Department of Computer Science and Engineering

VSSUT, BURLA

Mid semester Examination

INTERNET AND WEB PROGRAMMIMNG

B.Tech, 7th (CSE and IT) Semester

Full Mark: 20

Time: 2:00hr Note: Question number one is compulsory and any three from rest. If any data is missing, then assume yourself. [5X1] a) Explain the general form of an URL? X. b) What are the uses of web page editors? c) Write HTML code for numbered and bullet list in web page? d) Compare HTML and DHTML? e) Write the HTML code for creating multiline text box with necessary parameters? a) Differentiate TCP/IP and UDP. With a complete example, explain about how a [2X2.5] 2. client server application is implemented using UDP? 1 b) Explain frames and table tags of HTML, with suitable examples. a) Write an external cascading style sheet to define the font, font colour, [2X2.5] 3. background and foreground colours and various table tag properties. Also use the CSS to design a web page with tables. b) Write JavaScript to validate a form consisting of Name, Age, Address, Gender (radio button), state and country (Drop and down menu). a) Using a JavaScript create a Web Page, using two images files, which switch [2X2.5] 4. between one another as the mouse click over the images. b) Develop a HTML page which accepts, any mathematical expression and evaluate the expression and display result of the evaluation. 5. a) Write HTML code to design a form as [2X2.5] shown in the figure. The entire form Name Branch will be reset when user click on reset Date of Birth button and all the fields are mandatory. Course Mobile No. b) What is JavaScript? Explain Server side JavaScript and Client side Java for O Male O Female DHTML. Regural student Dayscholar SC/ST Category Reset Save 6. Short Notes on(ANY TWO):-[2X2.5] a) OSI Model Vs TCP/IP Model **b)** Transmission Infrastructure.

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c) CSS



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA, ORISSA

Mid Semester Examination - 2018

Semester – 7th Time – 2 Hours Subject: ERTS

Branch – CSE Full Mark – 20 Subject Code: CS15-017

Question no. 1 is compulsory. Answer any three questions from rest.

 Q.1. Answer the following questions a) What is the significance of watchdog timer in embedded system? b) Define reentrant function and its characteristics with an example. c) Describe the priority inheritance protocol. d) What is interrupt latency and how to reduce it? e) Define and differentiate mutex lock and spin lock. 	L x 5 = 5]
Q.2.	[3 x 5 = 15]
a) Describe the various architecture types applicable to embedded system. b) What is mutual exclusion and how can it be achieved in an embedded system.	[3]
Q.3.	[-]
 a) What is IPC? Name the different mechanisms provided by OS for IPC and comparison those mechanisms. b) Explain the Dining Philosophers problem with an example. 	[3]
Q.4.	[2]
 a) What is an interrupt and differentiate between the various interrupt types. What is provide a brief overview of the rules followed by ISR in RTOS? b) Explain dynamic address relocation with an example. 	an ISR and
with an example.	
.5. What is a semaphore? Describe its variants and their usage.	[2]

