

QP Code : 14717**(3 Hours)****[Total Marks : 100**

N.B (1) Question No 1 is compulsory.

(2) Attempt any four questions from remaining six questions.

1. (a) What is E-shopping? What are the advantages and disadvantages of e-shopping? 5
 (b) Once a company has acquired customer, the key to maximizing revenue is keeping them. Explain how e-commerce is helpful in customer retention? 5
 (c) What is EDI? Discuss its layered structure. 5
 (d) What are the key technologies for B2B E-commerce? Explain architectural models of B2B E-commerce. 5
2. (a) What is e-payment? Discuss the functions of E-payment system? Why is orientation and standardization required for e-payment business. 10
 (b) Explain the different steps involved in the development of an e-commerce web site. 10
3. (a) Explain the role and support of E-commerce in the following applications
 i) Travel Agency
 ii) Insurance Sector. 10
 (b) Write about how search engine is useful in E-commerce. 10
4. (a) Briefly describe Secure-Electronics Transaction (SET) protocol and compare SSL and SET. 10
 (b) Discuss the various threats involved in client server communications and how are they encountered in EC business. 10
5. (a) Give suggestions to design electronic based Gift and Flower web site. 10
 (b) Explain the web-auction strategies. 10
6. (a) What is supply chain management? Discuss how it is advantageous to EC. 10
 (b) Write about the major methods of Internet advertisement and discuss how product comparison process can be used as an opportunity of advertisement. 10
7. Write Short notes on following:- 20
 a) E-Governance
 b) What is digital certificate.
 c) Smart cards
 d) Digital or Electronic cash.

ME Sem II ~~CBGS~~
Computer

10/12/14

Sub - I. P.

Q.P. NO : 14720

(3 Hours)

[Total Marks : 100

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Attempt any 4 questions from remaining six questions.
(3) Assume suitable **data** wherever **necessary** and **justify** it.

1. (a) Explain Arithmetic Coding and decoding with an example 10
(b) Give 3 x 3 masks for the following edge extraction operators 5
(i) Sobel (ii) Prewitt
(c) List the different point processing techniques and give their applications 5
2. (a) Write the Hadamard transform matrix of size 8x8. Also sketch the butterfly diagram for Hadamard Transform of 8 X 8 10
(b) What are LOG and DOG? How do you compute them? How are they used? 10
3. Explain the following : 20
(a) Distance Measures
(b) Wavelet transform
(c) Region Growing by pixel aggregation
(d) Co-occurrence Matrix
4. (a) What is a Histogram? What information do we get from the Histogram of an image and can an image be enhanced by processing/modifying it. Explain. Also can successive Histogram processing give better results? justify 10
(b) List and explain the basic Morphological operators with examples. 10
5. (a) Classify Image Compression methods in detail along with the different redundancies that can be present in digital images 10
(b) Compare and contrast uniform and non- uniform Sampling and Quantization 5
(c) Explain Image Averaging. 5
6. (a) Justify/Contradict the following statements 20
(i) Moments are used as a similarity measure in comparison of regions
(ii) Minimum cost algorithm is meant for detection of edges
(iii) The first difference of a chain code normalizes it to rotation
(iv) Laplacian is better than gradient for detection of edges
7. (a) Explain the terms Brightness adaptation and discrimination with reference to human visual system. Also explain the concept of weber ratio. 10
(b) Explain Kronecker product. 5
(c) Give the masks for line detection. 5