SARASWAT EDUCATION SOCIETY'S
SRIDORA CACULO COLLEGE OF COMMERCE & MANAGEMENT STUDIES
KHORLIM, MAPUSA, GOA

B.Com – Honors / B.Com - General (NEP 20, w. e. f. 2023-24)

F.Y. B.COM. SEMESTER END ASSESSMENT, OCT/NOV, 2026

THEORY - REGULAR ODD SEMESTER I EXAMINATION

Subject:- EMERGING TRENDS IN COMPUTER (MC CSC-131) M.Marks:- 60
Credit : - 03 Duration:- 2 hrs.

Instructions:
i) Number of printed pages is 2
ii) All questions are compulsory and figures to the right indicate full marks.
iii) Questions of 2 marks to be answered in not more than 40 words.
iv) Questions of 3 marks to be answered in not more than 60 words.
v) Questions of 5 marks to be answered in not more than 100 words.

Q.1) Answer the following briefly: (6 x 2 Marks)
i) Define Narrow and Weak AI.
ii) Define cryptocurrency.
iii) What is a real-time system?
iv) Define Business Intelligence.
v) What is a smart contract?
vi) What are the main pros of cloud computing?

Q.2 A) i) List 3 main components of a microcontroller. (3)
ii) What is Bitcoin mining? (2)

OR

Q.2 A) iii) What is the difference between general processors in computers and embedded processors? (3)
iv) List four key characteristics of Blockchain (2)

Q.2 B) i) Define Big Data and describe its main characteristics (5)
ii) List one application of AI in everyday life. (2)

Q.3 A) i) List the main characteristics of IoT and explain how these help IoT devices work. (3)
ii) How does Saas and PaaS help in software development (2)

OR

Q.3 A) iii) What is an embedded system? Explain its importance in common devices, and give one simple example. (3)
iv) Describe two important elements of a blockchain and how they contribute to its functioning. (2)

Q.3 B) i) Summarize the key stages of the Business Intelligence (BI) process and explain how they contribute to decision-making in businesses. (5)
ii) Explain how NLP enhances communication between humans and machines (2)

Q.4A) i) Explain types of consensus protocols in blockchain technology, explain the need for each. (3)

ii) How does SaaS (Software as a Service) help users avoid hardware maintenance? (2)

OR

Q.4 A) iii) What are Public and Private Blockchains, briefly explain the purpose of each. (3)

iv) Explain how Proof Burn lets a user gain the right to mine or validate transactions (2)

Q.4 B) i) Draw and Explain NIST Cloud Architecture and its stakeholders (5)

ii) How does a blockchain ensure that data cannot be altered? (2)

Q.5 A) i) If you were to create a smart home system using IoT devices, what three devices would you include, and how would they work together to improve convenience? (3)

ii) Using your understanding of Machine Learning (ML), describe how a recommendation system for an online store can be implemented. (2)

OR

Q.5 A) iii) How can IoT devices help in agriculture? Give an example of an IoT application that benefits farmers. (3)

iv) In what way can Business Intelligence (BI) help a retail store increase its sales? Provide a brief example. (2)

Q.5 B) i) A business wants to optimize its data storage by migrating to the cloud. Based on your knowledge of cloud service models, which model (SaaS,IaaS or PaaS) would you recommend a healthcare provider with strict data privacy regulations, and why? (5)

ii) Describe a situation where a microcontroller could be used to automate a simple task in a household appliance. (2)