



**B.Tech VII Semester Supplementary Examinations, July 2022**

**INTERNET OF THINGS**  
(Information Technology)

**Maximum Marks: 70**

Date: 02.07.2022 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
  3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
  4. Each question carries 10 marks and may have a, b, c, d as sub questions.

**Part-A**

**All the following questions carry equal marks**

**(10x2M=20 Marks)**

- 1 Explain briefly about IoT functional blocks.
- 2 Explain the role of communication protocols in IoT.
- 3 Define SDN.
- 4 Briefly summaries M2M.
- 5 Define Interpreted language? Give any two Examples.
- 6 Differentiate tuple and list in python.
- 7 Summarize the purpose of GPIO pins.
- 8 Recall a sensor with an example.
- 9 Define API.
- 10 Define WAMP? Why we need router in WAMP?

**Part-B**

**Answer All the following questions.**

**(10MX 5=50Marks)**

- 11 A. Explain about different characteristics of IoT. (3 M)  
B. Explain about communication models in detail. (7 M)  
OR
- 12 A. Explain about different IOT Protocol in detail. (5 M)  
B. Explain about communication API's used in IoT. (5 M)
- 13 A. How NFV is different from SDN in IoT? (3 M)  
B. Explain about IOT system management with NETCONF-YANG with neat diagram (7 M)  
OR
- 14 A. How SDN and NFV are more useful in IoT? (7 M)  
B. Identify the limitations makes SNMP not suitable for IoT system (3 M)
- 15 A. How module is different from package in Python? Explain with Example? (5 M)  
B. Python can support both procedure oriented and object oriented programming – justify your answer? (5 M)  
OR
- 16 A. Explain the operations you can perform over file in python? Write a code snippet for printing string from file? (5 M)  
B. Recall function python? How to import a specific function from a module (5 M)
- 17 A. Explain Raspberry Pi with a neat diagram (7 M)

- B. How is Raspberry Pi different from a normal Computer? (3 M)
- OR
- 18 A. Explain about the basic building blocks of an IoT device (5 M)
- B. List the types of Linux flavors supports Raspberry Pi? Explain (5 M)
- 19 A. Briefly explain about the characteristics of cloud computing? (5 M)
- B. Explain the role of clouds in IoT system? (5 M)
- OR
- 20 How Amazon web services are useful for IoT? (10 M)