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MCA
(SEM I) THEORY EXAMINATION 2024-25

FUNDAMENTAL OF COMPUTERS & EMERGING TECHNOLOGIES

TIME: 3 HRS

M.MARKS: 100

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt all questions in brief. 2 x 10 = 20

Q no.	Question	CO	Level
a.	Define computer.	1	1/F
b.	Explain primary memory.	1	2/C
c.	Discuss WWW.	2	2/C
d.	Demonstrate Pseudocode to find the greatest of two numbers	2	3/P
e.	Restate the timesharing operating system.	3	2/C
f.	Discuss about GUI based operating system	3	2/C
g.	Explain the application areas of blockchain technology	4	2/C
h.	Elaborate IOT.	4	2/C
i.	Elaborate big data analytics.	5	2/C
j.	Discuss quantum computing.	5	2/C

SECTION B

2. Attempt any three of the following: 10 x 3 = 30

Q no.	Question	CO	Level
a.	Differentiate between compiler and Interpreter.	1	2/C
b.	Briefly explain WAN.	2	2/C2
c.	Describe the intranet briefly.	3	2/C
d.	Distinguish between IaaS, PaaS, and SaaS.	4	2/C
e.	Explain about grid computing.	5	2/C

SECTION C

3. Attempt any one part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	Explain about output devices and input devices in detail.	1	2/C
b.	Describe the role of software in a computer system and provide examples of different types of software.	1	2/C

4. Attempt any one part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	Discuss network topologies in detail.	2	2/C
b.	Describe the role of the operating system in a computer.	2	2/C

5. Attempt any one part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	Classify different types of Sensors in IOT.	3	2/C
b.	Construct the architecture of the internet in detail.	3	2/C



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6. Attempt any one part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	Explain application area fundamentals of blockchain.	4	2/C
b.	Discuss the architecture of cloud computing.	4	2/C

7. Attempt any one part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	Summarize application areas of augmented reality	5	2/C
b.	Restate the brain-computer interface in detail.	5	2/C

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