

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2023		
Program: B.Tech	Scheme I	
Examination: LY	Semester: VII	
Course Code: HAIMLC701	and Course Name: AI & ML in Healthcare	
Date of Exam: 13/12/23	Duration: 2.5 Hours	Max. Marks: 60

Instructions:				
(1) All questions are compulsory.				
(2) Draw neat diagrams wherever applicable.				
(3) Assume suitable data, if necessary.				
		Max. Marks	C O	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Explain the gap between stakeholder understanding and applications of AI and machine learning.	2	1	U
ii)	AI Prediction in Health care.	2	1	U
iii)	Define meta learning.	2	2	U
iv)	Describe mutation in evolutionary algorithm.	2	2	U
v)	What is the key to measure ongoing performance of your machine learning model	2	3	U
vi)	Explain what is Per-class accuracy	2	3	U
vii)	Explain Patient profiling server.	2	4	U
viii)	Describe Naive Bayesian Classifier	2	5	U
Q.2	Solve any four questions out of six	16		
i)	Explain the Turing Test. What capabilities a computer should possess for the Turing Test.	4	1	U
ii)	Explain the concept of Data Mining and its techniques.	4	2	U
iii)	Explain Drug discovery in Machine learning in healthcare use cases.	4	3	U
iv)	Discribe N-grams with example.	4	4	U
v)	Describe Requirements Summary with appropriate diagram.	4	5	U
vi)	Explain the concept of evidence hierarchy	4	6	U

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Q.3	Solve any two questions out of three.	16		
i)	Explain Properties of task environments in detail.	8	1	U
ii)	Explain how NLP works with diagram.	8	4	U
iii)	Explain Genetic algorithms and its applications	8	5	U
Q.4	Solve any two questions out of three.	16		
i)	Describe various classification phases for pattern recognition, with appropriate diagram.	8	2	U
ii)	Explain why Are There Two Approaches to Evaluating a Model?	8	3	U
iii)	Explain PICO framework and for what is it recommended, with appropriate diagram.	8	6	U

A)	*****			
B)				
C)				
D)				
E)				
F)				
G)				
H)				
I)				
J)				
K)				
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M)				
N)				
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