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Total Number of Pages 16

B.V.Sc. & A.H. (Fourth Professional) Examination – 2023

Veterinary Gynaecology and Obstetrics Paper-I

(MSVE 2016)

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

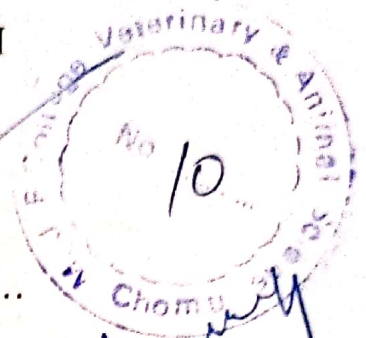
Marks to be filled by the examiner:

Section A	
Q. No.	Marks
1.	
2.	
3.	
4.	
5.	
Total	

Total Marks obtained:

In figures: In words:

Signature of examiner:



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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 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

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B.V.Sc. & A.H. (Fourth Professional) Examination – 2023
Veterinary Gynaecology and Obstetrics Paper-I

Time: Three Hours

Maximum Marks: 100
Weightage: 20

Unit-1 (Veterinary Gynaecology)

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 Anterior part of vagina which develops into pouch/pocket around the cervix is known as.....
- 1.2 Buffalo usually have..... wave estrus cycle.
- 1.3 First primary oocyte give rise to..... egg.
- 1.4 Shape of non-pregnant uterus in mare.....
- 1.5 Precursor of PGF₂alpha is
- 1.6 Lordosis is a sign of estrus in
- 1.7 Peculiar sign of estrus in sow is
- 1.8 Winking of clitoris is a typical sign of estrus in
- 1.9 Protein hormone are having receptors in
- 1.10 Steroid hormone are
- 1.11 Bean/ kidney shaped ovaries are present in
- 1.12 Corpus albicans is
- 1.13 Uterine caruncles are convex in
- 1.14 Which ovary is more active in cattle and buffalo.....
- 1.15 Cervix is poorly defined in.....
- 1.16 No sensory nerves are present in
- 1.17 Castration cells are found in

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1.18 Inhibin is produced by

1.19 Estrogen is secreted by

1.20 Species in which L.H. surge persist after ovulation

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 pH of oviductal fluid in luteal phase ()

1. Acidic
2. Alkaline
3. Neutral
4. All

2.2 Number of amino acids in interferon- tau is ()

1. 151
2. 168
3. 178
4. 198

2.3 Metestrual bleeding is characteristic of ()

1. Equine
2. Bovine
3. Swine
4. Bitch

2.4 Presence of CL can be confirmed by ()

1. Vaginal biopsy
2. Absence of estrus sign
3. Milk progesterone assay
4. All

2.5 Physiological anestrus is observed ()

1. Prepubertal animals
2. Pregnancy
3. 1 month post partum
4. All

2.6 Low land abortion or Marsh land abortion is due to ()

1. Fescue poisoning
2. Nitrate poisoning
3. Leptospirosis
4. None

2.7 Half life of oxytocin is approximately ()

1. 2-5 minute
2. 15 minute
3. 30 minute
4. none

2.8 Melatonin is synthesized in ()

1. Thymus
2. Pineal
3. Thyroid
4. None

- 2.9 Longest life span of ova is in ()
1. Bovine
2. Caprine
3. Swine
4. Canine
- 2.10 Metabolic fuel for ruminant fetus is ()
1. Glucose
2. Fructose
3. Both
4. None
- 2.11 Expulsion of dead conceptus at completion of gestation period ()
1. Premature birth
2. Abortion
3. Still birth
4. None
- 2.12 MRP in pig involve action of ()
1. Estrogen
2. Prolactin
3. Both
4. None
- 2.13 Largest clitoris is present in ()
1. Buffalo
2. Mare
3. None
4. All
- 2.14 Oxytocin is synthesized by which gland ()
1. Adenohypophysis
2. Neurohypophysis
3. Hypothalamus
4. None
- 2.15 Oxytocin induced milk let down reflex is lacking in ()
1. Sow
2. Bitch
3. Doe
4. All
- 2.16 Primary target of estrogen is ()
1. Brain
2. Skin
3. Reproductive tissue
4. None
- 2.17 Chemical nature of PGF₂α ()
1. Protein
2. Steroid
3. Lipid
4. None

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- 2.18 Receptor of PGF₂alpha present on ()
1. Large luteal cell
2. Small luteal cells
3. Both
4. None
- 2.19 Eclampsia is a metabolic disorder of ()
1. Cow
2. Bitch
3. Both
4. None
- 2.20 Pneumovagina condition more common ()
1. Cow
2. Mare
3. Sow
4. All

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 Puberty and sexual maturity.

3.2 Hereditary and congenital anomalies.

3.3 Prevention and treatment of delayed puberty.

3.4 Aberrations of oestrus and their management.

3.5 Early and delayed embryonic mortality.

3.6 Sub-estrus.

3.7 Anoestrus

3.8 Synchronization of estrus

3.9 Super ovulation

3.10 Repeat breeding.

3.11 Involution period.

3.12 Methods of pregnancy diagnosis.

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 Describe about medical termination of pregnancy

4.2 Techniques of pregnancy diagnosis.

4.3 Role of nutrition in reproduction.

4.4 Follicular dynamics and its clinical impact on fertility.

4.5 Repeat breeding in cow .

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4.6 Sub clinical endometritis in buffalo.

4.7 Insulin like growth factor.

4.8 Follicular waves.

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

5.1 Describe in detail about mechanism of implantation in bovine.

5.2 Describe in detail about anestrus in buffalo.

5.3 Describe in detail about repeat breeding in cow.

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Q. No.

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