

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

<del>Nov-Dec-2025</del> <i>Jan - Feb 2026</i> Program: B. Tech Scheme III <del>Supplementary</del> Regular Examination: LY Semester: VII Course Code: HAIMLC701 and Course Name: AI&ML in Healthcare Date of Exam: <i>10/02/2026</i> Duration: 02.5 Hours      Max. Marks: 60	
---	--

Instructions:  
 (1) All questions are compulsory.  
 (2) Draw neat diagrams wherever applicable.  
 (3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any <b>two</b> questions out of three: (05 marks each)	10		
a)	Explain the need for research in the fields of data mining and knowledge discovery.		CO1	U
b)	Describe tasks in Data mining.		CO2	U
c)	Explain Regression in ML		CO3	U
Q 2	Solve any <b>two</b> questions out of three: (05 marks each)	10		
a)	Explain Part of Speech Tagging with proper example.		CO4	U
b)	Discuss the abilities of Profiling Questionnaire to measure various areas.		CO5	U
c)	Explain Guided Search for Disease Information		CO6	U
Q.3	Solve any <b>two</b> questions out of three. (10 marks each)	20		
a)	Explain <b>Utility-based agent</b> in detail with diagram.		CO1	U
b)	Describe Data Warehousing concept and the processes included in it.		CO2	U
c)	Explain various Techniques Used Within NLP		CO3	U
Q.4	Solve any <b>two</b> questions out of three. (10 marks each)	20		
a)	Explain requirement analysis of IPHR.		CO4	U
b)	Explain Genetic algorithms and its applications		CO5	U

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

<del>Nov - Dec 2025</del> Program: B. Tech Scheme III Course Code: HAIMLC701 and Course Name: AI&ML in Healthcare Date of Exam: 10/02/2026 Duration: 02.5 Hours Max. Marks: 60	Jan - Feb 2026
---	----------------

c)	Explain PICO framework and illustrates ways in which problems, interventions, comparisons and outcomes vary depending on the type (domain) of your question.		CO6	U
----	--	--	-----	---

\*\*\*\*\*