

## Mid Semester Examination

Name of the Course: BCA

Semester V

Name of the Paper: Internet of Things (IOT)

Paper Code: TBC-505

Time: 1.1/2 Hour

Maximum Marks: 50

**Note:**

- (i) Answer **all the questions** by choosing *anyone of the sub questions*.
- (ii) Each question carries 10 marks

<b>Q1</b>	(10 marks)	<b>CO1</b>
<b>(a)</b>	Draw the neat and clean block diagram of IOT and explain about each the blocks?	
OR		
<b>(b)</b>	Define Internet of Things with suitable example. Explain about various characteristics of IOT devices?	
<b>Q2</b>	(10 marks)	<b>CO1</b>
<b>(a)</b>	Enlighten different IoT protocols and layers with neat diagram.	
OR		
<b>(b)</b>	What is IOT communication models? Explain different types of IOT communication models?	
<b>Q3</b>	(10 marks)	<b>CO1- CO2</b>
<b>(a)</b>	What is wireless sensor network (WSN)? Describe WSN function and application with proper example?	
OR		
<b>(b)</b>	State the difference between IoT and M2M.	
<b>Q4</b>	(10 marks)	<b>CO1- CO2</b>
<b>(a)</b>	What is the IOT communication APIs? Describe REST-based Communication APIs.	
OR		
<b>(b)</b>	What do you mean by routing protocols in IOT? List out and describe in brief the routing protocols used in IOT.	
<b>Q5</b>	(10 marks)	<b>CO2</b>
<b>(a)</b>	What is medium access control in IOT? Describe wireless medium access issues in IOT?	
OR		
<b>(b)</b>	Write short note on the following: (i) SOAP (ii) WebSocket	