

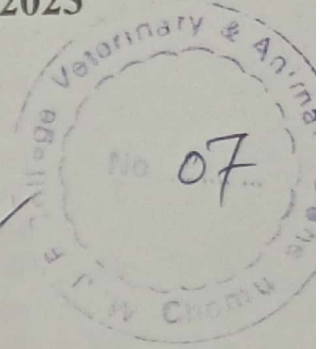
Please write your Roll Number above this line

Total Number of Pages 16

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

Veterinary Parasitology Paper -II

(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:

A handwritten signature in blue ink, likely belonging to one of the invigilators.

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

B.V.Sc. & A.H. (Third Professional) Examination – 2023
Veterinary Parasitology Paper –II
(MSVE 2016)

Time: Three Hours

Maximum Marks: 100
Weightage: 20

Unit-4 (Arthropods of Veterinary Importance)

Unit-5 (Protozoa of Veterinary Importance)

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.

(20x 0.5 = 10)

- 1.1 In protozoa, organelle involved in osmo-regulation is
- 1.2 Gliding type locomotion is seen in
- 1.3 Pathognomonic lesion 'Dollar spot' is observed in the infection caused by
- 1.4 Disease 'Oriental sore' is caused by
- 1.5 Transmission of *Histomonas meleagridis* in turkey occurs through ingestion of embryonated eggs of caecal worm
- 1.6 Wall forming granules otherwise known as present inside the macrogamete which after fertilization helps in formation of oocyst shell
- 1.7 Pathognomonic lesion 'Flask shape ulcer' in submucosal region of intestine is caused by
- 1.8 Winter coccidiosis in cattle is caused by
- 1.9 The disease "gall sickness" in cattle is caused by.....
- 1.10 "*Babesia* species are transmitted by ticks" was first demonstrated by
- 1.11 Mites lacking tracheal system, respire through
- 1.12 Chitinous covering passes through the mouth into anterior part of the alimentary canal called as
- 1.13 The exiting of an adult insect from its pupal case is termed as.....
- 1.14 Gastric myiasis in horse is caused by.....
- 1.15 The scientific name of sheep nasal fly is
- 1.16 The scientific name of red mite of poultry is

- 1.17 Ear canker in rabbit is caused by
- 1.18 The scientific name of sticktight flea is
- 1.19 The scientific name of fluff louse of poultry is
- 1.20 The scientific name of long nosed cattle louse is

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:

(20x 0.5 = 10)

- 2.1 In life cycle of *Hepatozoon canis*, gamont formation occur in ()
1. Endothelial cells of liver
 2. Blood sucking arthropods
 3. Leucocytes
 4. All of the above
- 2.2 Pigment formation does not occur in ()
1. *Leucocytozoon* spp.
 2. *Haemaphysalis* spp.
 3. *Plasmodium* spp
 4. None of the above
- 2.3 Halter shaped gametocyte inside erythrocyte occur in life cycle of ()
1. *Hepatozoon canis*
 2. *Leucocytozoon canis*
 3. *Plasmodium gallinaceum*
 4. *Haemaphysalis columbae*
- 2.4 The term phanerozoites is used for following developmental stage ()
1. Erythrocytic schizont
 2. Exoerythrocytic schizont
 3. Merozoites released from cryptozoites
 4. Merozoites released from metacryptozoites
- 2.5 Sporulation of oocyst inside host occur in case of ()
1. *Sarcocystis* spp.
 2. *Toxoplasma gondii*
 3. *Isospora* spp.
 4. *Eimeria* spp.
- 2.6 Schizogony in definitive host is absent in life cycle of ()
1. *Toxoplasma gondii*
 2. *Sarcocystis cruzi*
 3. *Eimeria tenella*
 4. *Isospora felis*
- 2.7 Female fly possess uterine milk gland for nourishing its larvae is ()
1. *Glossina palpalis*
 2. *Sarcophaga dux*
 3. *Oestrus ovis*
 4. *Hippobosca maculate*
- 2.8 Pupae resides in cone shaped cocoon in life cycle of ()
1. *Simulium indicum*
 2. *Culicoides robertsi*
 3. *Culex pipens*
 4. *Aedes aegypti*

