Nom-2022 Paper / Subject Code: 82906 / Web Services

(4) 25/11/22
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Tipis.

[Total Marks: 75]

(2 1/2 Hours)

N.B.	1) All questions are compulsory.	
	2) Figures to the right indicate ma	rks. S
	3) Illustrations, in-depth answers a	
	4) Mixing of sub-questions is not a	
	3	The second of the second
Q. 1	Attempt All	
(a)	Multiple Choice Questions.	
4)		(10M)
	between two computers.	for actually transporting XMLmessages
	a) Service Protocol	b) Service Messaging
	c) Service Transport	d) Service Description
		d) Betvice Description
	2) is an XML-based	standard for describing, publishing, and
	finding web services.	standard for describing, publishing, and
	a) SOAP	b) HTTP
	c) WSDL	d) UDDI
	,	a) obbi
. 3) The basic Web Services platf	orm is combination of and
-	a) CSS + HTTP	
	c) XML + HTTP	b) XML + HTML
	C) ANL + HIIP	d) CSS + JAVA
4	SOAP is	
7)	a) Simple Object Active Protoco	b) Sample Object Access Protocol
	c) Sample Object Active Protoco	ol d) Simple Object Access Protocol
	Which of the following is not a vertices?	alid HTTP method used in RESTful web
501	a) OPTIONS	b) DATE
		- 34
	c) GET	d) POST
6)	Which of the following annotation	n of JAX RS API is used to annotate a
	hod to get the relative path of the	
	a) @Path	b) @GET
	c) @PUT	d) @POST
	-	, 0
7) U	IRI Stands for	· · · · · · · · · · · · · · · · · · ·
	a) Unit Resource Identifier	b) Uniform Representation Identifier
	Uniform Resource Identifier	d) Unified Resource Identifier.

9	8) Which contract supports Transaction Flow? a) Service b) Operation	1000
	c) Message	×-
(b)	9) WCF services can communicate with a) All programming languages. b) XML. c) only the languages included with Visual Studio .NET. d) multiple platforms and multiple languages. 10) Which one is not a class in WCF? a) BasicHttpBinding b) BasicHttpContextBinding c) BasicHttpsBinding d) ClientBinding Fill in the blanks (HTTP, Two, 200, Elements & Attribute, Envelop & Header, TCP/IP, One, Stub, 300)	(5M)
	 i. XML Schema Consist of	(d)
Q. 2	Attempt the following (Any THREE)	(15M)
(a)	Explain the characteristics of Web Services.	
(b)	Explain SOAP web Service in detail.	
(c)	Describe the structure of WSDL document.	
(d)	What is the Enterprise Service Bus and how does it relate to SOA?	
(e)	What is JAX-WS? How it is useful for describing SOAP web services?	
(f)	Explain XML Document structure with example.	
Q. 3	Attempt the following (Any THREE)	(15M)
(a)	List and explain the various Http methods required for creating	
	RESTful Web Services.	
(b)	Explain annotations used in RESTful web service.	
(c)	List and explain any five JAVA frameworks for building RESTful web services.	
(d)	Describe the core constraint of RESTful system.	
(e)	Explain the characteristics required for Good Resource Representation.	
(f)	Write a short note of JSON object and JSON array.	
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Attempt the following (Any THREE) Q. 4

(15M)

- What is Windows Communication Foundation (WCF)? Explain the Features (a) of WCF in detail.
- Write a note on Quality of Service (QoS) for Webservices. (b)
- Giving example, explain how to define a Windows Communication (c) Foundation Service Contract.
- Describe Windows Communication Foundation Architecture in (d)
- What do you mean by Operation Contract? Explain in detail. (e)
- Explain different tasks that are required to build a WCF application (f)
- Attempt the following (Any FIVE) Q. 5

(15M)

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