

Day : Monday  
Date : 30/04/2018

S-2018-1761

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

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**N.B.:**

- 1) Attempt any **FOUR** questions from Section-I.
  - 2) Attempt any **TWO** questions from Section-II.
  - 3) Answer to both sections should be written in **SEPARATE** answer sheets.
  - 4) Figures to the right indicate **FULL** marks.
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**SECTION-I**

- Q.1** a) Define the term 'Testing'. Why testing is necessary? Explain goals of testing. (07)
- b) Explain System Testing in detail. (08)
- Q.2** a) Explain various techniques of verification. (07)
- b) Explain debugging process in detail. (08)
- Q.3** What are various types of risks? Explain role of the testing in the risk Management. (15)
- Q.4** Explain Control Structure Testing in detail. (15)
- Q.5** a) Explain various phases of Software Testing Process. (07)
- b) Explain 'Flow Graph Notation'. (08)
- Q.6** a) Explain 'Top-Down' and 'Bottom-Up' approach of Integration Testing. (07)
- b) Explain Alpha and Beta testing. (08)
- Q.7** Write short notes on-
- a) Unit testing (07)
- b) Testing of client/ server architecture (08)

**SECTION-II**

- Q.8** a) Differentiate between White-Box and Black-Box testing. Explain various methods of Black-Box testing. (20)
- Q.9** What is Real Time System? Explain testing for real time system. (20)
- Q.10** What is 'Testing pattern'? Explain various testing patterns in detail. (20)

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