

2016

M.Sc. Part-I Examination

ZOOLOGY

PAPER—II (Group—A)

Full Marks : 50

Time : 2 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

Group—A

Answer any *four* questions taking *two* from each unit.

Unit—I

[Cytogenetics]

1. (i) Bacteriophage P²² was used to perform three factor cross in *Salmonella* between Arg⁻ Leu⁻ His⁻ recipient bacterium and bacteriophage P²² grown on an Arg⁺Leu⁺ His⁺ strain. 1000 Arg⁺ transductants were selected and tested them on several selective media. By replicating the following results were obtained.

(Turn Over)

