

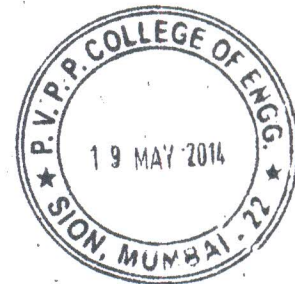
QP Code : MV-19974

(3 Hours)

[ Total Marks : 100

- N.B. :**
- (1) Question no 1 is 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.



Con. 10547-14.

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)  $x_1(n) = 3\sin(0.01\pi n) + 4\cos(10\pi n)$   
 (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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Con. 11581-14.



