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10CS73

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021
Programming in Web

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

- 1 a. Illustrate with a neat diagram, the working of Domain Name Server. (08 Marks)
 b. Why MIME is required in HTTP Responses? Write the format of MIME specification. (04 Marks)
 c. Demonstrate with an example, the use of the following XHTML tags : (08 Marks)
 i) <sub> ii) <sup> iii) <meta> iv) .
- 2 a. Enlist and explain with an example the different types of lists used in XHTML documents. (09 Marks)
 b. Demonstrate with an example the different levels of CSS. (06 Marks)
 c. List and briefly explain Selector Forms used in CSS. (05 Marks)
- 3 a. Explain JavaScript's Screen Output and Keyboard Input functions. (10 Marks)
 b. With the help of an example for each, explain any 5 array methods of Javascript. (10 Marks)
- 4 a. Analyse the DOM structure of Javascript and explain its working. (06 Marks)
 b. Explain the 2 techniques to access form elements in Javascript. (08 Marks)
 c. Demonstrate the use of Onclick event on the input tag. (06 Marks)

PART - B

- 5 a. How are Elements , Attributes and Entities declared in DTD? (12 Marks)
 b. What is XSLT used for? With the help of a neat diagram, explain the working of XSLT processor. (08 Marks)
- 6 a. Explain the 3 types of variables in Perl. Give example for each. (12 Marks)
 b. Explain Perl's File Input and Output functions. Demonstrate how to read and write a file. (08 Marks)
- 7 a. How are Array's created in php? Explain the explode and implode functions of php. (08 Marks)
 b. Demonstrate with an example program , how Form Data is handled in php. (08 Marks)
 c. What are Cookies? How do we write and read a Cookie in php? (04 Marks)
- 8 a. Explain Ruby's Screen Output and Keyboard Input functions. (06 Marks)
 b. How are Classes declared and Inherited in Ruby? (04 Marks)
 c. Write a note on Rail's framework and its Directory structure. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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Seventh Semester B.E. Degree Examination, Jan./Feb. 2021
Object-Oriented Modeling and Design

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART – A

- 1 a. What is Object Orientation? Elaborate on the major themes that are well supported in Object Oriented technology. (08 Marks)
- b. Use illustrations and explain the following with UML convention. (06 Marks)
 - i) Class
 - ii) Values and attributes
 - iii) Operations and Methods.
- c. What is generalization? Briefly discuss the generalization for equipments with neat diagram. (06 Marks)
- 2 a. Explain the following: i) Association Ends ii) N-ary Association iii) Constraints on links (06 Marks)
- b. Explain the summary of basic state diagram notation with style conventions. (08 Marks)
- c. What is state? Explain the various characterizations of a state. (06 Marks)
- 3 a. What is a nested state? Illustrate the importance of aggregation concurrency with the help of a state diagram. (08 Marks)
- b. Explain use case relationship with a neat diagram. List the guidelines for use case relationships. (08 Marks)
- c. Explain Swimlanes with a neat activity diagram. (04 Marks)
- 4 a. Identify the classes for ATM bank system. What criteria would you take into consideration to select right classes? Explain. (08 Marks)
- b. What is System conception? List and explain questions that must be answered by a good system concept. (08 Marks)
- c. Differentiate between waterfall approach and iterative approach. (04 Marks)

PART – B

- 5 a. List and explain the steps for constructing application state model. (10 Marks)
- b. Describe the steps involved to allocate each concurrent sub-system to a hardware unit, either a general purpose processor or a fractional unit. (10 Marks)
- 6 a. Briefly discuss the design optimization and explain its tasks in detail. (08 Marks)
- b. What is fine-tuning classes? Explain fine-tuning generalization by developing a translation model. (08 Marks)
- c. Explain how to bridge the gap from high-level requirements to low-level services in class design. (04 Marks)
- 7 a. What is Pattern? Explain briefly properties of patterns for software architecture. (08 Marks)
- b. Explain client-dispatcher design pattern. (08 Marks)
- c. Describe three categories of patterns. (04 Marks)
- 8 a. Explain the command processor design pattern. (08 Marks)
- b. What are idioms and styles? Explain with the help of an example. (04 Marks)
- c. Write a note on:
 - i) Structure of view handler pattern.
 - ii) Consequence of view handler pattern. (08 Marks)

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