea
 - b) Pharynx
 - c) Bronchiole
 - d) Alveolar duct
7. Which of these is NOT true of Superior oblique muscle
 - a) It is the longest extraocular muscle
 - b) It is supplied by the trochlear nerve
 - c) It adducts the eye
 - d) Trochlea is the functional origin of the muscle
8. Which of these is NOT supplied by the oculomotor nerve
 - a) Inferior oblique
 - b) Medial rectus
 - c) Dilator papillae
 - d) Levator palpebrae superioris
9. Pars plana is a part of the
 - a) Iris
 - b) Ciliary body
 - c) Choroid
 - d) Retina
10. Cone density is greatest in which part of the retina?
 - a) Macula
 - b) Mid periphery
 - c) Periphery
 - d) Peripapillary region

(p.t.o)

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

1. FSH and LH are produced by the ovary.
2. Obstruction central retinal artery causes glaucoma.
3. Gastric secretion is alkaline.
4. Optic nerve is the longest cranial nerve.
5. Food passes through the larynx.
6. Corneal endothelium does not proliferate.
7. Sperms are produced in the seminiferous tubules of the testis.
8. Peritoneum covers the lungs and comprises visceral and parietal peritoneum.
9. Ophthalmic artery is a branch of the internal carotid artery.
10. Nasolacrimal duct opens into the inferior meatus of the nose.

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

1. The female sex hormones secreted by the ovary are _____ and _____
2. _____ is the largest salivary gland.
3. _____ are the actual sites of air exchange in the lungs.
4. Capillaries connect the _____ and _____.
5. The middle coat of the eye ball is _____.
6. _____ fibers cross in the optic chiasma.
7. _____ is an opening in the iris.
8. _____ muscles are responsible for closure of the eye lids.
9. _____ canal is a circular tube in the angle of the anterior chamber contributing to drainage of aqueous.
10. Nasociliary nerve is a branch of the _____ division of the trigeminal nerve.

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

1. Small intestine.
2. Deltoid
3. Ear
4. Neuron
5. Cornea
6. Lymph node
7. Vitreous

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

1. Heart – External and internal features. Add diagrams wherever necessary.
2. Blood supply of Brain. Draw and Explain Circle of Willis in detail.
3. Draw a labeled diagram of the cross section of an eye ball. Write an essay on the anatomy of Retina.