POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year: 2016
Programme: BE
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.

third aniented analysis and design? Support your answer

The figures in the margin indicate full marks.

Attempt all the questions.

	a)	with suitable example.	Ü
	b)	What are the phases of Unified Process? Describe in short.	7
2.	a)	"System development is model development." Do you agree? Justify your answer.	7
	b)	Discuss the strength and weakness of Object-Oriented and procedural programming with the help of Banking transaction example.	8
3.	a)	Describe workflow for capturing requirement as use cases, including the participating workers and their activities.	7
	b)	Design is four dimensional view of a system. Justify along with design concepts.	8
4.	a)	Define design pattern. How is design pattern important? Is software development possible without applying design pattern?	7
	b)	Describe s suitable design pattern for following problem. "What is the best way to represent related objects (occurrence) in a class diagram?"	8
5.	a)	Define design principle, design concept and design pattern. What are the disadvantages of design patterns?	8
	b)	What is software architecture? Why do we need it?	7
	a)	Describe Service oriented architecture and design principles it helps to adhere.	7
	b)	Discuss in short about MVC Architecture with suitable diagram.	8
7.	Write short notes on: (Any two)		2×5
	a)	Player-Role design pattern	
	b)	Reuse vs Reusability	
	c)	Class Diagram	

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Importance of design pattern

1.	a)	Describe the Object Oriented Analysis and Design process with example.	8
C	b)	Differentiate process and product engineering. Justify process engineering ultimately is also a product engineering.	7
2.	a)	How object oriented programming is flexible than procedure oriented programming? Explain with banking transaction example.	8
	b)	Change management is very important in Iterative and Incremental Development. Why and how is it done?	7
3.	a)	What is software quality? Software qualities have different perspectives. Justify.	7
	b)	Models development is driven by use case. Explain with suitable diagram.	8
4.	a)	Describe Player-Role pattern.	7
	b)	Read following problem and suggest a design pattern with relevant information.	8
		Problem: How do you ensure that it is never possible to create more than one instance of a single class?	
5.	a)	Can anyone build a software without implementing design pattern? What are advantage of using design pattern?	7
	b)	List and describe the principles that leads to good design in brief.	8
6.	a) _	Can one architecture be applied to multiple software projects? Compare and contrast design and architectural pattern.	7
	b)	Describe MVC architectural pattern with the design principles it helps to adhere.	8
7.	Writ	te short notes on: (Any two)	2×5
	a)	Architecture centric process	
	b)	Interaction Diagram	