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THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(CUFYUGP)

CSC3MN207 - EMERGING TRENDS IN COMPUTER SCIENCE

2024 Admission onwards

Maximum Time: 2 Hours	Maximum Marks: 70

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)

1	Define Artificial Intelligence and list two of its real-world applications.
2	What is supervised learning? Give one example.
3	Explain any two challenges in blockchain adoption.
4	Define cryptography and mention its main types.
5	What are the different types of computer networks?
6	Write short notes on PaaS and SaaS.
7	What are the main components of IoT architecture?
8	Distinguish between structured and unstructured databases.
9	Define NoSQL and mention its types.
10	What are graph databases? Mention one application.

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)

11	Discuss the machine learning process with appropriate steps.
12	Explain various types of machine learning with examples.
13	Describe the key features of blockchain technology.
14	Discuss the applications of blockchain in financial services and smart contracts.
15	Explain different types of cloud computing services with examples.
16	Illustrate the architecture and key characteristics of IoT.
17	Describe different types of NoSQL databases.
18	Write a short note on cloud-based database services and their benefits.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Explain in detail the applications of machine learning in healthcare, finance, and robotics.
20	Discuss in detail the history, features, and challenges in blockchain technology.