

**M. SC. (COMPUTER SCIENCE) SEM – II (CHOICE BASED  
CREDIT & GRADE SYSTEM) : WINTER - 2017**

**SUBJECT: ELECTIVE: a) SOFTWARE TESTING**

Day: Monday  
Date: 30/10/2017

Time: 03.00 PM TO 06.00 PM  
Max. Marks: 60

**W-2017-0825**

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
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**Q.1** What is software Testing? Explain Black box and white box testing. **[15]**

**OR**

Describe the following testing types :

- i) Flow Testing
- ii) Path Testing
- iii) Syntax Testing
- iv) Configuration Testing
- v) Usability Testing

**Q.2** A) Answer any **ONE** of the following: **[08]**

- i) Illustrate the verification and validation testing.
- ii) Explain software tester career in detail.

**B)** Answer any **ONE** of the following **[07]**

- i) Explain the concept of cost of bugs with example.
- ii) Write a note on Test Procedures.

**Q.3** Answer any **THREE** of the following: **[15]**

- a) Describe waterfall and spiral model.
- b) Write a note on Testing documentation.
- c) Illustrate the software quality assurance.
- d) Explain the concept of beta Testing.
- e) Explain how to manage test technology.

**Q.4** Write short notes on any **THREE** of the following: **[15]**

- a) Test security
- b) Workbench
- c) Measurement Metrics and Recommendations
- d) Issues in code testing
- e) Test case Planning