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- (d) Black Quarter 4. Hemolytic anemia
- (e) Blue Tongue Disease 5. Pasteurella multocida
- (f) Hemorrhagic 6. T. annulata
Septicemia
- (b) Why is understanding animal diseases critical for
public health and safety? (4)
- (c) Name the vectors responsible for the transmission
of the following animal diseases: (2)
- (i) Blue tongue Disease
- (ii) Babesiosis
6. Discuss the types of microorganisms present in the
cattle rumen, emphasizing their importance and
functions. (4+8=12)

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5111

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Unique Paper Code : 2534001003

Name of the Paper : Microbes in Animal Health

Name of the Course : B.Sc. (Hons.) Microbiology

Semester : VI, PART III, (UGCF-2022)

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll. No. on the top immediately on receipt
of this question paper.
 2. Attempt **any five** questions.
 3. All questions carry **equal** marks.
 4. Attempt all parts of a single question **together**.
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1. (a) Give the causative agent for the following animal
diseases (**any five**). (5)

(i) Johne's Disease

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- (ii) Canine distemper
 - (iii) Avian influenza
 - (iv) Mucormycosis
 - (v) Trypanosomiasis
 - (vi) Rinderpest
- (b) Define ruminants and illustrate a well-labeled diagram of the ruminant stomach structure. (5)
- (c) What is the optimum pH range for rumen fluid, and why is it critical for effective digestion in ruminants? (2)
2. (a) What constitutes livestock, and in what ways do they differ from pets? What is the significance of both in human society? (4+4)
- (b) Enlist the general strategies for animal disease prevention. (4)
3. Name the aetiological agents of the following animal diseases, describe the associated symptoms, transmission routes, along with control measures (*any two*): (6x2=12)
- (i) Anthrax

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- (ii) Mastitis
 - (iii) Rabies
4. Enlist the clinical symptoms for the following animal disease (*any four*): (3x4=12)
- (i) Campylobacteriosis
 - (ii) Aspergillosis
 - (iii) FMD
 - (iv) Brucellosis
 - (v) Rinderpest
5. Match the disease with its causative pathogen/symptoms: (6)
- | | |
|--------------------------------------|---|
| (a) Peste des Petits Ruminants (PPR) | 1. Clostridium chauvoei |
| (b) Theileriosis | 2. Swelling of the face and tongue lesions |
| (c) Babesiosis | 3. Fever, nasal discharge, and oral lesions |

P.T.O.