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Paper Code : IT-701

INTERNET TECHNOLOGY
Time Alloned: 3 Hours
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 of the follow	ing: http://www.makaut.com 1×10=10
(i) The address uniquely ident	
(a) IP	(b) Host
(c) NIC	(d) Socket
(ii) Which of the following is an interior	routing protocol?
(a) RIP	(b) OSPF
(c) BGP	(d) Both (a) and (b)
(iii) If a host broadcasts a frame that incluis to assign IP address to itself, which	ides a source and destination hardware address and its purpose it protocol does the host use?
(a) ARP	(b) RARP
(c) RPF	(d) RPM
(iv) The DHCP client starts using the ass	igned address in the state.
(a) select	(b) rebind
(c) bound	(d) init
(v) The position of SSL in the TCP/IP p	protocol suite is in between http://www.makaut.com
(a) Transport and Internet layer.	(b) Data link and Physical layer.
(c) Application and Transport layer	(d) None of these

Turn O

1.

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(vi) HTTP is a protocol.	
(a) stateless	(b) statefull
(c) Both (a) and (b)	(d) None of these
(vii) In which method URL exposes the data	,
(a) Post	(b) Get
(c) Both Post and Get	(d) All of these
(viii) FORM tag is used in HTML inside	Tae.
(a) Head	(b) Title
(c) Body	(d) Any of these
(ix) Applet is based on the concept of htt	p://www.makaut.com
(a) server push	(b) server pull
(c) client push	(d) client pull
(x) Choose the correct HTML tag for larg	gest heading.
(a) <h6></h6>	(b) Head
(c) <h1></h1>	(d) <heading></heading>
Group - B	
(Short Answer Type Qu	estions)
Answer any three of the f	
What is RMI? Briefly describe RMI architecture.	2+3=5
3/ Explain Cookies. Describe Applet lifecycle. http://w	
4. Distinguish between IPV4 and IPV6. Explain the field H	
5. What is Subnet? A small organization is given a block 205.16.37.24/29. What is the range of the block and how	w many addresses are there in the block? 2+3=3
What do you mean by Anonymous FTP? What is the rea	son for delayed delivery of Email by SMTP? 2+3=5

Group - C

(Long Answer Type Questions)

15×3=45

Answer any three of the following.

Explain the recursive resolution of DNS by a neatly labelled diagram. Describe the remote login process of TelNet.

An organization is granted the block with beginning address 14.24.74.0/24. It needs to have three subnets as: http://www.makaut.com

1st subnet: 120 addresses 2nd subnet: 60 addresses 3rd subnet: 10 addresses

Design the subnets (Find out total number of addresses in the block, length of the subnet id for each subnet, subnet mask for each subnet, range of each subnet).

What is the difference between get and post method? (b) Create a digital clock using java-script.

(c) What is Frame? Explain merits and demerits of frame.

(d) What is DOM?

Create an XML document that contains the name and price per pound of coffee beans:

In your XML document mention all properties of XML declaration.

(ii) The root element has name <coffee_bean>.

(iii) Create nested elements for different types of coffee.

(b) What is well formed XML? http://www.makaut.com

(c) Explain internal and external DTD with example.

8+2+5=15

What is the difference between List and Arrays in perl?

Explain the shift and unshift operator in perl.

What is variable interpolation in perl?

(What is Associate array? http://www.makaut.com

Write a program in perl to calculate factorial of a given number recursively,

3+3+3+3+3=15

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Write short notes on any three of the following: http://www.makaut.com

- UY POP3
- (n) Web Crawler
- (iii) VolP
- (iv) Black Hat SEO techniques
- (v) XHTML