Tota	ıl No	. of Questions : 12]	SEAT No. :
P1024		[4661]-41	[Total No. of Pages : 2
		S.Y. M.C.A. (Engineering	Faculty)
		SOFTWARE ENGINE	• /
		(Semester - IV) (2008 Pattern) (6	(10909) (Theory)
Tim	e:3	Hours]	[Max. Marks : 70
		ons to the candidates:	
	<i>1)</i>	Answer three questions from Section - I and th	ree questions from Section - II.
	<i>2)</i>	Answers to the two sections should be written it	n separate answer books.
	<i>3)</i>	Neat diagrams must be drawn wherever necessor	ary.
	<i>4)</i>	Figures to the right indicate full marks.	
	<i>5)</i>	Assume suitable data, if necessary.	
		SECTION - I	
Q1)	a)	What is the role of modeling & construct	on in software process models? [6]
	b)	Explain all levels of CMMI.	[6]
		OR	
Q2)	a)	What do you understand by Evolutionary evolutionary model.	y model? Draw and explain any [6]
	b)	Explain the concept of process pattern w	
Q3)	a)	What is software process model? Explandels.	ain personal and team process [6]
	b)	Explain prototype model? What are the other models.	advantages of this model over [6]
		OR	
Q 4)	a)	Explain the importance of coding princi	ples and concepts. [8]

b) Explain Hatley-Pirbhai Modeling with an example. [4]

Q5) a) What are the importance of software principles and practices? Explain any two practices.[8]

b) Draw a Swim lane diagram for railway reservation systems. [3]

OR

Q6) a) Describe the Class Responsibility collaboration model with example. [8]

b) Explain the Scenario-based Analysis for requirement engineering. [3]

SECTION - II

Q7)	a)	What are the goal of requirement engineering? What do you mean functional and non functional requirements?	
	b)	Explain Golden Rules for Interface Design. [6]
		OR	
Q8)	a)	Explain the following of The Design Model:	
		i) Architectural design elements [3	[
		ii) Interface design elements [3]
	b)	What do you mean by modularity? What is its contribution towa achieving a good quality software?	
Q9)	a)	List all software testing methods. Explain any one in brief. [6	[[
	b)	Explain in brief verification and validation. [5	[]
		OR	
Q10) a)	Explain the two ways of system testing. [6	[
	b)	How the software testing can be carried out by using object oriented approach? Explain its various methods. [5]	
Q11,) a)	Write a note on: [6	[6
		i) Orthogonal Array testing	
		ii) Basic path testing	
	b)	b) What is the main aim of software maintenance? Explain with software metric for maintenance.	
		OR	
Q12) a)	What do you mean control structural testing? Explain its various types.[6	[[
	b)	What are the attributes of effective software metric? Explain measure measurement and metrics. [6]	

Total No. of Questions	:	12]	
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CEATINI	
SEAT No.:	

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[4661]-42

S.Y. M.C.A. (Engineering) WEB TECHNOLOGY

(Semester - IV) (610910) (2008 Pattern)

Time: 3 Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) From Section I, answer (Q1 or Q2), (Q3 or Q4), (Q5 or Q6).
- 2) From Section II, answer (Q7 or Q8), (Q9 or Q10), (Q11 or Q12).
- 3) Answers to the two sections should be written in separate answer books.
- 4) Neat diagrams must be drawn wherever necessary.
- 5) Figures to the right indicate full marks.
- 6) Make suitable assumptions, wherever and relevant.

SECTION - I

Q1) a) State whether the following are true or false:

- [2]
- i) The IP Address consists of two parts Network number and host number.
- ii) All web servers use port 80 to listen for server response.
- b) Comment on and explain:

[6]

- i) Telnet can actually be used to send HTTP commands to a web server.
- ii) To improve the performance of HTTP Byte serving is used in it.
- c) Explain the role of middleware in the web development models. [4]

OR

- **Q2)** a) Differentiate between static & Dynamic web sites with a suitable example. [6]
 - b) Explain the execution of dynamic web pages stepwise in details with a suitable diagram. [6]

Q3)	a) Design an HTML form to generate an E-book. First the user she the registered user of that web site. Then check whether the book to download. If not then proceed to purchase that book online.		
	b)	Explain the syntax of a rule in CSS with a suitable example.	[4]
		OR	
Q4)	a)	Explain how a web server can be made dynamic?	[5]
	b)	Explain the concept of classes in CSS with a suitable example.	[6]
Q5)	a)	What is the Error object in VBScript? Explain its properties and metho	ds. [4]
	b)	Write a program in VBScript for designing a simple calculator. Assu appropriate data for the design.	me [8]
		OR	
Q6)	a)	Compare:	[6]
		i) VBScript and JavaScript.	
		ii) ASP and JSP.	
		iii) ForNext and ForEachNext statements in VBScript.	
	b)	Explain two kinds of procedures in VBScript.	[6]
		SECTION - II	
Q7)	a)	Explain the concept of DOM in Javascript with all objects & th important properties and methods with a suitable diagram.	eir [8]
	b)	Write a short note on Event handling in javascript.	[4]
		OR	
Q8)	a)	What is cookie? How it is created and read? Describe difference betwee Cookie and session?	een [6]
	b)	Explain Alert, confirm, and prompt functions in Javascript with a suita example.	ble [6]

Q9) a)	Explain the client server communication of AJAX Technology.	[6]
b)	Explain the various stages of Life cycle of JSP page.	[5]
	OR	
Q10) a)	What is JSP Directives? Explain the types of Directives.	[6]
b)	What is AJAX? Explain the AJAX model & explain how it works.	[5]
Q11) a)	Explain the Framework of ASP .net.	[6]
b)	Write Short note on:	[6]
	i) View state	
	ii) Compare ASP and ASP.Net	
	OR	
Q12) a)	Explain the types of ASP.net validation controls.	[6]
b)	Explain the architecture of ADO.net.	[6]

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