

Please write your Roll Number above this line

**B.V.Sc. & A.H. (First Professional) Examination – 2023**  
**Veterinary Anatomy Paper –I**  
**(MSVE 2016)**

**Time: Three Hours**

**Maximum Marks: 100**  
**Weightage: 20**

Unit-1 : General Osteology, Arthrology and Myology

Unit-2 : Fore limb

Unit-3 : Head and Neck

Unit-4 : Thorax

**Instructions:**

- 1) Attempt all questions
- 2) Answer of all questions is to be written in the space provided along with the question in question-booklet.
- 3) Overwriting is not allowed in the objective type question.

**Q.1 Fill in the blanks.**

**(20x0.5 = 10)**

- 1.1 A projection on the bone is called as.....
- 1.2 Surgical opening of the trachea is termed as.....
- 1.3 Muscles having more amount of myoglobin are called as.....
- 1.4 ..... is the paired cartilage of the larynx.
- 1.5 The biceps brachii muscle is inserted on .....tuberosity.
- 1.6 The right atrio-ventricular opening is guarded by.....valve.
- 1.7 The number of metacarpal bones in each limb of the horse is .....
- 1.8 The number of sternal ribs in an ox is .....
- 1.9 The styloid process of the ulna is absent in ..... (species)
- 1.10 The shape of an eye lens is .....
- 1.11 The ..... arteries provide the blood supply to intercostal muscles.
- 1.12 The number of thoracic vertebrae in the case of horses is .....
- 1.13 The terminal conical part of the spinal cord is known as.....
- 1.14 The duct of the parotid salivary gland is called as.....
- 1.15 Torus linguae is the characteristic feature of the tongue of ..... (species).
- 1.16 The shape of the malleus bone of the ear is .....
- 1.17 The lobulation is not distinct in the lungs of .....(species).
- 1.18 Subscapular muscle is innervated by ..... nerve.
- 1.19 Aggregation of nerve cell bodies outside of CNS is known as.....
- 1.20 Upper incisors are absent in ..... (species)

Please ... this line

Q.2 Choose the most suitable answer and write the number of the correct answer  
1 or 2 or 3 or 4 in the space given against each sub question: (20x0.5 = 10)

- 2.1 Only extension and flexion movement is present in  
1. Arthrodia  
2. Ginglymus  
3. Enarthrosis  
4. Pivot Joint
- 2.2 The diaphysis is the characteristic feature of.....  
1. Long bone  
2. Flat bone  
3. Short bone  
4. Irregular bone
- 2.3 Which of the following artery supply the blood to the lungs?  
1. Carotid artery  
2. Bronchial artery  
3. Coronary artery  
4. Internal thoracic artery
- 2.4 Which of the following foramen is the largest foramen of skull?  
1. Infraorbital foramen  
2. Foramen magnum  
3. Mental foramen  
4. Maxillary foramen
- 2.5 The diaphragm sellae is a fold of....  
1. Spinal dura mater  
2. Spinal pia mater  
3. Cranial arachnoid  
4. Cranial dura mater
- 2.6 The alar notch is present in.....  
1. Atlas of dog  
2. Axis of dog  
3. Atlas of horse  
4. Axis of pig
- 2.7 Extensor process is present on.....of the ox.  
1. Radius bone  
2. Third phalanx  
3. First phalanx  
4. Scapula
- 2.8 The number of transverse ridges on the hard palate of ox is  
1. 10  
2. 15-19  
3. 8-13  
4. 22-25
- 2.9 Which of the following nerve provide nerve supply to horns?  
1. Hypoglossal nerve  
2. Facial nerve  
3. Cornual nerve  
4. Infraorbital nerve

