

Reg. No.: .....

Name: .....



**University of Kerala**

Third Semester FYUGP Degree Examination, November 2025

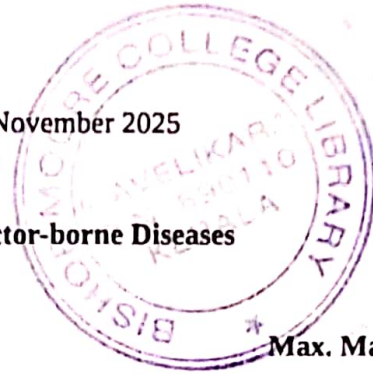
Discipline Specific Core Course

**ZOOLOGY**

**UK3DSCZOO205 - Human Parasitology and Vector-borne Diseases**

Academic Level: 200-299

2024 Admission



W6030

**Time: 1 Hour 30 Minutes(90 Mins.)**

**Max. Marks: 42**

**Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions**

| Qn No. | Question                                                                                                                                                                                                                                                                                                                                                             | CL | CO |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 1      | Direct life cycle of a parasite means:<br><br>Options :<br>A)Involves only a single host<br>B)Requires an intermediate host<br>C)Transmitted through vectors<br>D)Involves multiple hosts                                                                                                                                                                            | RE | 2  |
| 2      | Wuchereria bancrofti is transmitted by which vector.<br><br>Options :<br>A)Sandfly<br>B)Housefly<br>C)Mosquito<br>D)Tsetse fly                                                                                                                                                                                                                                       | RE | 2  |
| 3      | Interpret the difference between mechanical and biological vectors.<br><br>Options :<br>A)Mechanical vectors multiply parasites; biological vectors just carry them<br>B)Biological vectors allow parasite development; mechanical vectors only carry parasites passively<br>C)Both only transmit by passive contact<br>D)Both destroy parasites before transmission | UN | 1  |
| 4      | Which environmental factor is most directly associated with the transmission of waterborne parasitic diseases such as schistosomiasis?<br><br>Options :<br>A)Air temperature<br>B)Deforestation                                                                                                                                                                      | UN | 5  |

| Qn No. | Question                                                                                                                                                                                                  | CL | CO |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|        | C) Inadequate sanitation<br>D) Elevation                                                                                                                                                                  |    |    |
| 5      | Name the primary vector responsible for transmitting Lyme disease to humans?<br><br>Options :<br>A) Aedes mosquito<br>B) Anopheles mosquito<br>C) Ixodes tick<br>D) Culex mosquito                        | UN | 4  |
| 6      | Parasites which primarily infect animals other than humans are called<br><br>Options :<br>A) Zoophilic parasites<br>B) Anthropophilic parasites<br>C) Ectoparasite parasites<br>D) Endoparasite parasites | UN | 1  |

**Part B.8 Marks. Time: 24 Minutes. (Cognitive Level: Understand(UN)/Apply(AP)) Short Answer. 2 marks each. Answer all questions**

| Qn No.            | Question                                                                                                                                                                                                                                                                                                                   | CL | CO |                |                             |                 |                                 |              |             |                   |          |    |   |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----------------|-----------------------------|-----------------|---------------------------------|--------------|-------------|-------------------|----------|----|---|
| 7                 | Compare and contrast how the clinical manifestations differ between <i>Ascaris</i> and <i>Wuchereria</i> infections.                                                                                                                                                                                                       | UN | 3  |                |                             |                 |                                 |              |             |                   |          |    |   |
| 8                 | <p>Match the following</p> <table><tr><th>A</th><th>B</th></tr><tr><td>a. Monogenetic</td><td>1. <i>Fasciola hepatica</i></td></tr><tr><td>b. Ectoparasite</td><td>2. <i>Entamoeba histolytica</i></td></tr><tr><td>c. Digenetic</td><td>3. Mosquito</td></tr><tr><td>d. Anthropophilic</td><td>4. Ticks</td></tr></table> | A  | B  | a. Monogenetic | 1. <i>Fasciola hepatica</i> | b. Ectoparasite | 2. <i>Entamoeba histolytica</i> | c. Digenetic | 3. Mosquito | d. Anthropophilic | 4. Ticks | UN | 1 |
| A                 | B                                                                                                                                                                                                                                                                                                                          |    |    |                |                             |                 |                                 |              |             |                   |          |    |   |
| a. Monogenetic    | 1. <i>Fasciola hepatica</i>                                                                                                                                                                                                                                                                                                |    |    |                |                             |                 |                                 |              |             |                   |          |    |   |
| b. Ectoparasite   | 2. <i>Entamoeba histolytica</i>                                                                                                                                                                                                                                                                                            |    |    |                |                             |                 |                                 |              |             |                   |          |    |   |
| c. Digenetic      | 3. Mosquito                                                                                                                                                                                                                                                                                                                |    |    |                |                             |                 |                                 |              |             |                   |          |    |   |
| d. Anthropophilic | 4. Ticks                                                                                                                                                                                                                                                                                                                   |    |    |                |                             |                 |                                 |              |             |                   |          |    |   |
| 9                 | How does Zika virus infection affect unborn babies during pregnancy?                                                                                                                                                                                                                                                       | AP | 4  |                |                             |                 |                                 |              |             |                   |          |    |   |
| 10                | Illustrate the mode of transmission of <i>Entamoeba histolytica</i> .                                                                                                                                                                                                                                                      | AP | 2  |                |                             |                 |                                 |              |             |                   |          |    |   |

**Part C. 28 Marks. Time: 60 Minutes (Cognitive Level: Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer. 7 marks each. Answer all 4 Questions choosing among options \* within each question**

| Qn No. | Question                                                                                                                                                                                                                              | CL | CO   |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| 11     | <p>A)</p> <p>Write an account on different modes of disease transmission.</p> <p>OR</p> <p>B)</p> <p>Explain the morphological features and taxonomic classification of <i>Plasmodium vivax</i> and <i>Entamoeba histolytica</i>.</p> | AP | 2, 2 |

| Qn No. | Question                                                                                                                                                                                                                     | CL | CO   |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| 12     | <p>A)<br/>Explain zoophilic and anthropophilic parasites in terms of host preference, disease transmission, and public health significance.</p> <p>OR</p> <p>B)<br/>Describe different types of parasites with examples.</p> | AN | 1, 1 |
| 13     | <p>A)<br/>Evaluate the parasitic adaptations, life cycles, and pathogenesis of <i>Taenia solium</i></p> <p>OR</p> <p>B)<br/>Evaluate the pathogenesis, clinical manifestations and prophylaxis of <i>Filariasis</i></p>      | EV | 3, 3 |
| 14     | <p>A)<br/>Propose an integrated vector management plan to control malaria in an endemic area.</p> <p>OR</p> <p>B)<br/>Prepare a comparison of the vector control strategies used to prevent Rat fever and Lyme disease.</p>  | CR | 4, 4 |