Exam. Code: 107206 Subject Code: 1765

Bachelor of Computer Application (BCA) 6th Semester SOFTWARE ENGINEERING

Paper—II

Time Allowed—Three Hours [Maximum Marks—75

Note: — Attempt FIVE questions. All questions carry equal marks.

- 1. (a) What are the desirable characteristics of the software process?
 - (b) Discuss the strengths and weaknesses of Iterative software development process model. 10
- 2. (a) What is Function-Point Quality Metrics? What are its different components? How it is computed? Explain.
 - (b) Consider a project with the following functional units:
 - Number of user inputs = 50
 - Number of user outputs = 40
 - Number of user enquiries = 35
 - Number of user files = 06
 - Number of external interfaces = 04

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(Contd.)

Measurement Parameter	Weighting Factor		
	Simple	Average	Complex
Number of user inputs	3	4	6
Number of user outputs	4	5	7
Number of user inquiries	3	4	6
Number of files	7	10	15
Number of external interfaces	5	7	10

Assuming all complexity adjustment factors and weighing factors as average. Calculate delivered function points for the project.

- 3. (a) What is the basic objective of problem analysis?
 How it is performed? Discuss.
 - (b) Discuss the basic components of SRS. 7
- 4. What are the major issues addressed by project planning? Explain effort estimation using COCOMO model in detail.
- 5. (a) What should be the design principles? Explain.
 - (b) Coupling and Cohesion are two modularization criteria. Discuss.
- 6. What should be the objective of Design Methodology?
 Discuss the major activities involved in Structured
 Design Methodology for developing system designs.
- 7. Discuss common coding errors using suitable examples. Explain how structured programming helps in improving code quality?
- 8. What are testing fundamentals? Discuss the concept of Functional Testing and Structural Testing in detail.

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Bachelor of Computer Application (BCA) 6th Semester COMPUTER GRAPHICS

Paper-I

Time .	Allowed—3 Hours]	[Maximum Marks—7	15
Note	:— Attempt any five que marks.	estions. All questions carry equ	al
1.	Explain the applications	s of Computer Graphics in the	ne
	entertainment Industry.		15
2.	List different display devi-	ces. Explain the working of CF	T
	monitors.	5,1	
3.	List various line drawing	algorithms. Explain Bresenham	ı's
	line drawing algorithm.		15
4.	Write the algorithm to dray	w an ellipse. Convert this algorith	ım
	to a C program.		3,7
5.	What is the significance	of transformation? Explain bas	sic
	transformation operation		10
6.	What is Projection?	What are the different types	of
72	projections? Discuss th	neir applications. 2,8	3,5
7.	Explain 3D transforms	ation with details of the mati	cix
	representations at vario	ous stages.	15
8.	List and explain graphic	cs related functions available in	ı C
	language.		15