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Total Number of pages 19

**B.V.Sc. & A.H. (Part – II) Examination – 2017
of the Five-Year Degree Course**

VETERINARY ANATOMY PAPER- II



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:

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.	
Total		Total	

Total Marks obtained:

In figures: In words:

Signature of examiner:

Do not write across this line

SAMPLE PAPER

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 from 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

**B.V.Sc. & A.H. (Part – II) Examination – 2017
of the Five-Year Degree Course**

VETERINARY ANATOMY PAPER- II

Time: Three Hours

Maximum Marks: 60

Section A: Veterinary Histology and Embryology: VAN-211

Marks 30

Section B: Veterinary Splanchnology and Applied Anatomy: VAN-221

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

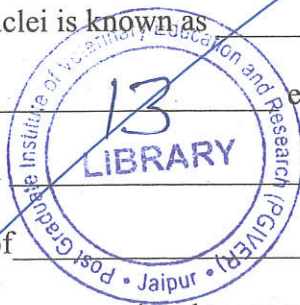
Veterinary Histology and Embryology: VAN-211

Maximum Marks 30

Q.1 Fill in the blanks.

(9x0.5 = 4.5)

- i) The process of fusion of male and female pronuclei is known as _____.
- ii) Urinary bladder is lined with _____ epithelium.
- iii) Isogenous group of cells (cell nest) are found in _____ cartilage.
- iv) Brunner's glands are found in the sub mucosa of _____.
- v) Rate of cleavage is _____ proportional to amount of yolk.
- vi) Transformation of spermatid into spermatozoa is known as _____.
- vii) In skeletal muscle, the distance between the two consecutive Z lines is called _____.
- viii) Retina develops from _____ (germ layer).
- ix) _____ is the fundamental structural unit of compact bone.



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) Myelin sheath in PNS is formed by: ()
1. Oligodendrocytes
 2. Schwan cells
 3. Microglia
 4. All of above
- ii) Thyroid follicles are lined by ()
1. Simple columnar epithelium
 2. Simple cuboidal epithelium
 3. Simple squamous epithelium
 4. Stratified cuboidal epithelium
- iii) Haploid nuclei that fuse at fertilization are called: ()
1. homunculi
 2. centrioles
 3. nucleoli
 4. pronuclei
- iv) The optic placodes develops from: ()
1. Ectoderm
 2. Endoderm
 3. Mesoderm
 4. Both Ectoderm & Endoderm
- v) Portal triad are found in: ()
1. Lungs
 2. Kidney
 3. Portal Vein
 4. Liver
- vi) Purkinje cells are found in: ()
1. Heart
 2. Cerebrum
 3. Cerebellum
 4. All of the above
- vii) Equal holoblastic cleavage is found in: ()
1. Birds
 2. Amphibian
 3. Reptile
 4. Mammalian

viii) Endotheliochorial type of placenta is present in : ()

1. Sow
2. Cow
3. Bitch
4. Bird

ix) The connective tissue cell which is concerned with antibody production is : ()

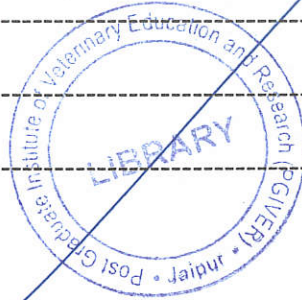
1. Mast cell
2. Plasma cell
3. Fibroblast
4. Pericyte

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) Classify gland on the basis of nature of secretory product.

ii) What are the different connective tissue fibres?

iii) What is morula?



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iv) Write down the microscopic features of smooth muscles.

v) Name the various layers present in tunica mucosa.

vi) Write down the structure of capillaries.

vii) What is fertilization?

viii) Give brief account of classical liver lobule.

ix) Enumerate the glial cells of CNS.

x) What are the derivatives of ectoderm?

xi) Histologically differentiate bronchi and bronchiole.

xii) Give brief histological features of trachea.



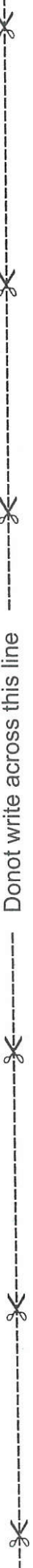
Q.4 Attempt any three out of the following four questions. Answer of each question should be in 5 to 8 lines. (3x2 = 6)

i) Classify eggs on the basis of amount of yolk with examples.

