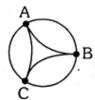


BACHELOR IN COMPUTER APPLICATIONS Term - End Examination December, 2006 CS - 612: PG SOFTWARE SKILLS

Time: 2 hours Maximum Marks: 60

Note: Question number 1 is compulsory. Answer any three questions from the rest.

- I. (a) A certain number of men could do a piece of work in 60 days. If there were 8 more men it could be ' finished in 10 days less. Find the number of men that were there in the beginning. (6)
- (b) Differentiate between the different text functions by giving examples:(9)
- (i) CHAR & CODE
- (ii) FIND & SEARCH
- (iii) UPPER & LOWER
- (c) Using an example write down the steps that are to be followed to send an e-mail by selecting the address from the address book. (3)
- (d) Prove that for any positive integer n, is $3^{4n} 4^{3n}$ always divisible by 17 . (5)
- (e) Explain the use of the following Internet tools: (6)
- (i) Multicast Backbone
- (ii) Finger
- (iii) Internet Relay Chat
- (f) Do you think that the graph shown below has 'Eulerian walk or not? Give reason in support of your answer. (3)



- 2 (a) Explain whether for a prime number p > = 5, $p^2 + 5$ is composite or not.
 - (5)

(b) Write a short note on Gopher.



D.

(c) Briefly discuss who governs the Internet.	(2)
3. (a) Explain the use of the following functions with example:	
(i) EXACT() (ii) RAND() (iii) ABS() (iv) SUMIF()	
(b) Find the least square number exactly divisible by 8, 12, 15 and 20.	(2)
4. (a) Explain any four top level domain names .	(2)
(b) Explain the use of Auto filters and Advanced filters in MS-EXCEL with example.	(5)
(c) Write the purpose of the following protocols:	(3)
(i) FTP (ii) TELNET (iii) HTTP	
5. (a) Explain what is firewall. Describe the role of firewall in protecting network from hackers.	(5)
(b) The sum of four numbers A, B, C and D is 110. C is twice A, sum of A and D is equal to that of B and C and A: B is 3:5. Find the value of A, B, C and	