

B.Tech. (Information Technology) Third Semester (C.B.C.S.)
Emerging Trends in Information Technology

P. Pages : 2

Time : Three Hours



PSM/KW/23/2584

Max. Marks : 70

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Due credit will be given to neatness and adequate dimensions.
 8. Assume suitable data whenever necessary.
 9. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain the following **any three**. 9
- i) Internet.
 - ii) Information technology.
 - iii) Need of information storage & processing.
 - iv) Protocols used in internet.
- b) List the different types of modes of data transmission and explain any two. 5
- OR**
2. a) What is topology? Explain different types of topologies with neat diagram. 7
- b) Discuss the following. 7
- i) Computer Ethics
 - ii) Type of networks
3. a) What do you mean by e-commerce? Discuss the advantages & disadvantages of e-commerce. 7
- b) Brief the following: 7
- i) SET protocol.
 - ii) Internet payment systems.

OR

4. a) What do you mean by E-cash and E-check? Discuss them. 7

b) What is e-commerce architecture? Draw & explain the different types of e-commerce architectures. 7

5. a) What do you mean by e-mail? Discuss the security issues related e-mail service. 7

b) Define ISP. Explain the function of ISP & list the types of ISP connections used by the users of internet. 7

OR

6. a) What do you mean by firewall? Explain its need and role of firewall when we use the internet. 7

b) State the difference between virus and antivirus. List the virus and antivirus commonly found. Explain any one type of virus. 7

7. a) Distinguish between InterBanking and IntraBanking. State the advantages of IntraBanking. 7

b) Elaborate the SSL and digital signature used in e-banking as security concern. 7

OR

8. Write short note on: 14
i) ATM
ii) Smart card
iii) ECS

9. a) What do you mean by E-Governance? Explain the different types of E-governance. 7

b) Discuss the challenges & strategies used for implementation of e-governance. 7

OR

10. a) Brief the types of agriculture information needed soil, water & market. How it helps in good crop yield. 7

b) Explain the future trade marketing & Information Kiosk. 7
