

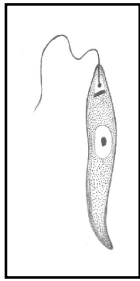
**PG CBCS**  
**M.SC. Semester-II Examination, 2021**  
**ZOOLOGY**  
 PAPER: ZOO 296  
**(PRACTICAL)**

**Full Marks: 50****Time: 3 Hours**

*Candidates are required to give their answers in their own words as far as practicable.*

**Answer any two questions of the following**

1. Place the following parasites in proper systematic position and write down their identifying characters 6+6+6+7



A



B



C



D

2. Write down the procedure of smear preparation and staining of gut content of a living specimen (Vertebrate/Invertebrate) for identification of protozoan parasite(s). Write the composition and preparation procedure of Schaudinn's fixative, Ringer's solution and Delafield's haematoxylin stain. 13+12
3. Write the principle, procedure and application of Agarose Gel Electrophoresis. Describe the procedure for isolation and purification of DNA from animal tissue. 15+10
4. i. Write the procedure of blood film staining for identification of protozoan parasites in pigeon.

**(P.T.O.)**

(2)

ii. Mention the medical significance of the following:

a. *Culex sp*

b. *Pediculus sp*

c. *Plasmodium sp*

d. *Aedes sp*

e. *Phlebotomus sp*

10+15

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