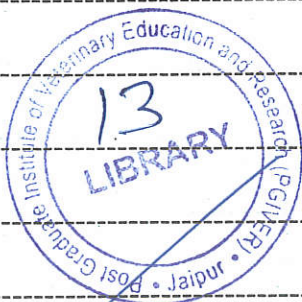
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ii) Describe the histological features of spleen.

iii) Describe the microscopic anatomy of nephron.



iv) Write the microscopic anatomy of ileum.



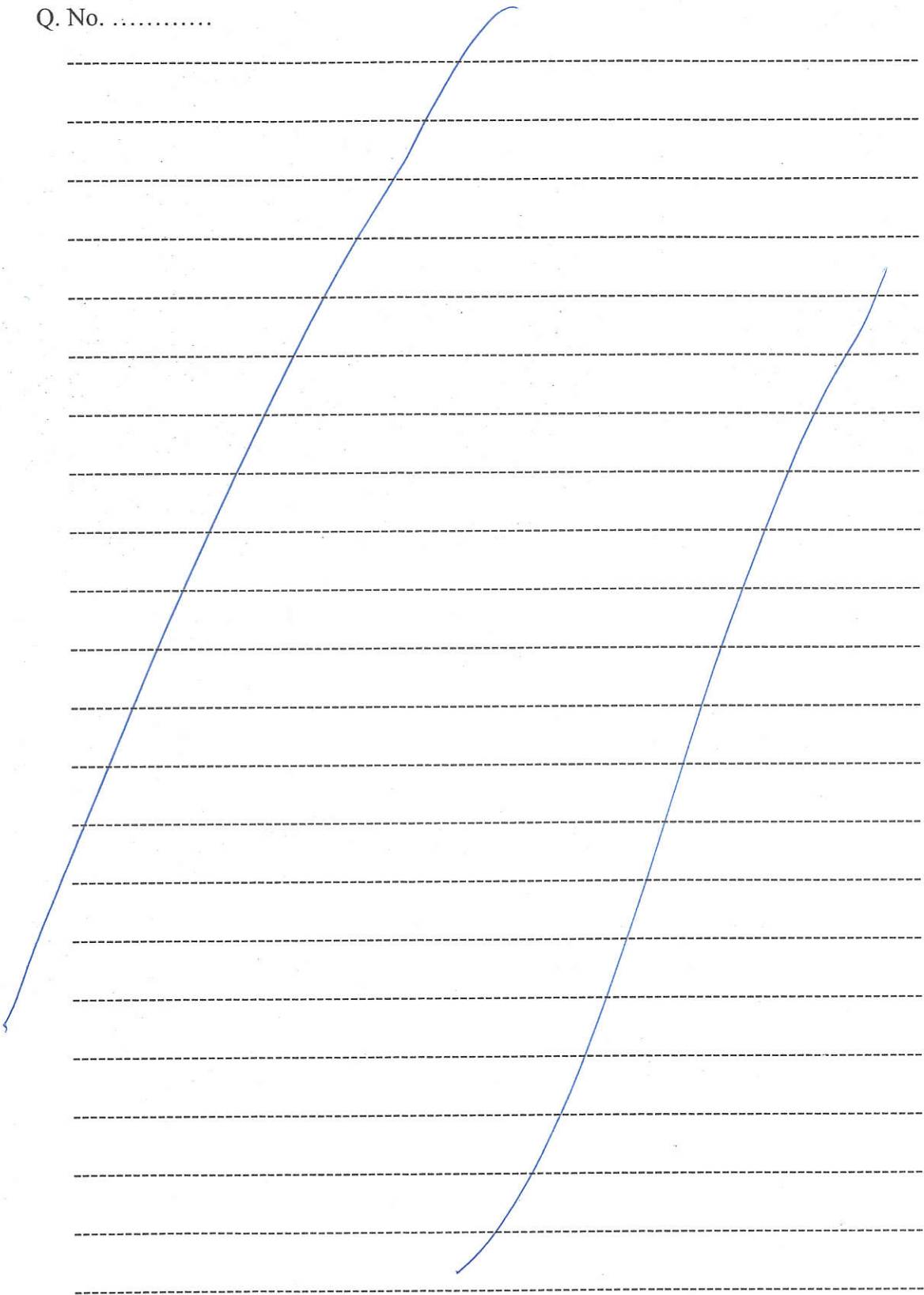
Q.5 Answer the following question in 1-2 pages (attempt any one). (1x6 = 6)

