



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Programme 6th Semester Examination, 2022

CMAGDSE04T-COMPUTER APPLICATION (DSE2)

SOFTWARE ENGINEERING

Time Allotted: 2 Hours

Full Marks: 50

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

GROUP-A

1. Answer any **five** questions from the following: 2×5 = 10
- (a) What is software crisis?
 - (b) What is a Feasibility Study?
 - (c) Write down the disadvantages of Waterfall model.
 - (d) What do you mean by fault and failure in testing?
 - (e) What is coupling?
 - (f) What do you mean by black box testing?
 - (g) What do you mean by data dictionary?
 - (h) What do you mean by prototype model?

GROUP-B

Answer any five questions from the following 8×5 = 40

2. (a) What do you mean by UML? 3+5
- (b) What are the different views that have to be considered before the build-up of an object oriented software system?
3. (a) Write down the difference between activity and sequence diagram. 4+4
- (b) What are the challenges faced in SDLC model?
4. (a) What is requirement specification of the system? 2+4+2
- (b) What is the need for an SRS document?
- (c) Write down the advantages of prototyping model.

5. (a) Distinguish between Alpha and Beta testing. 2+3+3
(b) What are the types of Static Testing Tools?
(c) What are the steps followed in testing?
6. (a) What is the difference between verification and validation? 4+4
(b) State level 2 DFD with an example.
7. (a) Why spiral model is called meta model? 2+6
(b) Write down the advantages and disadvantages of V-model.
8. What is SDLC model? Define with a proper diagram. 2+6
9. Write short notes on (any *two*) 4×2 = 8
(a) Unit testing vs System testing
(b) Explain software productivity factors
(c) Software Quality control
(d) CASE tool.

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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