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA B.Tech. 7th Sem CSE,

MID SEMESTER EXAMINATION, October 2018

Entrepreneurship

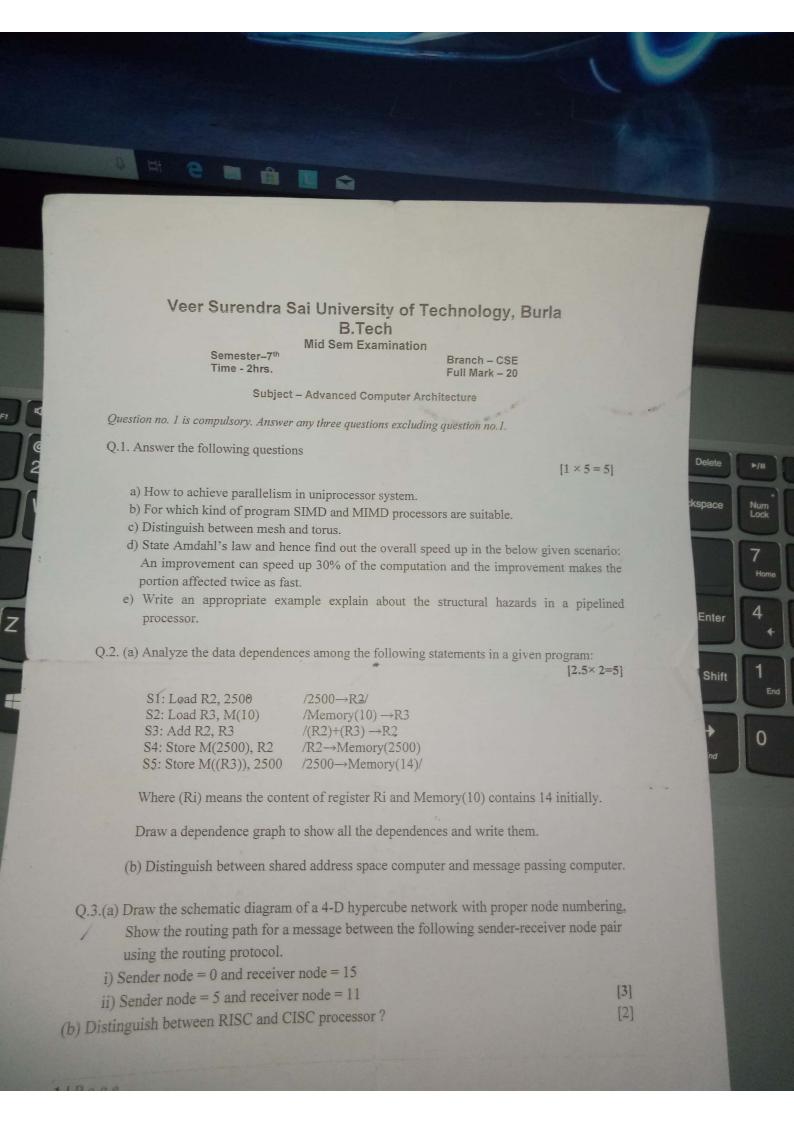
Time: 2 hrs Full Marks: 20

[Answer all questions]

1	. (a) What are the four important characteristics of an Entrepreneur? [1X5]
1	(b) Why is it important for entrepreneurs to develop financial plans for their companies
	(c) How can it be argued that it is a good idea for students to launch businesses while still in college?
	(d) Why is it important for entrepreneurs to develop financial plans for their companies?(e) How easy or difficult is it to start a small business?
	(a) Entrepreneurship is not buying and selling. Discuss ?

- (a) Entrepreneurship is not buying and selling. Discuss? [2]

 (b) What do you mean by Business Plan? What are the components and steps of
 - preparing a Business Plan? What are the components and steps of [3]
- (a) What are EDIs and Name two EDIs in India? What are the functions of EDI? [1+2](b) What are the causes of insufficient development of Entrepreneurial Classes in India?
- 4. Generate a Business Idea for solution to any local problem in VSSUT? Prepare a Business Plan for your idea with the Business Model with expected budget estimate for investment as Capital and revenue generation?
 [5]



(b) Explain the disadvantages of two-state machine in dynamic branch prediction Q.6.(a) Your company has just bought a new Intel core i7 dual core processor and you have been Q.4.(a) Draw the schematic diagram of a 8 input and output omega network with proper node Q.5.(a) Define and explain Bernstein conditions? IV. Given that 99% of the second application is parallelizable, how much overall system III. Given that 40% of the first application is parallelizable, how much overall system speed II. Given that 99% of the second application is parallelizable, how much speed up would I. Given that 40% of the first application is parallelizable, how much speed up would you speed up would you observe if you parallelized it? up would you observe if you parallelized it? you achieve with the application if run in isolation? (b) Explain the cross bar switch interconnection network achieve with the application if run in isclation? (b) Show the perfect shuffle and inverse perfect shuffle. ii) Sender node = 0 and receiver node = 7 i) Sender node = 7 and receiver node = 2 when you parallelize a portion of the program, the speed up for that portion is 2. requires 80% of the resources and the other only 20% of the resources. Assume that on this dual core, but the resource requirement are not equal. The first application numbering. Show the routing path for a message between the following sender-receiver tasked with optimizing your software for this processor. You will run two applications [2.5×2] [2]

VSS University of Technology, Burla

Mid Sem Examination

Semester - 7th Time - 2hrs. Branch - CSE Full Mark - 20

Subject - Data Mining

Question no. 1 is compulsory. Answer any three questions excluding question no.1.

