Fifth Semester B.C.A Degree Examination
April/May - 2019
(2016-17 New Scheme)
(BCE 450) SOFTWARE ENGINEERING

Time : 3 Hours   Max. Marks : 80

I.   Answer all the following questions: **5x1=5**

1.   Define Software.

2.   Define Software process.

3.   What is effort estimation

4.   What is software Metrics

5.   White box testing is also called as _____

II.   Answer any FIVE of the following.   **5x15=75**

6.   a)   Explain Software engineering challenges.

      b)   Explain phased development process.

      c)   Write a note on software problem.   **(5+5+5)**

7.   a)   Explain components of software process.

      b)   Explain characteristics of software process.

      c)   With a neat diagram explain waterfalls model.   **(4+5+6)**

8.   a)   With a neat diagram explain prototyping model.

      b)   Explain iterative enhancement model with diagram.

      c)   Compare different process models.   **(5+5+5)**

9. a) Write a note on COCOMO model.

    b) Explain team structure in software development.

    c) Explain Risk management with its activities.   **(5+5+5)**

10. a) Explain need for SRS.

    b) Explain D.F.D with pay workers.

    c) List and explain characteristics of SRS.   **(4+6+5)**

11. a) Write a note on programming principles (any five)

    b) Explain any five programming practices to make code easier.

    c) Write a note on coding standards.   **(5+5+5)**

12. a) What is an Error, Fault and failure?

    b) Compare white box testing with Black box testing.

    c) Explain levels of testing.   **(5+5+5)**

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