WEB DESIGNING

2K7-DS-01

Time : 3 Hrs.

M.M. : 100

Note :—

1. Part 'A' may be attempted in first 6 pages of Answer Sheet.
   भाग 'क' के सभी उत्तर, उत्तर-पुस्तिका के प्रथम छ: पृष्ठों में ही करने है।

2. Part 'B' in rest of the Sheets of Answer Sheet.
   भाग 'ख' के उत्तर, उत्तर-पुस्तिका के आगले शेष पृष्ठों में लिखिये।

3. Answers may be given in English or Hindi.
   प्रश्नों के उत्तर अंग्रेजी अथवा हिन्दी में दीजिये।

PART - A

1. Attempt any 10 questions:

   $(10 \times 2 = 20)$

   (a) What is XML?

   (b) What is an attribute?

   (c) What is https?

   (d) Define SOAP.

   (e) Give two uses of web services.

   (f) What are the components of a web service?

   (g) What are the most commonly used methods for a request-response between a client and server model?

   (h) Give any two problems associated with traditional distributed application architectures and technology.

   (i) What is a namespace in an XML document?

   (j) What are the components of web service architecture?

   (k) Define authentication in context of XML web services?

   (l) What is web service discovery process?

   (m) Give any two tags used in XML.

   (n) What are the various phases of web service programming model?

(5 × 4 = 20)

2. **Attempt any five question:-**

   (a) What are the characteristics of a web service? Explain them.

   (b) What are the components of an HTTP request structure sent from the client? Briefly elaborate them.

   (c) Give the proper steps for Developing an XML Web service using ASP.NET.

   (d) Explain the XML messaging structure using SOAP.

   (e) What restrictions are imposed on data types by Web service protocols, and why?

   (f) Elaborate on how the Web Service architechures are a type of service-oriented architecture.

   (g) Describe the evolution of distributed applications over years.

   (h) How is XML different from HTML?

PART-B

Answer any three questions   (3 × 20 = 60)

3. (a) Describe the elements of a Web service architecture and explain their roles in brief.

   (b) Explain the use of security mechanisms that Microsoft IIS and Windows provide for authentication.

4. (a) Explain the web services discovery process in details.

   (b) What are the features of WSDL protocol? Explain in details.

5. (a) Give the advantages and drawbacks of using XML.

   (b) Explain the design guidelines to be kept in mind while creating XML Web Services using ASP. NET.

6. (a) Compare between SOAP and REST web services.

   (b) What are the components of a Web service? Explain each of them in details.

7. (a) What is HTTP? Write it's features and draw a diagram respresenting HTTP communication process.

   (b) What are the key features in any Web service? Explain them.