

(2 ½ Hours)

[Total Marks: 75]

- N.B.
- 1) All questions are compulsory.
  - 2) Figures to the right indicate marks.
  - 3) Illustrations, in-depth answers and diagrams will be appreciated.
  - 4) Mixing of sub-questions is not allowed.

**Q. 1 Attempt All**

**(a) Multiple Choice Questions.**

**(10M)**

- 1) \_\_\_\_\_ layer is responsible for actually transporting XMLmessages between two computers.
  - a) Service Protocol
  - b) Service Messaging
  - c) Service Transport
  - d) Service Description
- 2) \_\_\_\_\_ is an XML-based standard for describing, publishing, and finding web services.
  - a) SOAP
  - b) HTTP
  - c) WSDL
  - d) UDDI
- 3) The basic Web Services platform is combination of \_\_\_\_\_ and \_\_\_\_\_
  - a) CSS + HTTP
  - b) XML + HTML
  - c) XML + HTTP
  - d) CSS + JAVA
- 4) SOAP is \_\_\_\_\_
  - a) Simple Object Active Protocol
  - b) Sample Object Access Protocol
  - c) Sample Object Active Protocol
  - d) Simple Object Access Protocol
- 5) Which of the following is not a valid HTTP method used in RESTful web services?
  - a) OPTIONS
  - b) DATE
  - c) GET
  - d) POST
- 6) Which of the following annotation of JAX RS API is used to annotate a method to get the relative path of the resource class/method?
  - a) @Path
  - b) @GET
  - c) @PUT
  - d) @POST
- 7) URI Stands for \_\_\_\_\_
  - a) Unit Resource Identifier
  - b) Uniform Representation Identifier
  - c) Uniform Resource Identifier
  - d) Unified Resource Identifier.



**Q. 4 Attempt the following (Any THREE) (15M)**

- (a) What is Windows Communication Foundation (WCF)? Explain the Features of WCF in detail.
- (b) Write a note on Quality of Service (QoS) for Webservices.
- (c) Giving example, explain how to define a Windows Communication Foundation Service Contract.
- (d) Describe Windows Communication Foundation Architecture in Detail.
- (e) What do you mean by Operation Contract? Explain in detail.
- (f) Explain different tasks that are required to build a WCF application

**Q. 5 Attempt the following (Any FIVE) (15M)**

- (a) Write a short note on the Client-Server model.
  - (b) What is the use of XML schema?
  - (c) Write about the characteristics of Inter-process communication in brief.
  - (d) Write a note on HTTP basic authentication.
  - (e) What is Swagger?
  - (f) List the advantages and disadvantages of Statelessness.
  - (g) What are WCF's ABC?
  - (h) Write about Endpoint in WCF.
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