(Following Paper ID and Roll No. to be filled in your Answer Books)		
PAPER ID :	**Roll No**.	

M.C.A.

Theory Examination (Semester-IV) 2015-16

SOFTWARE TESTING

Time : 3 Hours   *Max. Marks : 100*

Note: Make suitable assumption if necessary.

SECTION A

1: Answer all the parts: **(2X10=20)**
   (a) Differentiate between a fault and errors.
   (b) Explain the term 'software bug' using some example.
   (c) Define a flow graph with an example.
   (d) What is the purpose of state graph? Give example.
   (e) What do you understand by path expression?
   (f) What is the significance of testing? Explain.
   (g) Explain state behavior in testing.
   (h) Explain the term one dimensional testing.
   (i) What is software testing life cycle?
   (j) Write application of path testing.

SECTION B

2: Answer any five parts: **(5X10=50)**
a)   How testing is different from debugging? Explain. Also give various software test metrics.
b)   Differentiate between software verification, validation and testing with suitable example.
c)   What is data flow testing? Discuss the strategies in dataflow testing.
d)   Discuss the various steps in transaction flow testing techniques.
e)   What do you understand by logic based testing? Discuss a logic based testing method with suitable example.
f)   Discuss the methodology for selection of test cases for acceptance testing.
g)   Write short notes on cyclomatic complexity with example.
h)   Describe the various functional systems testing in detail using an appropriate example.

SECTION C

Answer any two questions from this section: **(15X2=30)**
3. Discuss the graph matrices and its application in software testing with the help of an example.
4. What do you mean by domain testing? Describe the steps in the domain testing with some example.
5. Write notes on any three of the following:
   (a) Model of testing.
   (b) KV charts.
   (c) Test tools selection.
   (d) Software testability.
   (e) Application software testing methodology.