No. of Printed Pages: 4

Time . 2 Hours

## MCS-051

## MASTER OF COMPUTER APPLICATIONS (MCA) (Revised)

## Term-End Examination December, 2019

MCS-051: ADVANCED INTERNET TECH.

	Maximum Marks:	100
Note: Question No. 1	is compulsory. Attempt	any
three questions	from the rest.	

- 1. (a) (i) What is the function of an XML parser?
  - (ii) What is the difference between a well formed and valid XML document? 2
  - (iii) How does an XML parser process each of them?
  - (iv) What is the output of an XML parser and what kind of program uses it? 2
  - (b) Consider a relational database table customer. The fields of the table are name,

mobile_number,	address	and	email_id
Write a servlet p	rogram to	conn	ect to this
database and ins	ert 5 reco	rds in	the table.
You are required	to conne	ct the	database
using JDBC drive	er.		10

- (c) Describe four properties that can be configured for JMS based message driven beans.
- (d) What is SSL? Describe the two-way SSL authentication mechanism.
- (e) Briefly describe the components that make up the EJB architecture. What are the advantages of using EJB, for an application?
- 2. (a) Explain the different types of JDBC drivers along with their advantages and disadvantages.
  - (b) What are the cookies and why are they used? Explain the mechanism of how cookies work.
  - (c) Explain the two-ways used for servlet collaboration.

3.	(a)	using scriptlets which take your name as
		input and display its length. 10
	(b)	What is Web Security ? Explain the
		following in context of web security: 10
		(i) Integrity
		(ii) Confidentiality
		(iii) Authentication
		(iv) Authorisation
4.	(a)	What is a Servlet? How is it initialised?
		Explain servlets doPost and doGet
		methods. 8
	(b)	Explain JNDI authentication with code snippet. 5
	(c)	What are the steps involved in using custom JSP tags?
5.	(a)	Consider the following list of attributes: 5
		Boo_Title max 100 characters
		Author_Name (Last, middle, first)
		Publisher_Name
		Price (Different for Hardcover, Paperback, Online)
		Edition_DNo
٠,		Addition Date   can be repeated

Addition\_Date

Write an XML DTD for the above.

- (b) Explain the different kinds of recovery procedures that can be used after the failure of a trusted system.

  5
- (c) What is an entity bean? Write and describe any four required methods of entity beans.

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