Kathmandu University

Second In-semester Examination-2025 Department of Artificial Intelligence

Level: B.Tech Artificial Intelligence Year: II Time: 15 minutes		Course: AIMA 203	
		Semester: II F.M. : 10	
SECTION" A"	$[10 \text{ Q} \times 1 = 10 \text{ marks}]$	(Do any ten).	
Fill in the blanks by writing the	he most appropriate word(s)	or symbol(s).	
1. Write the condition for the	natural quadratic spline		
2. Write the condition for the	natural cubic spline		
	1		
2. White a major drawback of	f linear arlines		
3. Write a major drawback o	1 imear spinies.	•	
4. Why is cubic spline the me	ost popular one?		
5. What are m_i 's and M_i 's in	the quadratic and cubic splir	nes?	
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6 Write the formula for David	h ang'a Integration using Ther	aggaidal mula	
6. Write the formula for Romb	perg s integration using 1rap	oezoidai ruie	
7. From where the u_i 's are obt	cained in Gaussian quadratur	re	
8. Write an second-degree IV	P		
9. Write an second-degree B	VP		
o. Willie an second-degree D	Y 1	 -	
10. Difference between forward	d Euler method and backwa	ard Euler method:	