



MONAD UNIVERSITY, HAPUR (UP)

Programme: BCA

Semester: II

Course: BCA-121 DBMS

Assignment No: 2

Due date of submission: 22.04.2019

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 Enrolment No. clearly at the top of the page.

Q1 (a): What is DBMS Architecture and explain DBMS schema.

(b): Define Relational Algebra in detail and describe type of command.

Q2 (a): Explain the term ACID with example.

(b): Define term generalization and explain difference between generalization and Aggregation?



MONAD UNIVERSITY, HAPUR (UP)

Programme: BCA

Semester: II

Course: BCA-122 Data Structure using c

Assignment No: 2

Due date of submission: 22.04.2019

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Q1 (a): What is stack? Explain it with diagram and its operations.

(b): What is queue? Explain it with diagram

Q2 (a): Define pointer with example?

(b): What is function with example?



MONAD UNIVERSITY, HAPUR (UP)

Programme: BCA

Semester: II

Course: BCA-123 Computer Communication Network

Assignment No: 2

Due date of submission: 22.04.2019

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Q1 (a): Define piggybacking?

(b): What is data link layer? And explain function of layer .

Q2 (a): Describe Transmission Mode? and explain any one example in detail.

(b): What do you understand by TCP/IP Model.



MONAD UNIVERSITY, HAPUR (UP)

Programme: BCA

Semester: II

Course: BCA-124 Digital Electronics and Computer Organization

Assignment No: 2

Due date of submission: 22.04.2019

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Q1: (a) What are logic gates? Explain in detail with truth table and logic diagram.

(b) Describe the Demorgan's laws in detail.

Q2: (a) Describe 3*8 line decoder with the help of logic diagram and truth table.

(b) What is K-Map? Explain with the help of any example.



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Programme: BCA

Semester: II

Course: BCA-125 Mathematics-II

Assignment No: 2

Due date of submission: 22.04.2019

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Q.1

- (a) As you are aware of the Maclaurin's series, state the Maclaurin's series expansion of a function with Lagrange's form of remainder after n terms, Using this find the expansion of $\log(1+x)$ upto four terms.

$$\sin^{-1} x = x - \frac{x^3}{6} + \frac{x^5}{120} - \frac{x^7}{5040} + \dots$$

- (b) Expand E^{-x} by Maclaurin's series and find the general term.

Q2.

- (a) As you are aware of maxima and minima, discuss the maximum or minimum values of $U = X^3 Y^2 (1 - X - Y)$.

- (b) Find the existence of $\lim_{X \rightarrow 0} X^3 + Y^3$.



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Semester: II

Course: MC-121-EVS

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Q.1(a) : What is environmental science?

(b) : What is the role of Air in environment?

Q2 (a): What are main differences between living and non living organisms?

(b): How we get Vitamin-D from environment explain it ?