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a)

b) c)

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Level: Bachelor Semester: Spring Year : 2015 Programme: BE Full Marks: 100 Course: Object Oriented Software Development Pass Marks: 45 Time : 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. What is UML? Is UML an object oriented supported tool to design 8 a) Object Oriented Systems. Support your answer a suitable example. What are the activities of Unified Process? Describe in short. b) What is Business modeling? What is the relationship between 7 a) Business modeling and requirement gathering in the development of a software? Take an example to prove your point. Discuss the strength and weakness of Object-Oriented and procedural 8 b) programming with the help of Point of Sale system. (Hint: Point of Sale is a system that is used in super stores like Saleways or Bhatbhateni to capture sales). What are Use Cases? Describe workflow for capturing requirement as a) use cases, including the participating workers and their activities. Design patterns have to be applied using some programming language. Discuss the statement in the light of programming paradigm versus design patterns. Take any two patterns with an example to prove your point. What is the role of design pattern? How is design pattern important? 8 Highlight the role of software development with respect to the design pattern? Write about structure and documentation of pattern. 7 b) Define design principle, design concept and design pattern. What are 8 the disadvantages of design patterns? 7 What is software architecture? Why do we need it? b) 5 Describe Message oriented architecture with a help of an example. a) Discuss about Client Server and Distributed architecture. Are they 10 similar? Justify. What is the role of distributed architecture in today's world of automation? Explain. Write short notes on: (Any two) 2×5 Player-Role design pattern Reuse vs Reusability

Life Cycle of Unified Software Development Process

: 2016 Semester: Fall Year Level: Bachelor Full Marks: 100 Programme: BE Course: Object Oriented Software Development Pass Marks: 45 · 3hrs Time Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. What is object-oriented analysis and design? Support your answer with suitable example. What are the phases of Unified Process? Describe in short. 7 b) "System development is model development." Do you agree? Justify 7 a) your answer. Discuss the strength and weakness of Object-Oriented and procedural 8 b) programming with the help of Banking transaction example. Describe workflow for capturing requirement as use cases, including 7 a) the participating workers and their activities. Design is four dimensional view of a system. Justify along with 8 b) design concepts. Define design pattern. How is design pattern important? Is software a) development possible without applying design pattern? Describe s suitable design pattern for following problem. 8 b) "What is the best way to represent related objects (occurrence) in a class diagram?" Define design principle, design concept and design pattern. What are a) the disadvantages of design patterns? What is software architecture? Why do we need it? 7 Describe Service oriented architecture and design principles it helps to 7 a) adhere. Discuss in short about MVC Architecture with suitable diagram. 8 Write short notes on: (Any two) 2×5

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a)

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Player-Role design pattern

Reuse vs Reusability

Class Diagram

		Level: Bachelor S Programme: BE	Semester: Spring	Year : 2016 Full Marks: 100	
		Course: Object Oriented Softv	ware Development	Pass Marks: 45 Time : 3hrs.	
		Candidates are required to gi as practicable.	ive their answers in the	ir own words as far	
		The figures in the margin indi	icate full marks.		
		Attempt all the questions.			
	a)	Describe the Object Orie example.	ented Analysis and D	esign process with	8
	b)	Differentiate process and engineering ultimately is als			7
	a)				8
b) Change management is very important in Development. Why and how is it done?					7
	a)				7
	b)	Models development is dr diagram.	iven by use case. Ex	xplain with suitable	8
	a)	Describe Player-Role patter	m.		7
	b)	Read following problem and suggest a design pattern with relevant information.			8
		Problem: How do you ensur than one instance of a single		ble to create more	
	a)	Can anyone build a softwa What are advantage of using		ing design pattern?	7
	b)	List and describe the princip		design in brief.	8
	a) _	Can one architecture be Compare and contrast desig			7
	b)	Describe MVC architectura to adhere.			8
	Wi	Write short notes on: (Any two)			
	a)				
	b)	Interaction Diagram			
	c)	Importance of design patter	'n		

3.

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Level Bachelor Semester: Spring Year . 2017 Programme: BE Full Marks: 100 Course: Object Oriented Software Development Pass Marks: 45 Time · 3hrs Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. Explain about Object Oriented Analysis and Design with suitable 2) 7 examples. What is UML? Explain different UML Diagrams with an appropriate b) 8 example. Explain Iterative and Incremental Development Process. a) 7 Explain 4 P's of software development. b) 8 What is Unified Software Development Process? Explain its a) 8 characteristics. b) What is Design Pattern? Write about importance of Design Patterns. 7 Describe Structural design pattern. 7 a) Write about structure and documentation of pattern. b) 8 Explain about Singleton pattern along with code in any suitable a) 8 programming language (c++ or java or c#). What is Software Architecture? Describe an architecture using UML. 7 b) What do you mean by architectural pattern? Explain about Model 8 View Controller (MVC) architectural pattern. Explain Message Oriented Architecture Pattern with design principles. 7 Write short notes on: (Any two) 2×5 Life Cycle of Unified Software Development Process a) Observer Pattern b)

Worker, Activity, Artifact and Workflow

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