

EASTERN UNIVERSITY, SRI LANKA
FIRST YEAR IN SCIENCE 2015/2016 (APR/MAY 2018)
SECOND SEMESTER
ZL 103 GENETICS

Time:01 hour.

Answer all questions.

(Illustrate your answers with clear labelled diagrams where necessary)

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1. Write short notes on the following:

- a). Test cross and its significance; (30 marks)
- b). Sex-linked recessive characteristics; (20 marks)
- c). Plasmid and its significance; (20 marks)
- d). Second division segregation in ascospores formation. (30 marks)

2. Answer **any two** of the questions.

- a). Describe mapping of human genome by mouse somatic cell fusion technique. (50 marks)
- b).” Replica plating is one of the methods for screening of auxotrophic mutations “ Discuss. (50 marks)
- c). Oncogene and the formation of malignant tumors. (50 marks)

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