DMM-3111
Second Year B. Sc. (Sem. IV) Examination
March / April - 2016
Electronics : Generic Elective
(Circuit Simulation)

Time : 2 Hours] [Total Marks : 50

Instructions:
(1) Fill up strictly the details of signs on your answer book.
(2) Figure on the right indicates full marks.
(3) All symbols and abbreviations have their usual meaning.
(4) Non-programmable calculators are allowed.
(5) Q. 1 is compulsory.
(6) Assume data if necessary.

1 Answer in brief:
(1) Define the following:
(a) Grid
(b) Pspice
(c) Attributes
(d) Work Space

2 (a) What is the meaning of symbol library? How a symbol is placed on the schematic page? Explain the meaning of part value.
(b) Discuss different types of libraries that schematics can recognize?

OR

DMM-3111] [Contd...
2  (a) Explain AC sweep and noise.  
   (b) Define:
       (a) Solder mask
       (b) Pins and vias.

3  (a) What are the main functions of Microsim schematics?
    Explain the basic drawing features for drawing a schematic.
    (b) How can you change reference designators and part values?

   OR

3  (a) How will you do drawing and labeling wires in Microsim schematics?
    (b) Write the steps for placing and labeling the port.

4  (a) What are the different ways to create and edit model?
    (b) What is the method of placing a power ground in the circuit?

   OR

4  (a) Using stimulus editor show how you will make a study of PN junction diode characteristics.
    (b) Describe the method of creating schematic diagram of Kirchoff’s current law circuit and simulate it.