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Total Number of Pages 16

**B.V.Sc. & A.H. (Part – V) Examination – 2020
of the Five-Year Degree Course
(MSVE 2008)**

VETERINARY GYNAECOLOGY AND OBSTETRICS 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	
Q. No.	Marks
1.	
2.	
3.	
4.	
5.	
Total	

Total Marks obtained:

In figures: In words:

Signature of examiner:

Do not write across this line

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

**B.V.Sc. & A.H. (Part – V) Examination – 2020
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VETERINARY GYNAECOLOGY AND OBSTETRICS PAPER-II

Time: Three Hours

Maximum Marks: 30

Section A: Veterinary Andrology and Reproductive Techniques: VGO-511

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.

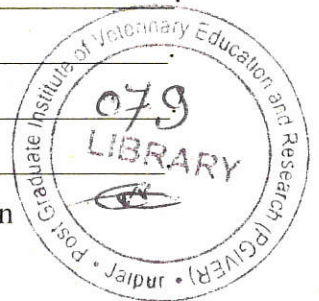
SECTION – A

Veterinary Andrology and Reproductive Techniques: VGO-511 Maximum Marks 30

Q.1 Fill in the blanks.

(18x0.25 = 4.5)

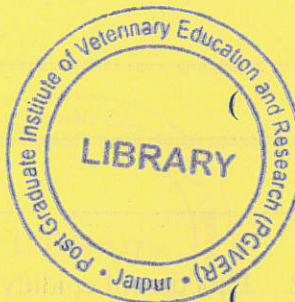
- 1.1 In male, Leydig's cell produce _____ hormone.
- 1.2 Age of puberty in horse is _____.
- 1.3 Cremaster muscle helps in _____.
- 1.4 _____ contain testes and provide 2-4°C lower temperature than body.
- 1.5 Sertoli cells produce _____.
- 1.6 Opening of vas deferens in pelvic urethra is known as _____.
- 1.7 Age of sexual maturity in buffalo bull is _____.
- 1.8 The portion of semen contributed by spermatozoa is known as _____.
- 1.9 Maximum concentration of glyceryl phosphoryl choline is found in _____ species.
- 1.10 Fructose is absent in the semen of _____.
- 1.11 Site of semen deposition by artificial insemination in sow is _____.
- 1.12 The average time period of spermatogenesis in cow bull _____.
- 1.13 False mounts _____ concentration of spermatozoa in ejaculate.
- 1.14 Scrotum develops from _____.
- 1.15 Time of testicular descends in male buffalo calf is _____.
- 1.16 A very good quality semen sample has progressive motility of _____.
- 1.17 Abnormal level of spermatozoa in a semen sample should be _____.
- 1.18 Deviation of penis in cow bull is known as _____.



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: (18x0.25 = 4.5)

- 2.1 TVT most commonly visible in: ()
1. Dog
2. Bull
3. Ram
4. Boar
- 2.2 Phimosis is the: ()
1. Inability to protrude penis
2. Ability to protrude penis
3. Inability to withdraw penis
4. None of the above
- 2.3 Hypospedia: ()
1. Urethra open dorsally
2. Urethra open within prepuce cavity
3. It is congenital condition
4. Both 2 & 3
- 2.4 Balanoposthitis: ()
1. Inflammation of glans
2. Inflammation of prepuce
3. Inflammation of glans penis
4. None of the above
- 2.5 Retention of testes in stallion is known as: ()
1. Rigling
2. Rig
3. Originale
4. All of the above
- 2.6 Testes descends in dog: ()
1. 12-15 days before birth
2. 12-15 days after birth
3. 2-5 days after birth
4. 2-5 days before birth
- 2.7 Testicular torsion is observed in ()
1. Cow bull
2. Buffalo bull
3. Stallion
4. Boar
- 2.8 In India, First time artificial insemination was done by: ()
1. J.D. Sampat Kumaran
2. P. Bhattacharya
3. Spllanzani
4. None of the above
- 2.9 Artificial insemination helps in: ()
1. Breeding of different size male and female
2. Breeding of bulls with physical deformities
3. Prevents transmission of venereal disease
4. All of the above