- 2.9 The way through which *Argas persicus* transmit the disease avian spirochetosis (*Borrelia anserina*) ()
1. Biting of poultry
 2. Through faeces
 3. Both 1 and 2
 4. None of the above
- 2.10 Hexagonal basis capituli is characteristic feature of the following tick ()
1. *Haemaphysalis* spp.
 2. *Rhipicephalus* spp.
 3. *Dermacentor* spp.
 4. *Ixodes* spp
- 2.11 Non-burrowing mite is ()
1. *Sarcoptes scabiei*
 2. *Demodex canis*
 3. *Psoroptes ovis*
 4. None of the above
- 2.12 Frontal spine of genal ctenidium is shorter than the second spine in ()
1. *Ctenocephalides felis*
 2. *Ctenocephalides canis*
 3. *Xenopsylla cheopsis*
 4. *Pulex irritans*
- 2.13 Foot mange in equine is caused by ()
1. *Chorioptes bovis*
 2. *Sarcoptes sacbei*
 3. *Psoroptes equi*
 4. Both 1 and 3
- 2.14 Sulphur yellow colour dropping is an important clinical sign seen in case of disease caused by ()
1. *Trichomonas gallinae*
 2. *Tetratrichomonas gallinurum*
 3. *Histomonas meleagridis*
 4. *Hexamita meleagridis*
- 2.15 'Tear drop shaped' trophozoites are found in case of ()
1. *Giardia lamblia*
 2. *Balantidium coli*
 3. *Hexamita meleagridis*
 4. *Tritrichomonas suis*
- 2.16 Piroplasmic 'Maltese cross' cross like stage is typically found in ()
1. *Babesia taylori*
 2. *Babesia equi*
 3. *Babesia felis*
 4. Both 2 and 3
- 2.17 Ladder like lesion in duodenum is the pathognomonic lesion in infection with ()
1. *Eimeria tenella*
 2. *Eimeria maxima*
 3. *Eimeria acervulina*
 4. *Eimeria necatrix*

- 2.18 Mucus agglutination test is performed for ()
1. *Histomonas meleagridis*
2. *Trichomonas vaginalis*
3. *Tritrichomonas foetus*
4. *Trichomonas gallinae*
- 2.19 The exact localization site of *Cryptosporidium parvum* is defined as ()
1. Extracellular intracytoplasmic
2. Intracellular extracytoplasmic
3. Intacellular intracytoplasmic
4. Extracellular extracytoplasmic
- 2.20 Vaccine CoxAbic developed against coccidiosis is ()
1. Non-living coccidiosis vaccine
2. Live attenuated vaccine
3. Recombinant vaccine
4. None of the above

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 Preimmunity

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3.2 Endodyogeny

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3.3 Trypomastigote stage

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3.4 Salivarian trypanosome

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3.5 PKADL

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3.6 Stilbamidine test

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3.7 Coarctate pupa

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3.8 Queensland itch

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3.9 Sheep ked

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3.10 Two host tick

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3.11 Seed ticks.

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3.12 Licked beef condition.

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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 = 36)

4.1 General mouth part of insect

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.....

4.2 Distinguishing morphological characteristics between Anopheline and culicine mosquitoes

4.3 Strike

4.4 Morphological differences between soft tick and hard tick

4.5 Differences between Bacteria and Rickettsia

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4.6 Intestinal coccidiosis

4.7 Equine protozoal myeloencephalitis (EPM).

4.8 Life-cycle of *Babesia equi*.

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

- 5.1 Write down the life cycle of parasite causing caecal coccidiosis in poultry with its pathogenesis.
- 5.2 Write down the life cycle of *Theileria annulata* in vertebrate host with its pathogenesis, clinical signs, diagnosis, and treatment.
- 5.3 Write down the life cycle of *Sarcoptes scabiei* with its pathogenesis, clinical sign and symptom, treatment and control

4.8 Life-cycle of *Babesia equi*.

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

- 5.1 Write down the life cycle of parasite causing caecal coccidiosis in poultry with its pathogenesis.
- 5.2 Write down the life cycle of *Theileria annulata* in vertebrate host with its pathogenesis, clinical signs, diagnosis, and treatment.
- 5.3 Write down the life cycle of *Sarcoptes scabiei* with its pathogenesis, clinical sign and symptom, treatment and control