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B.Sc. (AIML/CS), Semester-1st
FUNDAMENTALS OF COMPUTER AND IT

Subject Code: UGCA1902

M.Code: 79004/92570

Date of Examination: 11-12-2025

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, carrying TEN marks each and students have to attempt any FOUR questions.

Q. No.	Question	Course Outcome	Bloom's Level
SECTION-A			
1.	Answer briefly:		
a.	Name the main functional units of a computer.	CO1	L1
b.	Explain advantages of primary and secondary memory.	CO1	L2
c.	Compare RAM and ROM with details.	CO2	L2
d.	What is an optical disk?	CO2	L1
e.	List different types of computer languages?	CO3	L1
f.	Classify the binary arithmetic addition and subtraction.	CO3	L2
g.	Demonstrate Charts & Graphs in MS Excel.	CO4	L2
h.	How can you save and print a document?	CO4	L1
i.	Define Bluetooth.	CO5	L1
j.	Explain cloud computing?	CO5	L2
SECTION-B			
2.	Compare Joystick and Scanner with a diagram.	CO1	L4
3.	Identify the advantages and features of printers and plotters.	CO1	L3
4.	Explain Decimal, Octal and Hexadecimal number system with truth table.	CO2	L5
5.	Analyze the difference between primary and secondary memory in detail.	CO3	L4
6.	Justify the role of Artificial Intelligence and Machine Learning in education.	CO4	L5
7.	Identify the advantages of Smart Card, Credit Card, Debit Card and E-Money with diagrams and examples.	CO5	L3

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4.	Evaluate two suitable matrices to express $\begin{bmatrix} 2 & 5 & -7 \\ 9 & 12 & 4 \\ 15 & -13 & 6 \end{bmatrix}$ as the sum of a lower triangular matrix and an upper triangular matrix with zero leading diagonal.	CO3	L5
5.	The sum of first n terms of two arithmetical series is in the ratio of $7n+1:4n+27$. Apply the concept of AP to find the ratio of their 11 th term.	CO4	L3
6.	There are 200 individuals with a skin disorder, 120 had been exposed to the Chemical G_1 , 50 to chemical G_2 and 30 to both the Chemical G_1 and G_2 . Find the number of individuals exposed to (i) Chemical C_1 but not chemical C_2 . (ii) Chemical C_2 but not chemical C_1 . (iii) Chemical C_1 or chemical C_2 .	CO1	L5
7.	Analyse the characteristics of given matrix to find the values of x, y, z if $A = \begin{bmatrix} 0 & 2y & z \\ x & y & -z \\ x & -y & z \end{bmatrix}$ obeys the law $A^T A = I$.	CO3	L4

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