- 2.10 Frequency of semen collection in bull for freezing: ()
1. Thrice in a week
2. Twice in a week
3. Once in a week
4. None of the above
- 2.11 Method of semen collection: ()
1. Artificial Vagina
2. Electro-ejaculation
3. Massage
4. All of the above
- 2.12 Average volume of ejaculate in a buffalo bull: ()
1. 5 ml
2. 15 ml
3. 25 ml
4. 50 ml
- 2.13 Average sperm concentration per ml in stallion: ()
1. 120 million
2. 240 million
3. 360 million
4. None of the above
- 2.14 Greenish colour of the ejaculate indicates, infection of ()
1. *Psuedomonas aerugenosa*
2. *Staphylococcus aureus*
3. *Trichomonas fetus*
4. All of the above
- 2.15 Normal pH of stallion semen: ()
1. 7.4
2. 6.8
3. 5.8
4. None of the above
- 2.16 Under microscopic examination dead spermatozoa seen as: ()
1. Colour less
2. Pink coloured
3. Black coloured
4. None of the above
- 2.17 Percentage of glycerol as cryoprotectant: ()
1. 7
2. 14
3. 21
4. 28
- 2.18 Temperature of liquid nitrogen for freezing of semen straw: ()
1. -196°C
2. -79°C
3. 196°C
4. 79°C



Q.3 Attempt any eighteen out of the following twenty-four questions. Answer of each question should be in 2 to 3 lines. (18x0.5= 9)

3.1 Pumpaniform plexuses:

3.2 Function of epididymis:

3.3 High flankers:

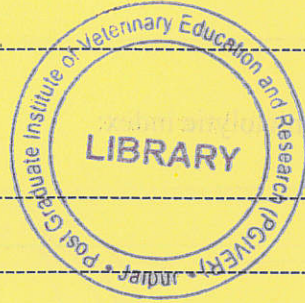
3.4 Dag defect:

3.5 Diadem defect:

3.6 Necrospemia:

3.7 Sexual maturity:

3.8 Dourine:



3.9 Balanoposthitis:

3.10 Phimosis:

3.11 Epispedia:

3.12 HOST:

3.13 CASA:

3.14 Fructolytic index:

3.15 Macroscopic examination of semen sample:

3.16 Advantage of frozen semen:

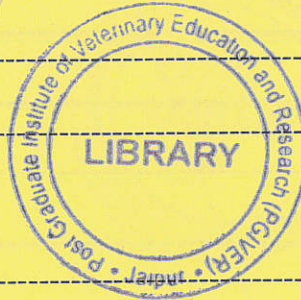
3.17 Equilibration time:

3.18 Crib biting:

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3.19 Cryoprotactants:

3.20 Sexual maturity:



3.21 Balling up:

3.22 Testicular hypoplasia:

3.23 Honeymoon Back:

3.24 Flehmen's reaction:

Q.4 Attempt any six out of the following eight questions. Answer of each question should be in 5 to 8 lines. (6x1 = 6)

4.1 Testicular degeneration:

4.2 Impotentia coeundi:

4.3 Abnormalities of spermatozoa:

4.4 Diseases of accessory sex glands:



4.5 Properties of a good extender:

4.6 Enlist the components of sexual behaviour:

4.7 Methods of semen collection:

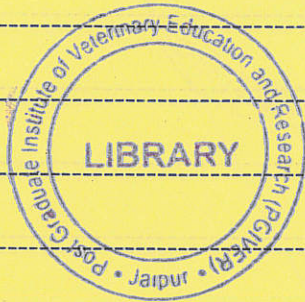
4.8 Vitrification:

Q.5 Answer the following question in 1-2 pages (attempt any two). (2x3 = 6)

- 5.1 Write down the advantages of artificial insemination.
- 5.2 Define puberty. What are the factors affecting the age of puberty?
- 5.3 Explain difference between testicular hypoplasia and degeneration.

Please write your Roll Number above this line

Q. No.



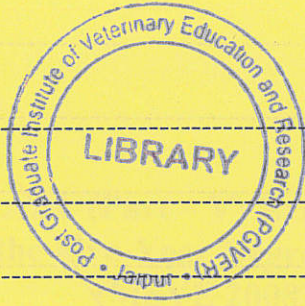
Please write your Roll Number above this line

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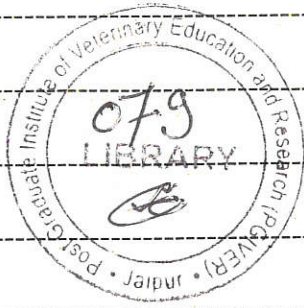
Do not write across this line

Please write your Roll Number above this line

Q. No.



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A series of horizontal dashed lines for writing, spanning the width of the page.

Donot write across this line