

SH-IV/Com.Sc./402/C-9/19

B.Sc. 4th Semester (Honours) Examination, 2019**COMPUTER SCIENCE****(Software Engineering)****Paper : 402/C-9****Course ID : 41512****Time: 1 Hour 15 Minutes****Full Marks: 25***The figures in the right hand side margin indicate full marks.**Candidates are required to give their answers in their own words
as far as practicable.**The figures in the right hand side margin indicate marks.**The questions are of equal value.*

1. Answer *any five* questions: 1×5=5
 - (a) Define the term software reliability.
 - (b) Write down some advantages of waterfall model.
 - (c) State various components of a software.
 - (d) Differentiate between verification and validation.
 - (e) What is process framework?
 - (f) Define software measurement.
 - (g) What is data dictionary?
 - (h) What is software prototyping?

 2. Answer *any two* questions: 5×2=10
 - (a) Explain COCOMO model with example.
 - (b) Explain spiral model in detail.
 - (c) Distinguish between 'process' and 'project' metrics with example.
 - (d) Explain how software quality is assured through software metrics.

 3. Answer *any one* questions: 10×1=10
 - (a) Why software testing is required? Differentiate between White box testing and Black box testing. 4+6=10
 - (b) What is software design? Explain objectives and principles of software design. 3+7=10
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