

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION)**

**CLASS: BTECH  
BRANCH: CIVIL/ME/ECE/EEE**

**SEMESTER: VII  
SESSION: MO/2022**

**SUBJECT: IT423 INTERNET OF THINGS**

**TIME: 2 HOURS**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The total marks of the questions are 25.
  2. Candidates attempt for all 25 marks.
  3. Before attempting the question paper, be sure that you have got the correct question paper.
  4. The missing data, if any, may be assumed suitably.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q1 (a) What is Internet of Things? Write about it in brief.	[2]	1	1
Q1 (b) How does Operating system help to maintain resources constraint in IoT platform? Explain it.	[3]	2	1
Q2 (a) What is renewable power source? Write its applications.	[2]	5	1
Q2 (b) Briefly discuss about the platform of IoT devices with examples.	[3]	4	2
Q3 (a) Define different sensors with its applications.	[2]	2	2
Q3 (b) Write the role of Data link layer in IoT with a diagram.	[3]	3	3
Q4 (a) What is MANET ? Explain briefly with a suitable diagram.	[2]	2	2
Q4 (b) Write in brief about topologies of Internet of Things.	[3]	4	2
Q5 (a) Briefly explain the working process of IoT with a diagram.	[2]	4	2
Q5 (b) Write short notes on a. ZigBee b. WiFi	[3]	3	3

::: 30/09/2022 :::M