

B.V.Sc. & A.H. (First Professional) Examination – 2023
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 Type of epithelium found in the skin is
- 1.2 The epithelium found in the trachea is
- 1.3 Type of epithelium found in the pleura is
- 1.4 Type of epithelium found in the thyroid follicles is
- 1.5 Type of epithelium found in the macula densa is
- 1.6 Type of epithelium found in the urinary bladder is
- 1.7 The largest leukocyte found in the blood is
- 1.8 Number of mammary glands found in cow are
- 1.9 End bulb of Krause is a receptor
- 1.10 The nerve ending working as heat receptor is
- 1.11 In type of ova, the yolk is found in the centre.
- 1.12 The speed of cleavage is inversely proportional to the
- 1.13 Ovulation fossa is found in the ovary of (species)
- 1.14 Enamel of tooth originates from (germ layer)
- 1.15 Middle ear originates from (germ layer)
- 1.16 Cotyledonary type of placenta is found in (Species)
- 1.17 Palatine tonsils develop from the second pair of
- 1.18 Adrenal cortex originates from (germ layer)
- 1.19 Interatrial septum is formed by septum primum and
- 1.20 In pancreas the β – cells are found in the of pancreatic islets

Please write your Roll Number above the 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 Liver of horse consisted of
1. two lobes
2. three lobes
3. four lobes
4. five lobes ()
- 2.2 Which one is not a function of epithelial
1. protection
2. absorption
3. secretion
4. nutrition ()
- 2.3 In sebaceous gland the mode of secretion is
1. eccrine
2. apocrine
3. holocrine
4. cytocrine ()
- 2.4 Type of secretory product of pancreas is
1. serous
2. mucus
3. both a & b
4. none of these ()
- 2.5 Mammary gland is an example of
1. simple gland
2. compound alveolar gland
3. compound tubular gland
4. compound tubulo-alveolar gland ()
- 2.6 Muscle fibers having striations and nucleus at the periphery
1. smooth muscle
2. skeletal muscle
3. cardiac muscle
4. none of these ()
- 2.7 Connective tissue is composed of
1. cells
2. fibers
3. amorphous ground substances
4. all of these ()
- 2.8 In cartilage which type of collagen fibers are found
1. type-I
2. type-II
3. type-III
4. type-IV ()
- 2.9 Which is a free cell of loose connective tissue
1. fibroblast
2. pericytes
3. adipose cells
4. macrophage ()

- 2.10 Unpaired artery present in the body is ()
1. Renal
2. Testicular
3. Lumbar
4. Celiac
- 2.11 Mallory's triple stain is used for staining of ()
1. Collagen fibers
2. Reticular fibers
3. Elastic fibers
4. Nerve fibers
- 2.12 Jenus Green B stain is used for identification of ()
1. Nucleus
2. Cytoplasm
3. Mitochondria
4. None of these
- 2.13 Rough endoplasmic reticulum is studded with ()
1. ribosome
2. lysosome
3. peroxisome
4. none of these
- 2.14 Which cytoplasmic organelle is called as Power house of energy ()
1. Golgi body
2. Mitochondria
3. Lysosome
4. Nucleus
- 2.15 Un-striated muscle found in the body is ()
1. Skeletal muscle
2. Cardiac muscle
3. Smooth muscle
4. None of these
- 2.16 Russell bodies are found in ()
1. Plasma cell
2. Mast cell
3. Macrophages
4. None of these
- 2.17 Oxyphil cells are found in ()
1. Thyroid gland
2. Parathyroid gland
3. Adrenal gland
4. Pituitary gland
- 2.18 Zonary type of placenta is found in ()
1. Cow
2. Mare
3. Bitch
4. Sow
- 2.19 Perichondrium is not found in ()
1. Hyaline cartilage
2. Elastic cartilage
3. Fibrocartilage
4. None of these

- 2.20 Payer's patches are found in
1. Stomach
 2. Duodenum
 3. Ileum
 4. Liver

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 Trochlea

3.2 Peritoneal reflection

3.3 Quadrification of aorta

3.4 Conjugate diameter

Please write your Roll Number above this line _____

3.5 Super-focundation

Four sets of horizontal dashed lines for writing the answer to question 3.5.

3.6 Plasma cell

Four sets of horizontal dashed lines for writing the answer to question 3.6.

3.7 Patella

Four sets of horizontal dashed lines for writing the answer to question 3.7.

3.8 Boundaries of the flank region

Four sets of horizontal dashed lines for writing the answer to question 3.8.

3.9 Stifle Joint

Four sets of horizontal dashed lines for writing the answer to question 3.9.

3.10 Epidural anaesthesia

3.11 Write the contents of spermatic cord

3.12 Define embryology

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 Histologically differentiate the Cardiac muscle fiber and Purkinje fiber

Please write your Roll Number above this line

4.2 Histologically differentiate the Bronchi and Bronchiole

4.3 Histological structure of J-G Apparatus / J-G Complex

4.4 Sacrum of Horse

4.5 Hirtological structure of testes

Please write your Roll Number above this line

4.6 Lumbosacral plexus

4.7 Derivatives of pharyngeal pouches

4.8 Principles of cleavage

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

- 5.1 Enlist the organs of female genital system; also write the gross characteristics features of the uterus of cow, mare, bitch and sow.
- 5.2 Enlist the primary and secondary lymphatic organs found in the body, also write the Histology of the spleen in detail.
- 5.3 Write in detail about Extra Embryonic Membranes / Fetal Membranes and classify the mammalian placenta on histological basis with suitable examples.