- 2.10 Which of the following structure present only in the eyes of birds? ( )
1. Cornea
  2. Lens
  3. Pecten
  4. Choroid
- 2.11 The type of Atlanto-axial articulation is.... ( )
1. Pivot joint
  2. Hinge joint
  3. Ball and socket
  4. Gliding joint
- 2.12 The location of papilla salivaris in the horse is about the level of....( )
1. Opposite to upper 5<sup>th</sup> cheek tooth
  2. Opposite to lower 5<sup>th</sup> cheek tooth
  3. Opposite to upper 3<sup>rd</sup> cheek tooth
  4. Opposite to lower 3<sup>rd</sup> cheek tooth
- 2.13 The parasympathetic nervous system is also termed as ( )
1. Cranio- cervical outflow
  2. Thoraco-sacral outflow
  3. Thoraco-lumbar outflow
  4. Cranio-sacral outflow
- 2.14 Which of the following is the example of exo-skeleton in mammals? ( )
1. Skull, sternum, ribs, and vertebrae
  2. Feathers, scales
  3. Bones of forelimb and hind limb
  4. Hairs, hooves, horns, claws, and nails
- 2.15 Which of the following sentence is true regarding mediastinum? ( )
1. In horses, posterior mediastinum appears fenestrated.
  2. In ox posterior mediastinum appears fenestrated
  3. In horses, mediastinum is not fenestrated.
  4. Mediastinum is absent in dogs.
- 2.16 Which of the following muscle extends the elbow joint? ( )
1. Brachialis
  2. Biceps brachii
  3. Triceps brachii
  4. Extensor carpi radialis
- 2.17 Boat-shaped sternum is found in? ( )
1. Pig
  2. Horse
  3. Dog
  4. Cattle
- 2.18 Latissimus dorsi muscle is innervated by.... ( )
1. Thoraco dorsal nerve
  2. Long thoracic nerve
  3. External thoracic nerve
  4. Musculocutaneous nerve

- 2.19 The characteristic feature of a thoracic vertebra is
1. Highly developed transverse processes.
  2. Well-developed supra spinous processes.
  3. Presence of capitular facet on body
  4. Both 2 & 3

- 2.20 Which of the following is an expiratory muscle?
1. Diaphragm
  2. Internal intercostal
  3. External intercostal
  4. Rectus thoraces

**Q.3 Attempt any ten out of the following twelve questions. Answer of each question should be in 2 to 3 lines.**  
**(10x2.0= 20)**

3.1 Median plane

-----

-----

-----

-----

-----

3.2 Symphysis

-----

-----

-----

-----

-----

3.3 Facia

-----

-----

-----

-----

-----

3.4 Enlist the muscle of the arm region

-----

-----

Please write your Roll Number above this line

3.5 Synsarcosis

3.6 Fossa Atlantis

3.7 Write the dental formula of the permanent teeth of the ox.

3.8 Apical bronchus

3.9 Torus linguae

-----  
-----  
-----  
-----

3.10 Pupil

-----  
-----  
-----  
-----  
-----

3.11 Guttural pouch

-----  
-----  
-----  
-----  
-----

3.12 Uncinate process

-----  
-----  
-----  
-----  
-----

**Q.4 Attempt any six out of the following eight questions. Answer of each question should be in 8 to 10 lines. (6 x 6.0 = 36)**

4.1 Classify the bones with suitable examples.

-----  
-----

Please write your Roll Number above this line

4.2 Enlist the different types of fibrous joints and explain the sutures.

4.3 Write the topographic location of the heart and explain the external structure of the heart.

Please write your Roll Number above this line

4.4 Write about the axis of the ox.

4.5 Write about the diaphragm of the ox.



Please write your Roll Number above this line

Handwriting practice lines consisting of six sets of three horizontal lines (top solid, middle dashed, bottom solid).

4.6 Write about the right lung of the ox.

Handwriting practice lines consisting of ten sets of three horizontal lines (top solid, middle dashed, bottom solid). A diagonal line is drawn across these lines from the bottom left to the top right.

4.7 Explain the tunics of the eyeball in brief.

Handwriting practice lines consisting of seven sets of three horizontal lines (top solid, middle dashed, bottom solid).

4.8 Write a brief note on the salivary gland of the ox.

**Q.5 Answer the following question in 1-2 pages (attempt any two). (2x12.0 = 24)**

5.1 Describe in detail the structure of the humerus of ox and compare it with that of horse, dog, pig, and fowl.

5.2 Enumerate the cranial nerves serially with their type and describe the trigeminal nerve in detail.

5.3 Describe the blood supply of the forelimb in detail.