

Total Number of pages 20

**B.V.Sc. & A.H. (Part - I) Examination - 2016  
of the Five-Year Degree Course**

**VETERINARY ANATOMY PAPER- I**

**To be filled by the candidate:**

Candidate's Roll Number:

In figure .....

In words .....

Candidate's Enrolment Number: .....

Day and date of examination: .....

Please see for general instructions overleaf.

Signatures of invigilators verifying the details filled by the candidate

Signature of invigilator 1: ..... 2: .....

*Manoj*  
**Centre Superintendent  
PGVER, Jaipur**



Candidate should not write anything below this line

**Marks to be filled by the examiner:**

Section A		Section B	
Q. No.	Marks	Q. No.	Marks
1.		6.	
2.		7.	
3.		8.	
4.		9.	
5.		10.	
<b>Total</b>		<b>Total</b>	

Total Marks obtained:

In figures: ..... In words: .....

Signature of examiner: .....

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**INSTRUCTIONS TO THE CANDIDATES**

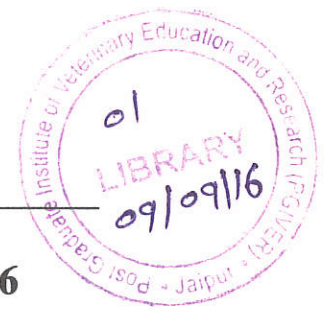
1. The invigilator and the members of the Flying Squad are empowered to take search of the examinees during the examinations.
2. Candidate should read the question paper and the instructions carefully before they begin to write answers.
3. The candidate will not be allowed to leave the examination hall before one hour form the end of the examination time.
4. Write on the cover page all the required entries correctly and get the signature of the invigilators.
5. Write legibly in the space provided for answer of each questions/sub-questions according to instruction given in the question paper booklet (question paper).
6. Do not write your name on any part of the question paper / answer booklet.
7. Do not leave examination hall without handing over question paper / answer booklet to the invigilator incharge.
8. No leaves should be torn out of the question paper / answer booklet.
9. Candidate attempting to use unfair means or talking to one another will be dealt with severely as per unfair means rules.
10. No written paper or book notes etc. should be brought to examination hall.
11. Total number of pages of question paper / answer booklet be checked before writing.
12. Candidate should not bring in any article other than pens and admit card. Use of Mobiles, calculators on any other electronic device in the examination hall is strictly prohibited.

**SPACE FOR ROUGH WORK**

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**B.V.Sc. & A.H. (Part – I) Examination – 2016  
of the Five-Year Degree Course**

**VETERINARY ANATOMY PAPER- I**

**Time: Three Hours**

**Maximum Marks: 60**

Section A: Veterinary Gross Anatomy-I: VAN-111

(Osteology, Arthrology and Biomechanics)

Marks 30

Section B: Veterinary Gross Anatomy-II: VAN- 121

(Myology, Neurology, Angiology and Aesthesiology)

Marks 30

**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.

**SECTION – A**

**Veterinary Gross Anatomy-I: VAN-111  
(Osteology, Arthrology and Biomechanics)**

**Maximum Marks 30**

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

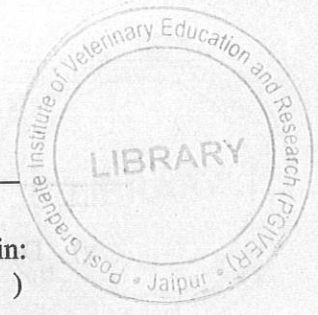
**(9x0.5 = 4.5)**

- i. A depression present on the head of femur is known as \_\_\_\_\_.
- ii. The ox can kick sideways as the \_\_\_\_\_ is absent in this species.
- iii. The term \_\_\_\_\_ is applied to the implantation of teeth in the alveoli.
- iv. \_\_\_\_\_ means movement of a limb away from the median plane.
- v. The \_\_\_\_\_ part of the temporal bone is the hardest bone of the regular skeleton.
- vi. The series of joints formed between the bodies of the vertebrae are known as \_\_\_\_\_ articulations.
- vii. Pygostyle is found in \_\_\_\_\_ (species).
- viii. Foramen ovale is found in the wing of \_\_\_\_\_ bone of skull.
- ix. Supratrochlear foramen is present in \_\_\_\_\_ of Dog.

