Reg. No. : ....

Name : ....

Sixth Semester B.C.A. Degree Examination, April 2019

Career Related FDP under CBCSS

Group 2(b) : COMPUTER APPLICATIONS

Elective Course

CP 1661.3

Software Testing

(2014 Admission onwards)

Time : 3 Hours   Max. Marks : 80

SECTION – A

Very Short Answer Type.

One word to maximum of **one** sentence. Answer **all** questions.

1. Define graph in software testing.

2. What is the speciality of nice domain boundary?

3. Define walkthrough.

4. What do you mean by a link marker?

5. Define the term predicate.

6. What is a complete path?

7. What is DD path?

8. What do you mean by range of a function?

9. Define the term anomaly in software testing.

10. What is unit testing?   (10 × 1 = 10 Marks)

SECTION – B

Short Answer.

Not to exceed **one** paragraph, answer **any eight** questions. **Each** question carries 2 marks.

11. What are syntax errors?

12. Explain path sensitizing.

13. Name any two domain errors.

14. What do you mean by junction in a flow graph?

15. What is regression testing?

16. Explain the limitations of path testing.

17. What is a transactional flow graph?

18. What do you mean by a test case?

19. What are ugly domains?

20. What do you mean by control flow path?

21. What is the use of a link counter?

22. What is the purpose of branch testing?   (8 × 2 = 16 Marks)

SECTION – C

Short Essay

Not to exceed **120** words, answer **any six** questions. **Each** question carries **4** marks.

23. What is flow anomaly detection problem? Explain with an example.

24. Explain logic based testing.

25. What are data bugs? How it can be solved?

26. Explain rules for path selection in transaction flow testing.

27. Explain with a diagram the model for testing.

28. What are path products?

29. What are systematic boundaries?

30. Explain transaction flow graph.

31. Explain reduction procedure algorithm.   **(6 x 4 = 24 Marks)**

SECTION – D

Long Essay.

Answer **any two** questions. **Each** question carries **15** marks.

32. Explain control flow graphs and its various elements with examples.

33. Discuss in detail the various data flow anomaly.

34. Explain in detail different types of bugs.

35. Explain use of KV Charts for single variables and two variables with diagrams.
(2 x 15 = 30 Marks)