

BTBMC601**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.
