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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
EXAMINATION : APRIL – MAY 2015
FOURTH SEMESTER
Sub : Software Testing ( BCA-424)

Date : 15/05/2015  Total Marks :  80  Time: 2.00 pm to 5.00 pm

Instructions:
1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagrams wherever necessary.

Q.1. A) Fill in the blanks. (Solve any 5) (5)
1. Plan, Do, Check and Act are steps to determine _______________.
2. Ideal value of Defect Removal Efficiency (DRE) should be _____ which means no defects found.
3. Hardware faults are mostly physical faults and software faults are _______________.
4. __________ is a process that makes it sure that the software product is developed in the right way.
5. In Top Down integration testing __________ are used.
6. In Bottom Up integration testing __________ are used
7. The ____________ tools are designed to assist the testing process.

B) State True/False. (Solve any 5)  (5)
1. Web applications can typically cater to a large and diverse audience.
2. In Acceptance Testing the tester has to literally think like the client.
3. Static analysis is done by examining the code with executing the program.
4. Performance testing validates and verifies resource usage.
5. The alpha test is conducted at the User’s site.
6. Quality control is a pillar of Software Quality Assurance.
7. Software Engineers are not involved in SQA.

C) Answer the following. (Solve any 5) (10)
1. List out renowned SQA tools.
2. What are the contents of SQA Plan ?
3. Mention the organizations involved in SQA standards.
5. Explain Performance Testing with it’s types.
6. Define Unit testing.
7. List out Static testing techniques.

Q. 2. Answer the following in detail. (Solve any 6) (30)
1. Explain Software Inspection Process
3. What is security testing? Explain security testing measures.
4. Explain main phases of formal reviews in static testing techniques.
5. Explain factors of software quality.
6. Differentiate between Black Box Testing and White Box Testing
7. Write a note on CAST tools

Q. 3. Answer the following in detail. (30)
1. Describe software testing life cycle.
2. Explain five stages in six sigma approach.
3. Explain Validation and Verification in detail along with processes involved in it.