

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: Software Engineering (CSEG301) **Semester: V**
Programme: Btech CS+LLB
Time: 03 hrs. **Max. Marks: 100**
Instructions: Attempt all questions.

SECTION A

S. No.		Marks	CO
Q 1	Explain requirement elicitation techniques?	4	CO1
Q 2	Define FP analysis?	4	CO2
Q 3	Why Consider Formal Methods?	4	CO4
Q 4	Discuss Cleanroom Process?	4	CO5
Q 5	Differentiate high-level and low-level design?	4	CO3

SECTION B

Q 6	What are the different design principle in software engineering for designing any software application? Explain in details.	10	CO3
Q 7	Define Test-scenario, Test-Case, RTM, QTC and Defect report? Or Analyze any online shopping application and create at least 10 Test cases for execution.	10	CO3
Q 8	Discuss type of Formal Specifications?	10	CO4
Q 9	What are the benefits and limitations of Formal Specifications?	10	CO5

SECTION-C

Q 10	We are bank industry, and very keen to opt the software application for the growth of our business. The following are the main requirements: Account opening, Transactions, Demand Draft, Loan and Fixed deposit Prepare SRS for above requirements in details. Or We are Telecom industry, and very keen to opt the software application for teleservices like prepaid and postpaid with data plan. The following are the main requirements: Account information for customer, prepaid and postpaid plan, recharge and bill payments, customer relationship. Prepare SRS for above requirements in details.	20	CO2
Q 11	Explain spiral model and compare it with win-win model? Compare and contrast different SDLC model with the help of table?	20	CO1

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SECTION A

S. No.		Marks	CO
Q 1	What is risk analysis?	4	CO1
Q 2	How software matrices help us to evaluate budget of application?	4	CO2
Q 3	Compare cohesion and coupling?	4	CO3
Q 4	What are Formal Methods?	4	CO4
Q 5	Illustrate software re-engineering?	4	CO5

SECTION B

Q 6	Explain the design concepts in software engineering? What are the effective modular design for any application, explain with suitable example.	10	CO3
Q 7	Prepare at least 10 test scenario and 10 test cases for any e-commerce web application? Or Analyze any ERP application and prepare at least 10 test cases for execution of functional testing.	10	CO3
Q 8	Explain Cleanroom software development?	10	CO5
Q 9	What are the benefits of Formal Specifications?	10	CO4

SECTION-C

Q 10	We are Insurance industry, and very keen to opt the software application for the growth of our business. The following are the main requirements: Account information for customer, insurance plan like general, health, life and group, claim settlement and premium payment service with CRM. Prepare SRS for above requirements in details. Or We are Telecom industry, and very keen to opt the software application for teleservices like prepaid and postpaid with data plan. The following are the main requirements: Account information for customer, prepaid and postpaid plan, recharge and bill payments, customer relationship. Prepare SRS for above requirements in details.	20	CO2
Q 11	Compare and Contrast different SDLC models along with different parameters with the help of table.	20	CO1