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AA—55—2019

FACULTY OF SCIENCE

B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

(S6-CE5)

(Software Testing)

(Tuesday, 19-11-2019)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) Attempt all questions.

(ii) Assume suitable data, if necessary.

1. Attempt any *five* of the following : 15

- (a) What is Quality ? Explain.
- (b) Explain review reporting and record keeping.
- (c) Describe the criteria for completion of testing.
- (d) Describe the characteristics of a good test.
- (e) Discuss the errors within a webapp environment.
- (f) Discuss the measurement principles.
- (g) Explain goal oriented software measurement.

2. Attempt any *two* of the following : 10

- (a) What is software quality ? Discuss Garvin's Quality Dimensions.
- (b) Explain the Cost of Quality.
- (c) Explain ISO 9126 Quality Factors.

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3. Attempt the following (any *two*) : 10
- (a) What software quality assurance ? Explain elements of quality assurance.
 - (b) What is Software Reliability ? Explain software safety.
 - (c) Explain Formal Technical Reviews.
4. Attempt the following (any *two*) : 10
- (a) Explain the overall strategy for software testing.
 - (b) Explain Integration testing.
 - (c) Explain the system testing.
5. Attempt the following (any *two*) : 10
- (a) Explain the concept of 'Testability'.
 - (b) Explain boundary value analysis methods.
 - (c) Explain control structure testing.
6. Attempt the following (any *two*) : 10
- (a) Explain database testing.
 - (b) What is Navigation semantic unit ? Explain testing navigation semantics.
 - (c) Explain Interface testing strategy.
7. Attempt any *two* of the following : 10
- (a) Explain architecture design metrics.
 - (b) Explain metrics for object oriented testing.
 - (c) Explain class oriented metrics.