

BTIBMC601

VI Semester Examination, May – June 2022
B.Tech.(CSE-AII/CSE-BDAI)

Artificial Intelligence and Applications

Choice Based Credit System (CBCS)

Time: 3 Hrs.**Maximum Marks: 60****Minimum Pass Marks: 24**

Note: All questions carry equal marks, out of which part 'A' and 'B' carry 3 marks and part 'C' carries 6 marks.
 From each question, part 'A' and 'B' are compulsory and part 'C' has internal choice.
 Draw neat diagram, wherever necessary.
 Assume suitable data wherever necessary.

Q.1(A) Differentiate between Data, Information and Knowledge. 03
(B) Define Artificial intelligence. Mention its characteristics. 03
(C) Discuss the AI evolutions and the entire history of AI till 2022. 06

OR

Write down the difference between AI, Machine learning and deep learning with diagram and examples. Explain various AI applications, tools, and their features.

Q.2(A) Discuss the Industry impact of AI. 03
(B) Define Robot and its capabilities. 03
(C) What are the six Key AI technologies? Discuss each in detail and mention the applications also. 06

OR

Explain the Autonomous vehicles in detail. List various components of Autonomous Vehicles.

Q.3(A) Discuss the various applications of NLP. 03
(B) Differentiate between human Intelligence with computer Intelligence. 03
(C) What is UIMA? Explain with diagram in detail. 06

OR

How the Watson responds to a question, write down the steps with diagram.

Q.4(A) Write down the different steps in Facial recognition. 03
(B) What is TensorFlow and its features. 03
(C) Explain Computer Vision in detail. Explain its complexity and challenge. Enlist its applications. 06

OR

Explain working of Fruit classifier with diagram with three inputs: Apple, Orange, Banana.

How our network will classify them? Explain.

Q.5(A) What are the predictions of AGI and ASI? 03
(B) Explain the Multilayer Perceptron with diagram. 03
(C) What is Cognitive Computing. What if Cognitive Computing could enable customization of drugs, providing continuous feedback on their impact? 06

OR

Explain various components of Natural Language Processing giving suitable examples.
