SUBJECT CODE: 11CS/MC/ST54

B.C.A. DEGREE EXAMINATION – NOVEMBER 2015
FIFTH SEMESTER

REG. NO. _____

COURSE   : MAJOR CORE
PAPER   : SOFTWARE TESTING
TIME   : 30 MINUTES   **MAX. MARKS: 20**

SECTION – A
ANSWER ON THE QUESTION PAPER ITSELF

<u>Answer all the questions</u>   **(20 * 1 = 20)**
<u>Fill in the blanks:</u>

1. _____ is the process of evaluating a software system or component during the development cycle.

2. _____ is a mistake, misconception or misunderstanding on the part of software developer.

3. _____ partitioning results in partitioning of the input domain of software under test.

4. A _____ is the smallest possible testable software component.

5. _____ is a condition that must be true when a software component completes its operation properly.

6. _____ is a sequence of control flow nodes from entry node to exit node.

7. _____ are tangible events that occur at a certain time in a project lifetime.

8. A metric stands for _____.

9. The use of defect analysis is to _____.

10. The measurements of TMM level 1 are _____, _____ and

_____.

Choose the best answer:

11. The role of software Quality Assurance group is to _____.

    (a) review   (b) ensure software meets the technical requirements
    (c) ensure delivery on time   (d) debugging

12. _____ testing is used for accepting the customer requirements.

    (a) unit   (b) integration   (c) system   (d) acceptance

13. When a test fails, the nature of the problem will be recorded in _____.

    (a) worksheet   (b) test incident report   (c) design report   (d) fault report

14. Recovery Test is a type of _____ test.

    (a) unit   (b) integration   (c) system   (d) acceptance

15. _____ may be described as distinguishing characteristics of a software component or system.

    (a) feature   (b) function   (c) design   (d) requirements

16. The programs P and Q is said to be equivalent and T is adequate for P but not for Q. This is _____.

    (a) applicability property   (b) monotonicity property
    (c) inadequate empty set property   (d) antiextensionality property

17. _____ testing is used to detect the defects that occur on interfacing of units.

    (a) unit   (b) integration   (c) system   (d) acceptance

18. _____ is a group meeting whose purpose is to evaluate a software artifact.

    (a) recovery   (b) review   (c) milestone   (d) inspection

19. _____ is a type of review.

    (a) walkthrough   (b) milestone   (c) acceptance   (d) managerial

20. Measurement is an act of:

    (a) metric   (b) quality attribute   (c) measuring   (d) requirement

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COURSE   : MAJOR CORE
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TIME   : 2 HOURS & 30 MINUTES   **MAX. MARKS: 80**

SECTION B

<u>**Answer ALL the questions**</u>   **(5 * 2 = 10)**

1. What is fault?

2. What is Security testing?

3. What are the basic testing strategies?

4. What is review?

5. What is test harness?

SECTION C

<u>**Answer any EIGHT of the following**</u>   **(8 * 5 = 40)**

6. Give the Software testing principles.

7. Write a brief note on verification and validation.

8. Explain the difference between Top-Down and Bottom-Up approach.

9. Write a note on Alpha and Beta testing.

10. Explain defect prevention.

11. Explain Coding Defects.

12. What are components of review plan?

13. What are measurements for monitoring testing status?

14. Write a note on reporting tools.

15. Write a brief note on code coverage.

SECTION D

<u>**Answer any three of the following**</u>   **(3 * 10 = 30)**

16. Explain the levels of Testing.

17. Explain in detail Black Box Testing.

18. Give the Components of test plan.

19. Describe the levels of TMM.

20. Explain automation tools.

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