(i)	Pr	inted Pages: 3	Roll No
(ii)	Q	uestions : 9	Sub. Code: 8 6 9 2
			Exam. Code: 1 2 2 0
PGDCA 2 nd Semester			
(2042)			
SOFTWARE ENGINEERING			
Paper: PGD-2103			
Time Allowed: Three Hours] [Maximum Marks: 60			
Note: :— There are total nine questions. Select one question from			
each section. In Section A all questions are compulsory.			
Total five questions are to be attempted.			
SECTION—A			
1.	(a)	What is data dict	ionary? 2
	(b)	Define software	isk management. 2
	(c)	Why is spiral mo	del named so ?
	(d)	Name the white	oox testing methods. 2
	(e)	What is software	project management plan? 2
	(f)	Differentiate bety	veen coupling and cohesion. 2
SECTION—B			
2.	(a)	Which SDLC models are used in large size projects?	
			rits and demerits of each and discuss
		the methods alon	g with diagrams. 8
	(b)	Explain the skills	of a software engineer. 4

- 3. (a) Explain the components and applications of software engineering.
 (b) What are software process models? Explain the software development life cycle in detail.
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 SECTION—C
- 4. What are project scheduling techniques? Explain all the project scheduling techniques with example.
- 5. (a) Discuss and compare the problem based and process based estimation.
 - (b) Define software risk. What is software risk management? Discuss the risk management activities.

SECTION-D

- 6. Write short notes on the following concepts of software design:
 - (a) Abstraction
 - (b) Information hiding
 - (c) Functional independence
 - (d) Structural partitioning.
- 7. (a) Explain the software design failures and remedies. 6
 - (b) Explain the structured analysis and structured design.

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SECTION-E

- 8. (a) Discuss the following methods of testing:(i) Basis path testing(ii) Equivalence testing
 - (iii) Boundary value testing.
 - (b) Define software maintenance. What is the need of software maintenance? Enumerate and describe the various types of software maintenance.
- (a) What is software testing? What are the objectives of software testing? Discuss the principles of software testing.
 - (b) Discuss the various software quality attributes. 4