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B.V.Sc. & A.H. (First Professional) Examination – 2022
Veterinary Anatomy Paper –II
(MSVE 2016)

Time: Three Hours

Maximum Marks: 100
Weightage: 20

- Unit-5 : Abdomen
- Unit-6 : Hind limb and pelvis
- Unit-7 : Cytology
- Unit-8 : Embryology

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 In kidney of ox, the apex of each lobe of renal medulla is called _____.
- 1.2 The _____ (species) has the largest ovaries among domestic animals.
- 1.3 The oesophageal diverticulum in poultry is called _____.
- 1.4 The space between testis and body of epididymis is called _____.
- 1.5 Mesentery is peritoneum attachment of the _____.
- 1.6 The liver of dog has _____ (number) lobes.
- 1.7 The ceca is double in _____ (species).
- 1.8 The protein secreting cells have well developed _____ (organelle).
- 1.9 Urinary bladder is lined by _____ type of epithelium.
- 1.10 Round ligament of liver is the remnant of _____.
- 1.11 The endoderm and splanchnic mesoderm together are called _____.
- 1.12 The most common staining method used for histological examination is _____.
- 1.13 Intestinal glands present in the lamina Propria are known as _____.
- 1.14 A sesamoid bone present on posterior aspect of the distal end of femur of dog is called as _____.
- 1.15 Medial and lateral condyles of tibia are separated by _____.
- 1.16 Greater trochanter is at _____ level than head of femur in dog.

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- 1.17 Median sacral crest is present in prominent in _____.
- 1.18 The space between the periosteum of vertebral canal and duramater is called _____.
- 1.19 Posterior part of spinal cord tapers to a pointed extremity called _____.
- 1.20 In cow superficial inguinal lymph node is called as _____ lymph node.

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 Fused T7, L+S14, Cy1 in fowl is called ()
1. Notarium
2. Synsacrum
3. Pygostyle
4. None
- 2.2 On which bone Greater Trochanter is found? ()
1. Humerus
2. Femur
3. scapula
4. Os coxae
- 2.3 All statements are true regarding Os coxae of Horse except ()
1. Trifed tuberosity
2. Ischial arch less deep
3. Ventral tubercle absent
4. Flat bone
- 2.4 The internal pudendal artery is a terminal branch of ()
1. Iliolumbar artery
2. Celiac artery
3. External iliac artery
4. Internal Iliac artery
- 2.5 Saphenous nerve is a branch of ()
1. Femoral nerve
2. Sciatic nerve
3. Tibial nerve
4. Cranial gluteal nerve
- 2.6 Linea alba is formed by aponeurosis of ()
1. External oblique muscle
2. Internal oblique muscle
3. Transverse abdominus muscle
4. All of above
- 2.7 Sternum is boat shaped in ()
1. Pig
2. Dog
3. Ox
4. Horse

- 2.8 Which of the following thoracic vertebra is anticlinal in ox ()
1. 10th
2. 11th
3. 12th
4. 13th
- 2.9 The smallest of three bones forming os coxae is: ()
1. Ilium
2. Ischium
3. Pelvic bone
4. Pubis
- 2.10 The ovary is almost completely enclosed by ovarian bursa in: ()
1. Horse
2. Dog
3. Rabbit
4. None of above
- 2.11 The uterine horns appear like coils of intestine in: ()
1. Ox
2. Horse
3. Pig
4. Dog
- 2.12 Longest urethral process is present in: ()
1. Ox
2. Horse
3. Ram
4. Pig
- 2.13 Cruciate ligament is observed in the of the following joint ()
1. Hock joint
2. Stifle joint
3. Elbow joint
4. Knee joint
- 2.14 Russell bodies are related to ()
1. Plasma cell
2. Mast cell
3. Neuron
4. Macrophage
- 2.15 Parotid salivary gland can be differentiated from pancreas by ()
1. Absence of centroacinar cells
2. Absence of Islets of Langerhans
3. Presence of myoepithelial cells
4. All of the above
- 2.16 Herring bodies are feature of ()
1. Pars tuberalis
2. Pars intermedia
3. Neurohypophysis
4. Pars distalis

2.17 Distal convoluted tubules are lined by ()

1. Simple cuboidal epithelium
2. Simple columnar
3. Pseudostratified columnar
4. Stratified squamous

2.18 Nervous system is derivative of ()

1. Ectoderm
2. Mesoderm
3. Endoderm
4. All of above

2.19 All are related to popliteal fossa except ()

1. Femur
2. Lateral condyle
3. Popliteal muscle
4. Humerus

2.20 The obturator foramen is present between ()

1. Scapula and Humerus
2. Ilium and pubis
3. Ischium and pubis
4. Radius and ulna

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 Ligamentum nuchae in horse

3.2 Upward fixation of patella

3.3 Juxta glomerular apparatus

3.4 Trigonum Vesicae

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3.5 Sternum of fowl

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3.6 Lateral Malleolus of ox

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3.7 Portal Circulation

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3.8 Promontary

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3.9 Sinus Tarsii

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3.10 Zona Reaction

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3.11 Podocytes

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3.12 Blastulation

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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 Explain the structure of Stifle joint with a well labelled diagram

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4.2 What is cleavage? Discuss different types of cleavage in relation to type of ova

4.3 Explain the intestine of horse with a well labelled diagram

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4.4 Explain the structure of femur of ox and compare it with horse.

Handwriting practice lines for question 4.4, consisting of multiple sets of dashed lines on a solid baseline.

4.5 Explain the histology of the testis of Bull

Handwriting practice lines for question 4.5, consisting of multiple sets of dashed lines on a solid baseline.

4.8 Detail out the oviduct of Fowl

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

- 5.1 Explain the anatomy of the female genital system of a cow along with a well labelled diagram.
- 5.2 Explain the formation and branches of the lumbosacral plexus
- 5.3 What is placenta? Write in detail about types of placenta on the basis of histological structure.