UG Odd Semester (CBCS) Exam., December—2017

COMPUTER SCIENCE

(5th Semester)

Course No. : MCSCC–501

(Internet Technologies)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, selecting **one** from each Unit

UNIT—I

1. *(a)* Define Internet. Explain distinguishing characteristics of Internet. 2+5=7

(b) Explain various applications of Internet. 5

(c) What is the first Web-based e-mail service? 2

2. *(a)* What is digital signature? 2

(b) What is cyber law? What are the needs for cyber law? 2+5=7

(c) What are the salient features of the Information Technology Act? 5

UNIT—II

3. *(a)* What is e-commerce? 2

(b) Explain the working of payment gateway. 5

(c) What are the advantages of gateway? 5

(d) What is SSL? 2

4. *(a)* What is X-lite? What are the various functions and features of X-lite? 2+7=9

(b) Explain how to place a call using X-lite. 5

UNIT—III

5. *(a)* Explain the various architectures of electronic mail (e-mail). 10

(b) Explain in brief the following : 2+2=4

(i) TOMCAT

(ii) XAM

6. *(a)* Explain IPv4 protocol in detail. 7

(b) Explain the following : 4+3=7

(i) Router technology

(ii) Gateway technology

UNIT—IV

7. *(a)* What is HTML? Explain the page structure of Web design with an example. 2+3=5

(b) What do you mean by empty HTML elements? 2

(c) Write an HTML code to create the following table : 5

Name	*Department*	*Marks*	*Contact No.*
RAM	Math	10%	Mobile/ e-mail ID
SHYAM	History	20%	
RADHA	Hindi	30%	
SITA	English	60%	
RAMESH	Comp. Sc.	15%	

(d) Write an HTML code to create the following unordered nested list : 2

- Coffee
- Tea
  - Black tea
  - Green tea
- Milk

8. *(a)* What are the needs of JavaScript? How can JavaScript change HTML contents? Explain with a suitable code. 2+3=5

(b) Write a JavaScript code to invoke a function when a button is clicked. 2

(c) The elements of Name array are :

Name = ['Pankaj', 'Shahin', 'Rakesh', 'Arindom', 'Nayan', 'Sanju']

Write a JavaScript code to print the output according to the given unordered list : 4

- Pankaj
- Shahin
- Rakesh
- Arindom
- Nayan
- Sanju

(d) Write a JavaScript code to get a weekday as a number between 0 and 6. 3

(Sunday = 0, Monday = 1 .....)

UNIT—V

9. *(a)* What do you mean by CGI? Explain in detail. 7

(b) Give the advantages and disadvantages of MySQL. 4

(c) Discuss the Web database design in brief. 3

10. Write short notes on any *two* of the following : 7×2=14

(a) PHP

(b) Web development tools

(c) SQL schemes

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