2017/EVEN/08/24/MCS–203/
MCS–803/556

PG Even Semester (CBCS) Exam., May—2017

COMPUTER SCIENCE

(2nd Semester / 8th Semester)

Course No. : MCSOC–203 / MCSOC–803

(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)* Explain the MESH and the STAR topology for computer networks with neat diagrams. 5

(b) Explain the architecture of the Internet briefly. 4

(c) Explain the construction and working of LAN and WAN. 5

2. *(a)* Explain various applications of the Internet. 4

(b) What is half-duplex and full-duplex mode of transmission? Explain the advantages of full-duplex transmission. 5

(c) What is hybrid topology? Explain a scheme for hybrid topology. 5

UNIT—II

3. *(a)* State the ideal composition of a website development team. 2

(b) Explain the steps of design and development of a corporate website. 4

(c) What is E-commerce? Explain different means of exchange of business information in E-commerce. 5

(d) How the servers of a corporate website are kept secure and protected from unauthorized users? 3

4. *(a)* What do you mean by client-server computing? How client-server network can be helpful for a corporate website? 5

(b) Explain various business models of E-commerce. 4

(c) Explain security systems for safe E-payments. 5

UNIT—III

5. *(a)* State the similarities and differences between OSI reference model and TCP/IP model. 5

(b) How does information get passed from one layer to the next layer in the OSI model? 5

(c) Define the following : 2+2=4

(i) Internet

(ii) Circuit Switching

6. *(a)* Write a short note on Internetworking devices. 5

(b) Explain how FTP works and show an example of using FTP for retrieving a list of item in a directory. 6

(c) What are the responsibilities of network layer in OSI model? 3

UNIT—IV

7. *(a)* What is ASP? 4

(b) What is ASP file and how does it work? 5+5

8. *(a)* What are the advantages and limitations of JavaScript? 4

(b) What is DHTML? Explain. 5

(c) What is significance of XML? Discuss. 5

UNIT—V

9. *(a)* Discuss different web development tools used in developing a website. 4

(b) What is CGI? Explain the significance of CGI. 5+5

10. *(a)* Discuss various features of MySQL. 4

(b) Write down the different steps involved in website development process. 5

(c) Write a short note on PHP. 5

★ ★ ★