Printed Pages: 3 NCS - 071

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

Paper ID : 2289942 Roll No. | | | | | | | | | |

B.TECH.

Regular Theory Examination (Odd Sem-VII), 2016-17

SOFTWARE TESTING & AUDIT

Time : 3 Hours *Max. Marks : 100*

SECTION -A

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)

a) What is the difference between Alpha Testing and Beta Testing?

b) What is the need of Software Validation after a change?

c) What is software testing?

d) When is used Decision table testing?

e) What is the difference between Testing Techniques and Testing Tools?

f) What is the difference between QA and testing?

g) How can you do black box testing of a database?

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h) What is website testing?

i) What are the phases of formal review?

j) What is the difference between software testing and debugging?

SECTION - B

2. Attempt any five questions from this section **(5×10=50)**

a) How object oriented testing is different from procedural testing?

b) How do you measure software quality? Discuss correctness versus reliability pertaining to programs.

c) Explain the various data flow testing criteria.

d) What is regression testing? Differentiate between regression and development testing?

e) Write short notes on the following:

i) System testing

ii) Acceptance testing

iii) Integration testing

iv) Mutation testing.

f) What is structural (code based) testing? Why do we use white box testing, when black box testing is used to test conformance to requirements?

g) How reusability features can be exploited by object-oriented testing approach?

h) Explain Cyclomatic complexity, its properties and meaning in tabular form.

SECTION - C

Note : Attempt any two questions from this section. **(2×15=30)**

3. What are the categories to evaluate regression test selection techniques? Why do we use such categorization?

4. What is the difference between equivalence partitioning and boundary value analysis methods?

5. Write short note on the following:

a) Cause-effect graphing Technique.

b) Test comparators

c) Code Walk through and Inspection.

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