



KERALA VETERINARY AND ANIMAL SCIENCES UNIVERSITY
FACULTY OF VETERINARY AND ANIMAL SCIENCES
1st Year B.V.Sc. & A. II. Annual Professional Examination
DECEMBER - 2021

NAME OF THE SUBJECT: VETERINARY ANATOMY (4+3) – PAPER I

Total Time: 3 hours

Total Marks: 100

(Attempt all the Part-A questions in the question paper itself. Do not write your name or admission number anywhere in the question paper. This question paper has to be attached securely with the main answer book)

PART A - (OBJECTIVE TYPE)

40 MARKS

I Fill in the blanks

(1.0 x 15 = 15 marks)

1. Heterotropic bone present in the diaphragm of camel is
2. The prominent part on the dorsal surface of tongue in Ox is
3. The duct of mandibular salivary gland is called as
4. The pericardium is attached to the sternal part of diaphragm by a fibrous band called asligament
5. Brachialis muscle is located in groove of humerus
6. There are pairs of intercostals arteries.
7. The largest paranasal sinus is in Ox
8. The yellow elastic ligament at neck region is called as
9. Jugular furrow lodges vein.
10. The muscle of arm that originates from tuber scapula is called as
11. A crescent shaped fold of dura mater in the transverse fissure between cerebral hemispheres and cerebellum is
12. A triangular neck muscle inserted to tuberos part of scapular spine is
13. A band of muscle that covers the parotid salivary gland is
14. The ventral primary branches of last 3 cervical and first 2 thoracic spinal nerves unite to form plexus
15. Largest lymphatic vessel in the body is

II. Choose the correct answer and write down the alphabet in the bracketed space

(0.5 x 20 = 10 marks)

1. Tooth like process seen in axis is called ()

a) Odontoid process	b) Accessory process
c) Extensor process	d) Mammillary process

2. Supratrochlear foramen is seen in humerus of ()
 a) Ox b) Horse
 c) Dog d) Fowl
3. Infundibulum cup in horse is present in ()
 a) Incisors b) Canines
 c) Premolars d) Molars
4. Apical bronchus is detached from trachea at the level of ()
 a) 1st rib b) 3rd rib
 c) 5th rib d) 10th rib
5. The evagination of Eustachian tube in horse is ()
 a) Laryngeal sacculle b) Laryngeal prominence
 c) Cavum oris d) Guttural pouch
6. Sella turcica is present in ()
 a) Ethmoid b) Sphenoid
 c) Temporal d) Maxilla
7. The nervous tunic of eye ball is ()
 a) Cornea b) Sclera
 c) Retina d) Iris
8. The salivary gland present below the base of the ear is ()
 a) Sublingual b) Parotid
 c) Submaxillary d) Zygomatic
9. Arterial supply to the heart is through ()
 a) Coronary artery b) Pulmonary artery
 c) Carotid artery d) Brachial artery
- 10) Motor cranial nerve to the eye ball is ()
 a) Olfactory b) Optic
 c) Oculomotor d) Trigeminal
11. A shallow cup like articular depression in a bone is called as ()
 a) Fossa b) Fovea
 c) Cotyloid cavity d) Glenoid cavity
12. Arbor vitae is the arrangement of white substance in ()
 a) Cerebrum b) Medulla oblongata
 c) Cerebellum d) Pons

13. Which one of the foramen is present in Maxilla bone ()
 a) Supraorbital foramen b) Infraorbital foramen
 c) Foramen orbito-rotundum d) Optic foramen
14. Recurrent laryngeal nerve supplies all the muscles of larynx, except ()
 a) Thyro-arytenoideus b) Crico-arytenoideus
 c) Arytenoideus transverses d) Crico-thyroideus
15. Petrous part of petrous temporal bone lodges ()
 a) External ear b) Middle ear
 c) Internal ear d) All of the above
16. Fused thoracic vertebrae is present in ()
 a) Ox b) Horse
 c) Dog d) Fowl
17. The insertion of extensor carpi radialis is ()
 a) Metacarpal tuberosity b) Metatarsal tuberosity
 c) 2nd & 3rd Phalanx of lateral digit d) 2nd and 3rd phalanx of medial digit
18. The two divisions of sternocephalicus are ()
 a) Thyrohyoideus & omohyoideus b) Omotransversarius & sternothyroideus
 c) Cleido occipitalis & cleido mastoideus d) Sternomandibularis & sternomastoideus
19. The muscle present inside the middle ear is ()
 a) Anconeus b) Parotido auricularis
 c) Tensor tympani d) Scutulo auricularis
20. Pecten is present in the eyes of ()
 a) Ox b) Sheep
 c) Pig d) Fowl

III. State True or False

(0.5 x 20 = 10 marks)

1. The foramen magnum is the largest foramen in the skull ()
2. Anconeus process is present in humerus ()
3. Longus colli is the longest muscle in the body. ()
4. Diaphragm is pierced by three foramina ()
5. Columella is the only auditory ossicle present in fowl ()
6. Thyroid gland of both sides joined by isthmus in ox ()
7. Septum pellucidum separates the 3rd and 4th ventricles of brain ()
8. Cisterna chyli is the largest lymphoid trunk in the body ()
9. Cartilaginous rings are 'C' shaped in trachea of fowl ()
10. Terminal part of spinal cord is called cauda equina ()
11. The cornual process is a part of occipital bone in Ox ()

12. The oculomotor nerve supplies all 7 muscles of eyeball ()
13. Laryngeal sacculi are present in equines ()
14. Rete mirabile cerebri is an arterial network around pituitary gland ()
15. Fissures are deep and reach the hilus of lungs in dog ()
16. Thoracodorsal artery supplies the latissimus dorsi muscle ()
17. The vestigial last molar is called wolf tooth in Horse ()
18. Semicircular canals in the inner ear are 5 in number ()
19. All the bones of pelvic girdle form foramen triossum in fowl ()
20. The bony orbital ring in dog is incomplete ()

IV. Match the following.

(0.5 x 10 = 5 marks)

	Column A		Column B
1	Diaphragma sellae	A	Corpora quadrigemina
2	Wish bone	B	External jugular vein
3	False nostrils	C	Ventricle of heart
4	Dental pad	D	Tongue of dog
5	Nates	E	Spur
6	Tarsometatarsus	F	Organ of voice
7	Lyssa	G	Clavicle of fowl
8	Syrinx	H	Ox
9	Vortex cordis	I	Fold of duramater
10	Intravenous injection	J	Horse

PART B - (SUBJECTIVE TYPE)

60 MARKS

V. Write short notes on ANY EIGHT of the following

(5.0 x 8 = 40 marks)

1. Classification of joints
2. Cartilages of larynx in Ox
3. Explain the muscles of forearm region
4. Differentiate the mandible of Ox and Horse

5. Differentiate the left and right atria of heart
6. Describe the Fibrous tunic of eye ball
7. Indications and sites of Nerve blocks of head region
8. List out the cranial nerves with their Type, Origin and Foramen of exit
9. What are pneumatic bones and explain Sternum of fowl
10. Muscles of eye ball

VI. Write an essay on ANY TWO of the following

(10.0 x 2 = 20 marks)

1. Enumerate bones and joints of forelimb and describe Scapula of Ox, Horse and Dog
2. Describe the gross anatomy of Lungs in Ox and Horse
3. Explain the branches of Brachial artery and its supply to muscles of forelimb