

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
**(For candidates admitted during the academic year 2008– 09 & thereafter)**

**SUBJECT CODE: BT/MC/P553**

**B. Sc. PRACTICAL EXAMINATION, NOVEMBER 2010**  
**BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**  
**FIFTH SEMESTER**

**COURSE : MAJOR – CORE**  
**PAPER : CELL BIOLOGY, MICROBIOLOGY, ECOLOGY AND**  
**ENVIRONMENTAL BIOTECHNOLOGY - PRACTICAL**  
**TIME : 3 HRS** **MAX.MARKS:50**

1. Prepare a squash **A**. Identify any two stages. Draw labelled sketches. Leave the slide for valuation. (7 marks)
2. Prepare a  $10^{-4}$  dilution of given sample **B** Inoculate the same using any one of the following method – Pour plate / Streak / Slant / Stab (7 marks)
3. Prepare a gram stain of the given culture '**C**'. Write the procedure and record your results. (7 marks)
4. Find out frequency percentage / Density / Abundance of the plant population in the plotted graph **D**. (7 marks)
5. Identify the probable habitat of **E** mentioning the ecological adaptation (Morphology and Anatomy) (7 marks)
6. Writes critical notes on **F, G & H** (3 x 5 = 15 marks)

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