

Roll No. 2292300309

Total No. of Questions : 8]

[Total No. of Printed Pages : 3

**EXS-214**

**B.Tech. IV<sup>th</sup> Semester (New Scheme) CSE**

**Examination, 2023**

**Internet of Things**

**Paper-CS-403**

**Time : 3 Hours]**

**[Maximum Marks : 60**

**Note :-** Attempt any five questions. All question carry equal marks.

1. (a) Discuss the IOT components with diagram ?

**EXS-214**

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- (b) Explain the various IOT communication on API's ?
- 2. (a) Discuss the detail about arduino with diagram ?  
(b) What zigbee ? Discuss its use and compare zigbee and zigbee IP.
- 3. (a) Explain with example in QTT protocol what is role of in QTT protocol in IOT.  
(b) Explain in detail IP addressing in IOT.
- 4. What do you mean by data storage and cloud based services ?
- 5. (a) Discuss the structure of python programming for raspberry PI ?  
(b) Explain in detail the need of data analytics for IOT ?
- 6. (a) Explain actuators & sensor with respect to IOT ?  
(b) Explain media access control ?
- 7. (a) Discuss the different type of sensors using in IOT ?  
(b) Compare ICP and UDP ?

EXS-214

(2)

- 8. (a) Define cloud computing ? Explain various services provided by the cloud.  
(b) Discuss role of machine learning in IOT ?

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EXS-214

(3)

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**AJEET SONI**