

Code No:873AC**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA III Semester Examinations, March/April - 2023****INTERNET OF THINGS****Time: 3 Hours****Max.Marks:75****Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) Explain the features of IoT. [5]
- b) Explain key elements of NFV. [5]
- c) What is typecasting? Explain using Python code. [5]
- d) Give the status of LED in Raspberry Pi. [5]
- e) What is the application of Django frame work? [5]

PART – B**(50 Marks)**

- 2.a) Describe functional blocks of IoT.
 - b) Explain link layer protocols of IoT. [5+5]
- OR**
- 3.a) Elaborate different communication models of IoT.
 - b) Describe how IoT system is useful in lifestyle. [5+5]
- 4.a) Compare M2M vs IoT.
 - b) Describe layered architecture of Software Define Network. [5+5]
- OR**
- 5.a) Write the need of IoT system management.
 - b) Explain components of IoT system management with NETCONF. [5+5]
- 6.a) Explain range, pass statements and illustrate with an example Python code.
 - b) What is tuple? Explain its operations in Python. [5+5]
- OR**
- 7.a) Define Module and explain with an example of Python code.
 - b) What JSON package? Encode and decode message in Python. [5+5]

- 8.a) Explain components of Raspberry Pi.
b) Write Python program for controlling LED using Switch. [5+5]
- OR**
- 9.a) Give Python code for sending an Email using Raspberry board.
b) Write steps to read data from Raspberry Pi. [5+5]
- 10.a) Describe WAMP protocol in detail.
b) List out the steps to sending data to Xively cloud. [5+5]
- OR**
- 11.a) Explain Model of Django.
b) Explain REST based communication APIs. [5+5]

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