

MONAD UNIVERSITY
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245101
Tehsil Hapur (U.P), India

Course: BTCS-212 (Data Structures Using - C)
Assignment No: 2
Due date of submission: 10.11.2016

Instructions:

- 1. Write the responses to the assignment in your own handwriting.**
- 2. Submit the responses to your HOD within the due date.**
- 3. Write your name, programme and enrollment number clearly at the top of the Pages.**

Q.1

a) What do you understand by Data Structure? Explain its types briefly.

Find the value of following:

1. $\lfloor 7.6 \rfloor, \lfloor -7.6 \rfloor, \lfloor 6 \rfloor, \lfloor -6 \rfloor$
 2. $\lceil 7.6 \rceil, \lceil -7.6 \rceil, \lceil 6 \rceil, \lceil -6 \rceil$
 3. $2468 \bmod 9, -49 \bmod 5$
 4. $15!/16!, 8!, \lfloor 3-8 \rfloor, \lceil -3+8 \rceil, \lfloor -3-8 \rfloor, \lfloor \log_2 10000 \rfloor$
- b) Explain multidimensional Arrays. What are the types of their representation? Discuss each with proper example. Also write a C program that calculates the product of two matrix.

Q.2

a)

1. Explain the data structure Stack and Queue. Also the operations performed on them with suitable example of each.
2. Consider the arithmetic infix expression, P:
$$P: 6 * (9 + 7) / 2 - 4 * (6 + 8 / 4)$$
 1. Translate P into its equivalent postfix expression.
 2. Evaluate the above translated postfix expression using Stack.

b) Write short notes on the following:

1. Doubly Linked List and Circular Linked List
2. Dequeue and Priority Queue
3. Circular Queue

Monad University, Hapur

B.Tech.(CS/IT)

Semester – III

Assignment No: 2

CODE: BTCS-215 (Web Technology)

Submission Date: 10 November 2016

Instructions:

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Question 1

- Explain the Event in java with example?
- Explain XML with the DTD.

Question 2

- What is server side scripting language? Explain the data types and control statement in PHP.
- How to install web server wamp for PHP? Explain the process step-by-step.

Course: EEM-236, ENGINEERING MATHEMATICS-III (All Branch)

Assignment No. 2

Due date of submission: 10/11/2016

Instructions

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4. Each question's part carries 5 marks.

Q.1

a) Prove $\Delta \nabla = \Delta - \nabla$

b) Find the root of $(17)^{\frac{1}{3}}$ correct upto three decimal places.

Q.2

a) If θ be the acute angle between to the two regression lines in the case of two variable x and y. Show that

$$\tan \theta = \frac{1-r^2}{r} \frac{\sigma_x \sigma_y}{\sigma_x^2 + \sigma_y^2}$$

b) A sample of 100 dry cells tested to find the length of life produced the following results: $\bar{x} = 12$ hours, $\sigma = 3$ hours

Assuming the data to be normally distributed, what percentage of battery cells are expected to have life-

- (i) More than 15 hours
- (ii) Less than 6 hours
- (iii) Between 10 and 14 hours?

MONAD UNIVERSITY
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245101
Tehsil Hapur (U.P), India
E.C Department

Course: Digital Logic Design
Assignment No: 2
Due date of submission: 10.11.2016

Instructions:

1. Write the responses to the assignment in your own handwriting.
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Q.1

a) (I) Plot Boolean expression on Karnaugh map;

(i) $Y = (\bar{A} + B + C + \bar{D})(A + \bar{B} + \bar{C} + D)(A + B + \bar{C} + \bar{D})(A + B + C + D)$

(ii) $Y = \bar{A}BC\bar{D} + A\bar{B}C\bar{D} + \bar{A}BCD + A\bar{B}CD + ABC\bar{D}$

(II) Reduce the following function using K- map technique

(i) $f(A,B,C,D) = \sum m (0,1,4,8,9,10)$

(ii) $f(A,B,C,D) = \prod M (0,2,3,8,9,12,13,15)$

b) (i) Design a logic circuit to convert the 8421 BCD to Excess-3 code.

(ii) What do you mean by half- adder and full- adder? Implement full-adder using half-adder?

(iii) Compare between combinational and sequential circuits.

Q.2

a) (i) What is race around condition? Explain the operation of JK flip-flop with truth table.

(ii) Draw and explain the operation of T flip- flop.

b) (i) What is counter? Compare synchronous and asynchronous counters.

(ii) What is multiplexer? Design 16:1 multiplexer using 4:1 multiplexers.

Course: EIS 235, Industrial Sociology (All Branch)

Assignment No: 2

Due date of submission: 10/11/2016

Instructions

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3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

- (a) Define Indian Industrial Policy 1948.
- (b) Describe 1956 Industrial Policy Resolution.

Q.2

- (a) Describe Grievance Handling Procedure.
- (b) Explain Bipartite and Tripartite Agreement.



MONAD UNIVERSITY HAPUR (UP)

Course: B.Tech

Subject Name: Discrete Mathematics

Assignment No: 2

Due date of submission: 10.11.2016

Instruction

1. Write the responses to the assignment in your own handwriting.
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3. Write your Name, Program me, and Enrolment No. clearly at the top of the page.

Q.1.

- (a) Define adjacency matrix with example.
- (b) Explain bipartite graph with example.

Q.2

- (a) Write about minimum spanning tree.
- (b) A graph G has a spanning tree if and only if G is connected.

Course: Fundamental of Value Education in Profession

Program: B.Tech III Sem (ME/CS-IT/AG)

Submission Date: 05 November 2016

Assignment No - 2

Instructions:

- 1. Write the assignment in your own handwriting.**
- 2. Submit assignment to your HOD within given time.**
- 3. Write your name , programme and enrollment number clearly at the top of the Pages**

Q.1

- (a) Evaluate the meaning of 'Respect'.
- (b) Evaluate Right Understanding in relationship.

Q.2

- (a) Give your views on 'Sanyam' and 'Swasthya'.
- (b) Make a note on 'Truth' and 'Responsibility'.