

EASTERN UNIVERSITY, SRI LANKA
FIRST YEAR FIRST SEMESTER EXAMINATION IN SCIENCE 2015/2016
(JULY/AUGUST 2017)

PRACTICAL EXAMINATION

ZL 151- CELL BIOLOGY

Time: **03** hours.

Answer **all** Questions.

1. Identify and answer the questions along with the specimens **A, B, C,D,E,F,G,H,I and J**

25marks

2. Comment on briefly **P, Q, R, S, and T.**

20marks

3. A pale colour mixture "**M**" in a test tube was given to study biochemical property of compounds in the mixture. When a little amount of mixture "**M**" was treated with NaOH and thereafter treated with CuSO₄ drop wise, purple colour was observed whereas the same compound containing another test tube was treated with few drops of Con HNO₃ yellow colour was observed. It was also observed reddish precipitate when the same compound "**M**" was treated with Con H₂ SO₄ and addition of a drop of Fehlings/Benedicts solution. Identify the bio-organic compounds in "**M**" and describe the structure and the characteristics of compound.

20 marks

4. A specimen "**W**" was provided to observe the cell division by making a temporary slide. Name the stages of the cell division you observed and explain them by annotated drawings only. (Slides will be assessed on the spot)

15 marks

5. Identify the experimental set up "**X**" and "**Y**" and Comment on the Biochemistry in them.

20 marks

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