Q.1. Answer the following questions

 $[1 \times 5 = 5]$

- (i) Briefly outline how to compute the dissimilarity between objects for nominal attributes.
- (ii) Explain the min-max normalization with an example.
- (iii) Define the term confidence with respect to support count.
- (iv) How to calculate the accuracy and sensitivity value from a confusion matrix. Explain with an example.
- (v) Explain the k-fold cross validation method.
- Q.2. Consider the transactions below. If minimum support is 40%, (a) determine the frequent itemsets using the FP-Tree algorithm. (b) Determine the association rules considering minimum confidence of 60%. While determining the association rules only consider the frequent 3-itemsets and frequent 4-itemsets (if any).

Transactions	Items
T1	Bread, Jam, Milk, Butter
T2	Bread, Milk, Butter, Ketchup
T3	Jam, Milk, Ketchup
T4	Bread, Jam, Milk, Butter
T5	Jam, Milk
	Jam, Milk, Butter
T6	Jam, Wilk, Batter

Q.3. Build a Decision Tree for classification using the training data in the table given below. Divide the Height attribute into 3 ranges as follows: Less than 1.6, 1.6-1.8, Greater than 1.8 [5]

Height	Class
1.58	Tall
1.58	Medium
1.7	Medium
1.65	Tall
1.85	Tall
1.4	Short
1.4	Short
1.7	Medium
1.75	Tall
1.82	Tall
1.6	Tall
	1.58 1.58 1.7 1.65 1.85 1.4 1.4 1.7 1.75

We wish to train a multilayer perceptron (MLP) with the truth table of an OR gate. Consider this MLP has We wish to train a multilayer perceptron (MLP) with the truth to the OR gate. Consider this MLP has 2 units in the input layer (corresponding to two inputs of the OR gate), 2 units in the hidden layer and 1 corresponds class 0 and the other unit represents class 1). 2 units in the input layer (corresponding to two inputs of the other unit represents class 1). Consider that units in the output layer (one unit represents class 0 and the other unit represents class 1). Will be units in the output layer (one unit represents class 0 and the other unit represents class 1). Will be units in the output layer weights are initially set as follows: w11=0.4, w12=0.1 units in the output layer (one unit represents class 0 and the other was with the output layer (one unit represents class 0 and the other was with the output layer weights are initially set as follows: W11=0.4, w12=0.1, w21=0.2 and the output layer weights are initially set as follows: W11=0.2 was the input layer to hidden layer weights are initially set as follows: W11=0.1, w21=0.2 and w22=0.3. Hidden layer to the output layer weights are initially set as follows: W11=0.2, W12=0.2, w22=0.3. Hidden layer to the output layer weights are functions for the hidden layer units as well as the W21=0.1 and W22=0.1. Consider that the transfer functions that the input layer units transfer that the many follows: $\frac{1}{2}$ W21=0.1 and W22=0.1. Consider that the transfer function Assume that the input layer units as well as the output layer units are as follows: = $\frac{1}{(1 + e^{-l})}$. Consider all the bias at the hidden layer. output layer units are as follows: = $-/(1 + e^{-1})$ output layer units are as follows: = $-/(1 + e^{-1})$ without any change and learning rate = 0.5. Consider all the bias at the hidden layer is 0.4 and output

Determine the new weights after an input pattern (1 0) is given as the training data. The expected [2.5]

(a) Discuss issues to be considered during data integration. output is 1. [2.5]

(b) Describe the different methods for data cleaning. (a) What is data mining? With a neat diagram, explain the steps involved in KDD. [2.5]

(b) Suppose the data analysis includes the attribute age. The age values for the data tuples are (b) Suppose the data analysis includes are 13, 15, 16,16, 19, 20, 20, 21, 22, 25, 25, 25, 25, 30, 33, 33, 35, 35, 35, 35, 36, 40, 45, 46, 52, 9,5.

70. [1] (i) Give the five number summary of the data. [1.5] (ii) Show box plot of the data.

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