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Question Paper Code : 70387

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Fifth Semester

Computer Science and Engineering

CS 6501 — INTERNET PROGRAMMING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give at least three differences between overriding and overloading of methods in Java.
2. Give an example for a chained exception in Java.
3. Differentiate internet and intranet.
4. When users enter a Uniform Resource Locator (URL) address, into a web browser, how is the specific document retrieved from a web server?
5. How exceptions are handled in Java script?
6. What are the three methods that is central to the lifecycle of a servlet?
7. List the important characteristics of PHP.
8. Explain DTD for XML Schemas.
9. What is a web service? Give any four examples.
10. List any four merits for usage of AJAX in web services.

PART B — (5 × 13 = 65 marks)

11. (a) Write a Java program that inputs three integers from the user and displays the sum, the largest number, the smallest number and determines whether the third number is a product of the first two numbers.

Or

- (b) (i) Explain Java thread model with an example. (7)
(ii) What do you mean by an Applet? Create a Java program that repeatedly flashes image on the screen. (6)
12. (a) Discuss on
(i) Web servers (7)
(ii) XHTML. (6)

Or

- (b) Elaborate with example the usage of CSS in HTML. (13)
13. (a) Explain DOM nodes and DOM trees. With examples show how to model a document using DOM and how to traverse and modify DOM trees.

Or

- (b) Explain the lifecycle of servlets with suitable examples.
14. (a) Create a Webserver based chat application using PHP. The application should provide the following functions (13)
(i) Login
(ii) Send message (to one or more contacts)
(iii) Receive messages (from one or more contacts)
(iv) Add / delete/ modify contact list of the user.

Discuss the application's user interface and use comments in PHP to explain the code clearly.

Or

- (b) (i) List the essential features of XML parsers. (7)
(ii) List at least five significant differences between DTD and XML schema for defining XML document structures with appropriate examples. (6)

15. (a) (i) Explain the concept of JSON with an example. (6)
(ii) Describe SOAP, UDDI and WSDL in detail. (7)

Or

- (b) Explain about the object that helps AJAX reload parts of a web page without reloading the whole page. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Consider the production inventory model with backorders. The data are $D = 10000/\text{year}$, $P = 16000/\text{year}$, $C_o = \text{Rs.}350/\text{setup}$, $C_c = \text{Rs.}3.6/\text{unit}/\text{year}$ and $C_s = 100/\text{unit}/\text{year}$. Find the batch quantity Q and the total cost. Find the time in a cycle, where there is production and consumption of existing inventory, and build up of backorder.

Or

- (b) A rectangular box open at top is to have volume of 32 m^3 . Find the dimensions of the box requiring the least material for construction.