**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: (9x0.5 = 4.5)**

- i. Unpaired facial bone of skull is: ( )  
1. Vomer bone  
2. Mandible bone  
3. Both of the above  
4. None of the above
- ii. Infraorbital foramen is present in: ( )  
1. Maxillary bone  
2. Frontal bone  
3. Palatine bone  
4. Premaxilla bone
- iii. Tibial crest is grooved in: ( )  
1. Horse  
2. Dog  
3. Pig  
4. Ox
- iv. Which of the following is the ball and socket type of joint: ( )  
1. Elbow joint  
2. Shoulder joint  
3. Pastern joint  
4. Stifle joint
- v. Alar notch is present in the atlas of: ( )  
1. Ox  
2. Horse  
3. Dog  
4. Fowl
- vi. Cariniform cartilage is related to sternum of: ( )  
1. Ox  
2. Horse  
3. Dog  
4. Fowl
- vii. Median sacral crest is notched in the sacrum of: ( )  
1. Ox  
2. Horse  
3. Dog  
4. Fowl
- viii. Which of the following is the diarthrodial joint in the skull: ( )  
1. Temporo-mandibular articulation  
2. Nasal Suture  
3. Mandibular Symphysis  
4. Interfrontal suture





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ix. Notarium is formed by the fusion of 2nd to 5th thoracic vertebrae in:

( )

- 1. Ox
- 2. Horse
- 3. Dog
- 4. Fowl

**Q.3 Attempt any nine out of the following twelve questions. Answer of each question should be in 2 to 3 lines. (9x1= 9)**

i) Define Veterinary Anatomy:

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ii) What is Skeleton?

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iii) Define Abduction:

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iv) Define Trochlea:

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v) Define synsarcosis:

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vi) Define Biomechanics:

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vii) What is cotyloid cavity?

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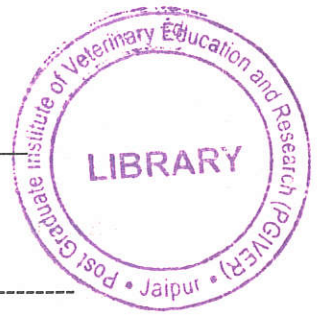
viii) How many sternal segments are found in sternum of Ox?

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ix) What is sesamoid bone?

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x) Define median plane:

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xi) Name the three patellar straight ligaments of Ox.

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xii) What is Diploe?

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**Q.4 Attempt any three out of the following four questions. Answer of each question should be in 5 to 8 lines. (3x2 = 6)**

i) Proximal extremity of femur of Ox.

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ii) Sacrum of Ox.

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iii) List out the cranial bones of Ox.

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iv) Differentiate between Scapula of Ox and Horse.

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**Q.5 Answer the following question in 1-2 pages (attempt any one). (1x6 = 6)**

- i. Describe in detail the humerus of Ox and compare it with those of horse and dog.
- ii. What are the various structure involved in formation of synovial joints?  
Describe the stifle joint of Ox.

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**SECTION - B**

**Veterinary Gross Anatomy-II: VAN- 121**  
**(Myology, Neurology, Angiology and Aesthesiology)**

**Maximum Marks 30**

**Q.6 Fill in the blanks. (9x0.5 = 4.5)**

- i. Middle colic artery is the branch of \_\_\_\_\_ artery.
- ii. \_\_\_\_\_ artery is the first branch of aorta.
- iii. The continuation of external iliac artery in the thigh region is known as \_\_\_\_\_.
- iv. Crista terminalis is present in \_\_\_\_\_ of heart.
- v. When a vein accompany the course of an artery it is known as \_\_\_\_\_ vein.
- vi. Vermis is the part of \_\_\_\_\_.
- vii. Latissimus dorsi muscle is innervated by \_\_\_\_\_.
- viii. Retina is part of \_\_\_\_\_ tunic of eye ball.
- ix. Fold of the duramater present between the two cerebral hemispheres is known as \_\_\_\_\_.

