E Commerce · B E Comp Sem VII 19/5/14

QP Code : MV-19974

(3 Hours) **[Total Marks : 100**

N.B. : (1) Question no 1is **compulsory.**
(2) Solve any **four** questions out of the **remaining.**
(3) Assume suitable **data** wherever **required.**

1. (a) Differentiate between e commerce and e business. Also state the advantages and disadvantages of e commerce. **10**
   (b) Explain SET protocol for electronic payments. **10**

2. (a) State and explain electronic data Interchange (EDI) in detail. **10**
   (b) Define CRM and hence explain its architecture in detail. **10**

3. (a) Explain different types of web based auctions and explain any one in detail **10**
   (b) Explain the important factors to be considered in server side programming. **10**

4. (a) Explain what is meant by value chain and hence explain the various types of value chain that can be applied to an organization. **10**
   (b) Explain any three types of e- business models used . **10**

5 (a) Explain WAP architecture in detail. **10**
   (b) For launching a new product on the web, explain the strategies for sales and promotions using e commerce site. **10**

6 (a) Explain the complete cycle of credit card transactions. **10**

   (b) Explain the different security measures that can be applied to protect a private intranet from public internet. Further explain the different types of firewalls that can be useful for an ecommerce website. **10**

7. Write short notes on (any **two**):– **20**
   (a) REST
   (b) Virtual communities
   (c) Mobile Agents.

Sem VII COMP. DSIP 23/05/14.

QP Code :**MV-20045**

(3 Hours) [Total Marks :100

N.B. (1) Question no. **1** is **compulsory.**
(2) Attempt any **four** questions out of remaining **six** questions.
(3) **Assume** suitable **data** wherever **necessary and** state them **clearly.**

1. (a) Laplacian is not good edge detector. Justify. 5
   (b) Discuss the properties of Region of Convergence. 5
   (c) Convolution in one domain leads to multiplication in other domain. 5
   (d) Walsh transform is nothing but sequence Orderd Hadamard Transform Matrix Justify. 5

2. (a) Construct improved gray scale quantization code for given level data set. 10
   {100, 110, 124, 124, 130, 200, 210}
   (b) Find the following sequences are periodic or not. If yes, find the fundametal time period. 10
   (i) $x_1(n) = 3\sin(0.01\pi n) + 4\cos(10n)$
   (ii) $x_2(n) = \cos(0.01\pi n)$

3. (a) Determine the system function and unit sample response of the given system described by following difference equation : 10

$$y(n) = \frac{1}{4}y(n-2) + \frac{1}{2}y(n-1) + x(n)$$

   (b) Find cross-correlation between given signals. 5
   $x(n) = \{1, 0, 1, 2\}$
   $y(n) = \{1, 2, 3, 4\}$
   (c) Find auto-correlation of following signal 5
   $x(n) = \{1, 1, 2, 3\}$

4. (a) Compute DFT of the given image using DIT-FFT technique 10

0	1	2	1
1	2	3	2
2	3	4	3
1	2	3	2

   (b) Explain the process of image segmentation using different methods. 10

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