# 2015

### MCA

### 5th SEMESTER EXAMINATION

PAPER-503

Full Marks: 100

Time: 3 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

#### Elective-I

## (INTERNET TECHNOLOGY)

Answer Q. No. 1 and any four from the rest.

1.	An	swer any five questions:	5×2
	(a)	RIP and OSPF is based on and	algorithm.
	(b)	What is trigger update?	
	(c)	What is TTL? What is the maximum hop RIP?	o-count of

(Turn Over)

(d) What is periodic update?

	(e)	What is tag?	
	(f)	What is hyperlink?	
	(g)	What is event? Give two examples.	
2.	(a)	What is CS3? What are the advantage of CSS?	
		2+3	ļ
	(b)	Describe all the CSS measurement unit with prope example.	
	(c)	Describe in detail three properties of a border in CSS	
3.	(a)	What is Cookie? How it works? Write the syntax to	0
		store Cookie? 2+2+3	}
	(á)	What are the advantages and limitations using Java	а
		Script? 2+2	2
	(c)	What is alert box? How it created?	ŀ
4.	(a)	What is the difference between static and dynamic webpage? What do you mean by active webpage?	
		3+2	!

(b) Create an HTML page with the following features:

Hyperlink, Navigation, Button, Tables, Forms.

(c) What is DOCTYPE? Compare Java Technology and Microsoft Technology.

 $1\frac{1}{2} + 1\frac{1}{2}$ 

- 5. (a) Briefly discuss about various types of attack. 6
  - (b) What is Intranets and Extranets? Differentiate both.

3

(c) What is firewall? Describe about various types of firewall. What is the difference between firewall and intrusion detection system.

1+3+2

6. (a) Briefly describe IPV<sub>4</sub> header format.

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- (b) You can given 172.16.0.0 IP address, and you have to create 513 sub-networks
  - (i) What will be the new subnet mask?
  - (ii) What will be the broadcast address of last network?
  - (iii) Maximum how many computer can be connected in a single sub-network?
  - (iv) What is the network address of last network?

2+2+2+2

<ul><li>7. Write shorts note on any three:</li><li>(a) Telnet;</li></ul>	3×5
(a) Telnet;	
(b) FTP;	
(c) URL;	
(d) http;	<i>*</i>
(e) Netstat;	
(f) Traceroute.	
[Internal Assessment]	30
· ————————————————————————————————————	-
(PATTERN RECOGNITION)	•.
Answer any five questions:	5×14
1. Answer any five questions:	5×2
(a) What do you mean by pattern recognition	? Write it
applications.	2+3
(b) Describe the components of pattern r	
system.	5
(c) Write the differences between superv	rised and

2.	(a)	What do you mean by speech recognition?	7
	(b)	Write about the speech recognition system.	5
	(c)	Write the categories of speech recognition system	1.
	٠	Describe template matching procedure. 2+3	3
3.	(a)	Write the differences between Eager and Laz	у
		Learning.	3
	(b)	Give an example of Eager Learner Method.	2
	(c)	What do you mean by Classification?	2
	(d)	Describe K-NN method for Classification.	7
4.	(a)	What is cluster analysis? Write its applications.	
		<b>2+3</b>	3
	(b)	Explain the importance of quality measurement i	
	•	clustering.	4
	(c)	Describe the partitioning approach in clustering.	5
5.	Wr	ite short notes on any four: $4 \times 3\frac{1}{2}$	<u>.</u>
•	(a)	Feature selection;	
	(b)	Feature extraction ;	
	(c)	ANN;	
	(d)	Unsupervised learning;	

		[Internal Assessment]	30
		feature selection techniques?	2+7
	(c)	What is LDA? How LDA use in feature reducti	on and
		feature selection.	2
	(b)	Write the differences between feature reduction	on and
7.	(a)	What is feature reduction?	3
	(c)	Describe syntax parsing.	3
		of a block diagram.	7
	(b)	Explain Syntactic pattern recognition with th	ne help
			4
5.	(a)	What do you mean by syntactic pattern recogn	nition ?
	<b>(f)</b>	Template matching.	
	(e)	Good clustering;	