CS/B.TECH/IT(0)/ODD/SEM-7/IT-701/2019-20

وتروحه وموارقة والمهيرة والإوارية Utach (interior

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: IT-701

PUID: 07040 (To be mentioned in the main answer script)

INTERNET TECHNOLOGY

Time Allotted: 3 Hours

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Full Marks: 70

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

Choose the correct alternatives for the following:

 $10 \times 1 \approx 10$

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Choose the HTML attribute that is used to define inline styles?

Class

Styles

Lc) Style

Font.

Cookies are stored in

a) Web server

-₽∀ Web browser

Application server

d) Database server.

Identify the option that is not a J2EE product.

Applet a)

Scrvlet c)

Active X Control.

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Driver Manager class is the member of which of the following packages?

- a) java.util
- b) javax.servlet

- java.io
- d) java.sql.

The in XML is equivalent to the schema in database

- Element
- Attribute

Parscr

V dr DTD.

Which one of the following is the correct syntax for Importing a stylesheet in CSS?

- ("import urt ("examples.css")
- (@import.cssurl ("example.css")

(@import-style url ("example.css")

- (import-styleshecturl ("exmple.css").
- vii) Which of the following is used to read parameters from JSP page ?
 - <jsp:getParam/>action
 - b) <jsp:param>action

(c) request.getParameter()method

<jsp:readParam/>action.

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- viii) Which one of the following is a valid declaration of anapplet ?
 - extends Applet Public My लीत्रवष Java.applet.Applet {
 - Public Applet MyApplet (
- applet $I_{G_{2}(c)}$ extends Public class MyApplet implementsRummable {
- extends MyApplet d) .. Public class java.applet.Applet (
- ix) Which of the following statements is false?
 - A servlet runs at the back of JSP
 - Stateless beans occupy more space than statefulsession bean
 - ODBC takes the help of DSN to get bonded with the database
 - "Thin" belongs to the type-IV JDBC driver.
- What does CSS stands for ?
 - Computer Style Sheets a)
 - Cascading Style Sheets **Lb1**
 - Colourful Style Sheets c)
 - Creative Style Sheet.

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GROUP - B

(Short Answer Type Questions)

Answer any three of the following. Write a brief note on the role of Java Script in client side data validation with suitable examples. State also briefly the need of client side validation.

 $3 \times 5 \approx 15$

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- Design firewall to block all traffic from 10.0.0.0/24. except port 23, 80 of TCP.
- What is the advantage of using style sheet in formatting the different elements of web pages in a website? How can we link a style sheet to a web page?
- Describe the anatomy of an XML document.
- What do you mean by cookies, how to create and store a cookie with example? http://www.makaut.com

GROUP - C

(Long Answer Type Questions)

Answer any three of the following. $3 \times 15 = 45$

7. a) A router with IP address 125.45.23.12 and Ethernet physical address 23:45:AB:4F:67:CD has received a packet for a destination with IP address 125.11.78.10 and Ethernet physical address AA: BB: A2: 4F: 67: CD. Show the entries in the ARP request packet sent by the router. Encapsulate the ARP request packet in a data link frame. Fill in all the fields.

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What is java RMI ? Why is RMI useful under 7 + 5 + 3modern computing environment?

In a class B subnet, the IP address of one of the 8. hosts and the mask are given below:

IP Address

125.134.112.66

Mask

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255.255.224.0

What are the first address (network address) and the last address (broadcast address) in this subnet?

- An organization granted a block of address with the beginning address 14.24.74.0/24. There are 256 addresses in this block. The organization needs to have 11 subnets. 2 subnets each have 64 addresses, 2 subnets each have 32 addresses, 3 subnets each have 16 addresses, 4 subnets each have 4 addresses. Design subnets.
- What content in the header of DNS response packet if a query for rabi.xyz.au.ac.in (let us taken IP is 10.3.4.5 and name server IP is 10.0.0.1).
- What is Multicast Addressing? Describe the working principle of transport gateway. 1 + 7 + 4 + 3

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What is XML? What is the basic structure of an XML document?

Compare between SAX and DOM approach in respect of XML Parsing.

Create an xml document which has a root element emp. Root element contains more than one no. of employee element. Each employee has sub-element empname, id. gender and address. Address has the sub-element street, city, region, postalcode, countrycode. Street has two sub-elements street1 and street2. Countrycode has an attribute c_id. Write an external DTD to validate this XML.

(2+3)+4+6

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- What is a tire? What are the advantages of 3-tire architecture over 2-tire architecture?
 - What is Web container? What is Servlet Engine?
 - Discuss about the Servlet life-cycle.
 - d) What do you mean by active web page?

3 + 3 + 6 + 3

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- 11. Write short notes on any three of the following: 3×5
 - a) VPN
 - b) Trojan Horse and Eavesdropping
 - c) VolP
- · (d) SSL
 - e) Web Crawler
 - n zptv.

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