# ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD

ECHELON
TRANSFORMING THE EDUCATION

Roll No. .....................

**Second Sessional Test, November- 2024**
**BCADS-V Semester**
**Management Information System (GS-7)**

[Max Marks: 30]

**Time: 120 Minutes**

**Instructions:**
1. Question No. 1. It is compulsory.
2. Answer any two questions from PART-B.
3. Different sub-parts of a question are to be attempted adjacent to each other.

**CO- 3** Translate the role of information systems in organizations, the strategic management processes, with the implications for the management

**CO-4** Apply the understanding of how various information systems like DBMS work together to accomplish the information objectives of an organization

## PART-A

| Q.N. | | Question | Course Outcomes | Revised Bloom Taxonomy Level | Marks |
|---|---|---|---|---|---|
| 1. | i | What are the primary sources of information in conceptual system design? | CO-3 | RBTL-1 | 1 |
| | ii | Why is it important to document the system concept in MIS development? | CO-3 | RBTL-2 | 1 |
| | iii | Define the role of procedures in MIS implementation. | CO-4 | RBTL-1 | 1 |
| | iv | Define system cut-over in MIS implementation. | CO-4 | RBTL-1 | 1 |
| | v | Explain how improper planning lead to pitfalls in MIS development. | CO-4 | RBTL-2 | 1 |
| | vi | Explain the significance of system evaluation in the MIS lifecycle. | CO-4 | RBTL-2 | 1 |
| | vii | Describe constraints that affect system development. | CO-3 | RBTL-1 | 1 |
| | viii | Discuss the role of a conceptual design report in MIS development. | CO-3 | RBTL-2 | 1 |
| | ix | List some critical components involved in MIS evaluation. | CO-4 | RBTL-1 | 1 |
| | x | Compare conceptual design report with the technical report. | CO-3 | RBTL-2 | 1 |

## PART-B

| Q.N. | Question | Course Outcomes | Revised Bloom Taxonomy Level | Marks |
|---|---|---|---|---|
| 2. | (a) Outline the constraints that an organization might face while developing an MIS for financial accounting. | CO- 3 | RBTL-2 | 5 |
| | (a) Why is control and maintenance of MIS critical for its long-term success? | CO- 4 | RBTL-1 | 5 |
| 3. | (c) What is a conceptual design report and why is it important? | CO- 3 | RBTL-2 | 5 |
| | (b) Identify the common pitfalls in MIS development and apply real-world examples to explain fundamental weaknesses and soft spots in planning. | CO- 4 | RBTL-3 | 5 |
| 4. | (a) Write a summary section for a conceptual design report of a hospital management ent system using predefined guidelines. | CO- 3 | RBTL-3 | 5 |
| | (b) Describe the common design and implementation issues in MIS development and explain how these issues can be mitigated. | CO- 4 | RBTL-3 | 5 |

Second Sessional .st, November- 2024
BCA (DS) :ᵀᴴ Semester
Organization Behavior
BCA –DS 503

**Time: 120 Minutes**

[Max Marks: 30

**Instructions:**

1. All questions are compulsory.
2. Different sub-parts of a question are to be attempted adjacent to each other.

CO- 3 students will be able to understand the managerial concepts in practical life
CO-4 students will be able to understand the organizational culture and change

## PART-A

| Q.N. | | Question | Course Outcomes | Bloom Taxonomy Level | Marks |
|---|---|---|---|---|---|
| 1. | i | Explain the significance of group cohesiveness. | CO-3 | RBTL-1 | 1 |
| | ii | Interpret the Intra group conflict in the organization. | CO-3 | RBTL-2 | 1 |
| | iii | Show the structure of the team. | CO-3 | RBTL-1 | 1 |
| | iv | Compare leadership and motivation in the organization. | CO-3 | RBTL-2 | 1 |
| | v | Illustrate the role of the team building in the organization. | CO-3 | RBTL-2 | 1 |
| | vi | Demonstrate the role of the organization development. | CO-4 | RBTL-2 | 1 |
| | vii | List any two middle level job profile in the organization. | CO-4 | RBTL-1 | 1 |
| | viii | Compare Team vs group in organization. | CO-4 | RBTL-2 | 1 |
| | ix | State any two causes of the resistance to change. | CO-4 | RBTL-1 | 1 |
| | x | What is organization development ? | CO-4 | RBTL-1 | 1 |

## PART-B

| Q.N. | | Question | Course Outcomes | Bloom Taxonomy Level | Marks |
|---|---|---|---|---|---|
| 2. | (a) | Explain in detail the process of the group. | CO- 3 | RBTL-2 | 5 |
| | (b) | Illustrate the structures of the organization with examples. | CO- 4 | RBTL- 3 | 5 |
| 3. | (a) | Develop any two plans for the solving conflicts in the organization. | CO- 3 | RBTL-2 | 5 |
| | (b) | List down the Important areas to implement the change in organization. | CO- 4 | RBTL-3 | 5 |
| 4. | (a) | Examine the relationship of the power with the politics in the organization. | CO- 3 | RBTL-2 | 5 |
| | (b) | Discuss the role of the organization culture and climate. | CO- 4 | RBTL- 3 | 5 |

Roll No. ......................

