

2018

CBCS

1st Semester

ZOOLOGY

PAPER—GE1P

(Honours)

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Attempt the following questions according to direction.

Answer all questions.

1. Identify the given instruments. Write down the working principle of those two instruments. (1+2)+(1+2)
2. List the ingredients used in Bacterial culture media. Write down the procedure of Bacterial culture media preparation. Prepare a sample media using given chemical. 2+2+2

3. Write down the sterilization methods of glass and plastic wares for cell culture. 3
 4. Laboratory Note Book 2
 5. Viva-Voce 3
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2018**CBCS****1st Semester****ZOOLOGY****PAPER—GE1P****(Honours)****(Practical)***Full Marks : 20**Time : 2 Hours****Instruction for the Examiners***

1. Specimen 'A'-Bacterial suspension Algae/Fungi should be supplied to all students of a batch.
 - (a) Bacterial suspension : Any bacterial broth or curd to be supplied.
 - (b) ALGAL SPECIMENS FOR Q.1 (Sample A)
 - Oedogonium spp.*—with sex organ.
 - Vaucheria spp.*—Vegetative with reproduction structures.
 - Polysiphornia spp.*—Thallus with Cystocarp/
Tetrasporangia.

(Turn Over)

(c) FUNGI SPECIMENS for Q.1 (Sample A)

Rhizopus spp.—Thallus with Sporangia and Zygosporangia

Agaricus spp.—Mature basidiocarp.

2. For each batch of candidates ____ two specimen(B) with vegetative/reproductive structures should be selected and supplied alternatively.

BRYOPHYTES, PTERIDOPHYTES & GYMNOSPERMS

For Q. 1 (Specimens 'B')

- (a) *Marchantia* spp.: Thellus with antheridiophore/
archegoniophore (LS)

Funaria spp. : Thellus with capsule (LS)

- (b) *Selaginella* spp.: L.S. of Strobilus

Equisetum spp. : L.S. of Strobilus

Pteris spp. : T.S. of sporophyll

Cycas : T.S. of leaflet ; microsporophyte

Pinus : T.S. of needle

3. Specimen 'C', 'D' and 'E' should be given from the following items :

(N.B.: not more than one from any group)

(C) *Virus and Bacteria* (Photographs)