WEST BENGAL STATE UNIVERSITY

B.Sc. Programme 6th Semester Examination, 2022

CMSGDSE03T-COMPUTER SCIENCE (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.

GROUP-A

1.   Answer any *five* questions from the following: 2×5 = 10

 (a) What do you mean by a software process?

 (b) What are the major responsibilities of a software project manager?

 (c) What do you mean by software crisis?

 (d) What is data dictionary?

 (e) Define DFD.

 (f) What is regression testing?

 (g) What is cohesion?

GROUP-B

2.   Answer any *five* questions from the following: 8×5 = 40

 (a) What are the major phases of Spiral model? Explain all the phases.   2+6

 (b) What do you mean by structured programming methodology? What are the characteristics and components of SRS?   3+5

 (c) What do you mean by functional requirements? What do you mean by feasibility study? Distinguish between programs and software products.   2+2+4

 (d) Explain Norden's model in the context of staffing requirements for a software project. What is Delphi estimation?   6+2

 (e) Explain when you should use PERT charts and when you should use Gantt charts while you are performing the duties of a project manager.   4+4

 (f) Briefly explain Spiral model. Which model is best in which scenario? Make a comparison study for all the software life cycle model.   5+3

 (g) Write down the major differences between work breakdown structure and activity network model.   5+3

 (h) Explain critical path method. What do you mean by black box testing?   5+3

 (i) Write a short note on Classical Waterfall model. What are the disadvantages of Waterfall model?   5+3

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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