- i) What is placenta? Classify the placenta on the histological criteria and on the basis of gross appearance.
- ii) Describe the microscopic anatomy of a tubular organ. Write down the histological features of oesophagus.

Q. No.

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Q. No.



Please write Roll No. above this line _____



SECTION – B

Veterinary Splanchnology and Applied Anatomy: VAN-221

**Maximum Marks 30
(9x0.5 = 4.5)**

Q.6 Fill in the blanks.

- i. _____ is communication of mouth cavity with the pharynx.
- ii. The opening of cervix into vagina is known as _____.
- iii. The greater and lesser sac of peritoneum is communicated by a narrow passage the _____.
- iv. The tracheal rings are complete in _____ (species).
- v. Serous membrane covering the lungs is known as _____.
- vi. Largest lymphoid organ of the body is _____.
- vii. The muscular stomach in fowl is known as _____.
- viii. The position of sigmoid flexure in the penis of bull is _____.
- ix. Ovulation fossa is found in the ovary of _____ (species).

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. The endocrine gland that embedded in the fat of the kidney is: ()
 1. Pituitary
 2. Adrenal
 3. Thyroid
 4. Thymus
- ii. Vesicular gland is absent in: ()
 1. Horse
 2. Ox
 3. Dog
 4. Pig
- iii. False nostril or diverticulum nasi is present in: ()
 1. Ox
 2. Dog
 3. Horse
 4. Fowl

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iv. Bile duct and hepatic duct opens together at hepato-pancreatic ampulla in: ()

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

v. Superficial lobulated kidneys are present in: ()

- 1. Ox
- 2. Dog
- 3. Horse
- 4. All of above

vi. In fowl usually the functional ovary and oviduct is: ()

- a. Left
- b. Right
- c. Both
- d. None of the above

vii. Signet ring shaped cartilage of larynx is: ()

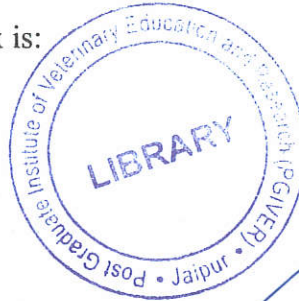
- a. Thyroid
- b. Epiglottis
- c. Arytenoid
- d. Cricoid

viii. Comma shape caecum is found in: ()

- a. Ox
- b. Fowl
- c. Dog
- d. Horse

ix. The interstitial endocrine cell of testes are also known as: ()

- a. Sertoli's cells
- b. Leydig cells
- c. Purkinje cells
- d. Parietal cells



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) Write down the boundaries of pelvic cavity.

ii) Enumerate the opening present in the diaphragm of ox.

iii) Name the lingual papillae of horse.

iv) Why oral breathing is difficult in horse?

v) What are the various accessory sex glands in bull.

vi) Write short note on spermatic cord.



vii) Enumerate the air sacs of fowl.

viii) Write short notes on the caecum of horse.



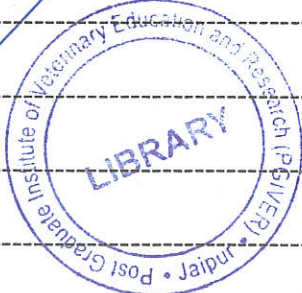
ix) Give brief outline about topographic anatomy of rumen in ox.

x) Differentiate the right and left lung of ox.

xi) Write down the characteristic features of tongue in ox.

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iii) Describe the gross anatomical features of uterus of cow.



iv) Write down the differentiating features of salivary glands of Ox, Horse and Dog.

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

- i) With a well labeled diagram describe the gross anatomical features of kidneys of Ox and compare it with those of horse, dog and fowl.
- ii) Describe the structure of testes of ox and compare it with that of horse, dog and pig.

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