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**Question Paper Code : 65015**

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2013.

Eighth Semester

Software Engineering

XCS 482 — WEB TECHNOLOGY

(Common to 5 Year Computer Technology/ 5 year M.Sc. Information Technology)

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How does a router facilitate interconnection between two or more networks?
2. Why is HTTP called as a stateless protocol?
3. Justify the importance of Personalization in E-Business.
4. What is a dynamic web page?
5. Why are credit cards inherently insecure for the electronic commerce?
6. What are the differences between SSL and SET?
7. What is EDI? How does it work?
8. Compare and Contrast between SAX and DOM parsers.
9. What are Web Services?
10. How does the .NET framework support multiple languages?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the three parts of an IP address. (8)  
(ii) Describe the main fields of UDP datagram header. (8)

Or

- (b) (i) Explain the broad level features of TCP. (8)  
(ii) Briefly discuss when to use TCP and when to use UDP. (8)
12. (a) (i) How does a gateway work? (4)  
(ii) Describe server object and Application object used in ASP programming. (7)  
(iii) Give output of the following statements in ASP: (5)

(1) `Response.Write(INSTR(LTRIM(" Web Technology"), "Tech"))`

(2) `Response.Write(UCASE(RIGHT("Multimedia",5)))`

(3) `Response.Write(ABS(4 - 10 * 3 ^ 2))`

Or

- (b) (i) Write the features required for enabling c-commerce. (5)  
(ii) What are the types of filters? Explain. (5)  
(iii) Write about dynamic positioning in DHTML with example. (6)
13. (a) (i) Illustrate how digital signatures work by giving an example. (8)  
(ii) How does the SSL protocol work? (8)

Or

- (b) (i) Discuss the 3-D secure protocol. How is it different from SET? (6)  
(ii) Why are component based solutions most preferred? (5)  
(iii) What is meant by sessions? How sessions are maintained? (5)
14. (a) (i) Describe the internal architecture of a WAP gateway. (8)  
(ii) Describe the WAP stack in brief. (8)

Or

(b) (i) What are the limitations that mobile devices have in data interchange? (8)

(ii) The Human Resources Department for a small but growing company, Zippy Delivery Service, has decided that in order to make their employee data flexible across all the applications used by the company, the employee data should be stored in XML. The following fields are decided for including in the XML structure. (8)

(1) Employee name

(2) Position

(3) Age

(4) Sex

(5) Race

(6) Marital Status

(7) Address Line 1

(8) Address Line 2

(9) City

(10) State

(11) Zip code

(12) Phone number

(13) Email Address.

Design an XML document, considering the above fields. (8)

15. (a) (i) Describe Web services and explain the business and technical motivations for web services. (8)

(ii) Explain how validation controls work in ASP.NET. Write a program in ASP.NET, which will take the user name and password and perform effective validations. (8)

Or

(b) (i) Discuss in detail how database processing happens in ASP.NET with an example. (8)

(ii) Write notes on online shopping. Write the security issues in online payments. (8)