**Q.7 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: (9x0.5 = 4.5)**

- i. Which of the following structure doesn't pass through femoral canal: ( )
  1. Femoral artery
  2. Saphenous artery
  3. Femoral vein
  4. Saphenous nerve
- ii. Which of the following artery supply blood to gall bladder: ( )
  1. Pancreatic artery
  2. Cystic artery
  3. Pulmonary vein
  4. Umbilical artery
- iii. Which of the following artery is used for pulse recording in ox: ( )
  1. Middle coccygeal artery
  2. Saphenous artery
  3. Femoral artery
  4. Middle uterine artery



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- iv. Primary loop in brachial plexus is formed between: ( )
1. Radial & Ulnar nerve
  2. Medial & Ulnar nerve
  3. Musculocutaneous & Median nerve
  4. Musculo cutaneous & Radial nerve
- v. Apex of heart is formed by: ( )
1. Right ventricle
  2. Left ventricle
  3. Both Left & Right Ventricle
  4. Left atrium
- vi. Third ventricle of brain communicates with the fourth ventricle by: ( )
1. Foramen of Monro
  2. Foramen of Luska
  3. Aqueduct of Sylvius
  4. Foramen orbitorotundum
- vii. Scala vestibuli and scala tympani communicate though: ( )
1. Ductus reuniens
  2. Spiral canal
  3. Helicotrema
  4. Endolymphatic duct
- viii. The caudal cutaneous nerve of the leg is the branch of: ( )
1. Sciatic nerve
  2. Femoral nerve
  3. Tibial nerve
  4. Peroneal nerve
- ix. The dorsal boundary of jugular furrow is formed by: ( )
1. Omotransversarius
  2. Brachiocephalicus
  3. Sternocephalicus
  4. Sternothyro-hyoideus

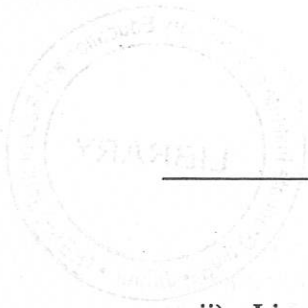
**Q.8 Attempt any nine out of the following twelve questions. Answer of each question should be in 2 to 3 lines. (9x1= 9)**

i) Aponeurosis:

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ii) Ligamentum arteriosum:

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iii) Conus medularis:

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iv) Linea alba:

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v) Opening of right atrium:

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vi) Septum pellucidum:

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vii) Epidural space:

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viii) Sterno-pericardiac ligament:

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ix) Ear ossicles:

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x) Limbus:

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xi) Calamus scriptorius:

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xii) Thoracic duct:

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**Q.9 Attempt any three out of the following four questions. Answer of each question should be in 5 to 8 lines. (3x2 = 6)**

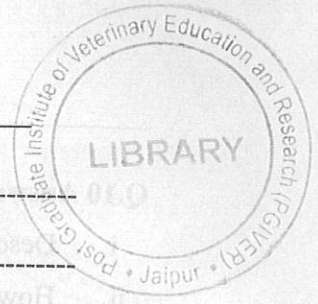
i) Branches of Brachial plexus.

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ii) Boundaries and Content of Jugular furrow:

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iii) Extensor muscles of forelimb:

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iv) Structures on ventral aspect of brain:

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**Q.10 Answer the following question in 1-2 pages (attempt any one). (1x6 = 6)**

- i. Describe the course and distribution of Coeliac artery in detail.
- ii. How is lumbo-sacral plexus formed? Describe branches and distribution of sciatic nerve.

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Q. No. ....

A series of horizontal dashed lines for writing the answer to the question.

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