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**MANIPAL INSTITUTE OF TECHNOLOGY**  
**MANIPAL**

*A Constituent Institution of Manipal University*

**III SEMESTER MCA MAKE-UP EXAMINATION**

**DECEMBER 2017**

**SUBJECT: QUALITY ASSURANCE AND TESTING [MCA 5103]**

**REVISED CREDIT SYSTEM**

**( 23 /12/2017)**

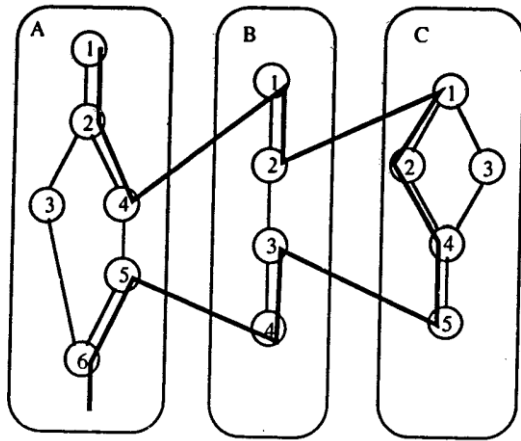
Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

- ❖ Answer **ALL FIVE FULL** questions.
- ❖ Missing data may be suitable assumed.

<b>1A.</b>	Write the pseudocode for the triangle problem. Extend the triangle problem to include right angle feature.	<b>5</b>
<b>1B.</b>	Explain SRET process model with suitable diagram.	<b>3</b>
<b>1C.</b>	With a neat diagram explain the relationship among basis constructs.	<b>2</b>
<b>2A.</b>	Give the format of Test Specification Document.	<b>5</b>
<b>2B.</b>	Explain the currency converter problem with the help of a neat diagram.	<b>3</b>
<b>2C.</b>	Define Incident and Test.	<b>2</b>
<b>3A.</b>	Discuss Event Based Thread Testing and Port Based Thread Testing.	<b>5</b>
<b>3B.</b>	Differentiate between verification and validation.	<b>3</b>
<b>3C.</b>	Give a brief explanation of random testing.	<b>2</b>
<b>4A.</b>	Describe the alternative life cycle models for water fall model.	<b>5</b>
<b>4B.</b>	What are the three types of risks associated with a project? What are the safety measures for reducing the impact of these risks?	<b>3</b>
<b>4C.</b>	Define <ul style="list-style-type: none"> <li>a) Source Node</li> <li>b) Sink Node</li> </ul>	<b>2</b>
<b>5A.</b>	Discuss various methods of Call Graph based integration testing with suitable example.	<b>5</b>
<b>5B.</b>	Find the Module Execution Path and Module to Module Path in the figure given below.	<b>3</b>



**5C.**

Explain the structure of a Test Case.

**2**