Second Sessional Tes., November- 2024
BCA DS 5TH Semester
Intellectual Property Right (BCA-DS-304)

Time: 120 Minutes

[Max Marks: 30]

**Instructions:**

1. Question No. 1. It is compulsory.
2. Answer any two questions from PART-B.

CO-3 Understand the professional program in Company Secretaryship, Law, Business (M.B. ) International Affairs, Public Administration and other fields.
CO-4 Understand the concept of establishment of Legal Consultancy and Service provider.

**PART-A**

| Q.N. | | Question | Course Outcomes | Revised Bloom Taxonomy Level | Marks |
|---|---|---|---|---|---|
| 1. | i | Define the difference between principal claims and dependent claims in a patent application. | CO-3 | RBTL-1 | 1 |
| | ii | Under what circumstances can a compulsory license be granted for a patented invention. | CO-3 | RBTL-1 | 1 |
| | iii | Briefly differentiate between contributory infringement and induced infringement in copyright law. | CO-3 | RBTL-2 | 1 |
| | iv | Explain Revocation of Patent. | CO-3 | RBTL-2 | 1 |
| | v | Role of injunctions in the Event of Patent Infringement. | CO-3 | RBTL-1 | 1 |
| | vi | Explain compulsory licensing. | CO-4 | RBTL-2 | 1 |
| | vii | Write short note on Failure to Mark. | CO-4 | RBTL-1 | 1 |
| | viii | Define First Sale Doctrine. | CO-4 | RBTL-1 | 1 |
| | ix | Write one significance of patent registration. | CO-4 | RBTL-1 | 1 |
| | x | Explain misuse in context of IPR. | CO-4 | RBTL-2 | 1 |

**PART-B**

| Q.N. | Question | Course Outcomes | Revised Bloom Taxonomy Level | Marks |
|---|---|---|---|---|
| 2. | (a) Explain the key features of Protection of plant varieties and Farmers, Right Act, 2001. | CO-3 | RBTL-2 | 5 |
| | (b) What does the term "Sealing of Patents" mean in the context of patent law, and what is its significance for the applicant? | CO-4 | RBTL-1 | 5 |
| 3. | (a) Explain the Various Functions of the Indian Patent Office. | CO-3 | RBTL-2 | 5 |
| | (b) Define "Invalidity" in the context of patent law. | CO-4 | RBTL-1 | 5 |
| 4. | (a) Discuss the ethical and legal considerations involved in the patenting of micro-organisms. Analyse the case of the "Diamond vs Chakrabarty" ruling and its implications for biotechnological innovation. | CO-3 | RBTL-2 | 5 |
| | (b) Difference between provisional & Complete patent. | CO-4 | RBTL-2 | 5 |

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**Instructions:**
1. Question No. 1. It is compulsory.
2. Answer any two questions from PART-B.
3. Different sub-parts of a question are to be attempted adjacent to each other.

CO-1 Explain different unsupervised learning techniques and their applications.
CO-2 Describe Bayesian learning and its application in classification methods.

## PART-A

| Q.N. | | Question | Course Outcomes | Revised Bloom Taxonomy Level | Marks |
|------|---|----------|-----------------|------------------------------|-------|
| 1. | i | Explain Kernel K-means. | CO-3 | RBTL-2 | 1 |
| | ii | Explain significance of vector quantization in clustering. | CO-3 | RBTL-2 | 1 |
| | iii | Describe the concept of a Self-Organizing Feature Map. | CO-3 | RBTL-1 | 1 |
| | iv | List one major difference between clustering and classification. | CO-3 | RBTL-2 | 1 |
| | v | Discuss one use of regression in Machine Learning. | CO-3 | RBTL-1 | 1 |
| | vi | Mention any two recent techniques in Machine Learning. *RL , SSL Rejon ,* | CO-4 | RBTL-1 | 1 |
| | vii | How scalability play vital role in Machine Learning? | CO-4 | RBTL-2 | 1 |
| | viii | What is inferencing in Bayesian Learning? | CO-4 | RBTL-1 | 1 |
| | ix | Define Association rule mining in machine learning. | CO-4 | RBTL-2 | 1 |
| | x | List two applications of Bayesian Learning. | CO-4 | RBTL-1 | 1 |

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## PART-B

| Q.N. | Question | Course Outcomes | Bloom Taxonomy Level | Marks |
|------|----------|-----------------|----------------------|-------|
| 2. | (a) Explain the Apriori algorithm and provide an example of its application. | CO-3 | RBTL-2 | 5 |
| | (b) What are support vector machines? Why do we need to use SVM? How do SVM work? List any two kernel functions. | CO-4 | RBTL-1 | 5 |
| 3. | (a) Discuss different types of learning in neural network with example. | CO-3 | RBTL-2 | 5 |
| | (b) What are Self organizing maps? Explain Unsupervised learning of clusters in detail with example. | CO-4 | RBTL-1 | 5 |
| 4. | (a) Describe the K-means clustering algorithm with an example. | CO-3 | RBTL-1 | 5 |
| | (b) Distinguish between bagging and boosting | CO-4 | RBTL-2 | 5 |