## TYB.Sc es Sem-V

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



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L /.	-/2	110	11	rel

[Total Marks: 75]

N.B.	1) All questions are compulsory.	
	2) Figures to the right indicate mari	cs. St. St.
	3) Illustrations, in-depth answers ar	
	4) Mixing of sub-questions is not al	loved
	y many or one questions is not all	Towed.
0.1	Attornat All	
Q. 1	Attempt All	
(a)	Multiple Choice Questions.	(10)
	1) layer is responsible	for actually transporting XMLmessages
	between two computers.	
	a) Service Protocol	b) Service Messaging
	c) Service Transport	d) Service Description
		2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
	2) is an XML-based s	tandard for describing, publishing, and
1	finding web services.	
	a) SOAP	b) HTTP
	c) WSDL	d) UDDI
	VTI- India W. I. Combined	
, 3	) The basic Web Services platfo	rm is combination of and
_	a) CSS + HTTP	
		b) XML + HTML
	c) XML + HTTP	d) CSS + JAVA
4)	SOAP is	
	a) Simple Object Active Protocol	
	c) Sample Object Active Protocol	d) Simple Object Access Protocol
		lid HTTP method used in RESTful web
ser	vices?	
	a) OPTIONS	b) DATE
	c) GET	d) POST
6) \	Which of the following annotation	of JAX RS API is used to annotate a
	hod to get the relative path of the re	
	g. we remain a pain or me r	·
	a) @Path	b) @GET
	c) @PUT	d) @POST
	-, -, -, -, -, -, -, -, -, -, -, -, -, -	4) 661 001
7) []	RI Stands for	
	u) Unit Resource Identifier	h) Uniform Penracentation Identifica
	c) Uniform Resource Identifier	b) Uniform Representation Identifier
·	, chilom resource identifier	d) Unified Resource Identifier.

17	8) Which contract supports Transaction Flow?	5 4	5
	a) Service b) Operation	on	1 5
	c) Message	20	
	9) WCF services can communicate with	J. 18	57
	a) All programming languages.	0	100
	b) XML		100
	c) only the languages included with Visual Studio .NE	T.	
	d) multiple platforms and multiple languages.		
	10) Which one is not a class in WCF?		
	a) BasicHttpBinding		
	b) BasicHttpContextBinding	.5	JA 8
	c) BasicHttpsBinding		34
	d) ClientBinding		
			15
<b>(b)</b>		ibute, Envelop &	(5M)
	Header, TCP/IP, One,Stub,300) i. XML Schema Consist of		
	ii. RPC provides a on the client side, a	separate one for	
	each remote procedure.	separate one to	
	iiiprotocol is used by RESTful we	eb services as a	
	medium of communication between client and serv		
	iv. HTTP Status code means OK, shows	success.	635
	v. The default WCF Request Send/Receive timeout is	min(s).	
Q. 2	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 we	eb services?	
(f)	Explain XML Document structure with example.		
Q. 3			(15M)
(a)	List and explain the various Http methods required for creat	ting	
a >	RESTful Web Services.		
(b)	Explain annotations used in RESTful web service.	DECTE 1	
(c)	List and explain any five JAVA frameworks for buildi services.	ng KESTRII web	
(d)	Describe the core constraint of RESTful system.		
(e)	Explain the characteristics required for Good Resource		
	Representation.		
(1)	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)