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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 70163

M.E./M.Tech. DEGREE EXAMINATION, APRIL/MAY 2018
Second Semester
Biometrics and Cyber Security
CP 5292 – INTERNET OF THINGS
(Common to M.E. Computer Science and Engineering/M.E. Computer Science and Engineering (With Specialization in Networks)/M.E. Software Engineering/M.Tech. Information Technology)
(Regulations 2017)

Time : Three Hours Maximum : 100 Marks

Answer ALL questions

PART – A (10×2=20 Marks)

1. What are the IoT enabling technologies ?
2. What constitutes IoT Plat forms ?
3. What do you mean by functional model of IoT ?
4. Why IoT references architecture is required so ?
5. Write the salient features of M2M protocol.
6. What is COAP ?
7. How complex is, logical design with PYTHON for an IoT application ?
8. Write the features Arduino.
9. Why industrial automation is considered to be an important problem ?
10. Can could be engaged for IoT ? What are the technical challenges ?

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PART – B (5×13=65 Marks)

11. a) Explain IoT levels and deployment templates. Illustrate the significance of each levels.

(OR)

b) How domain specific IoT systems are developed and managed ? Illustrate specific cases.

12. a) Explain M2M – ETSI architecture. How is different from IETF architecture ?

(OR)

b) Describe IoT reference architecture and information model.

13. a) Explain BACNET protocol and Zig bee architecture.

(OR)

b) Explain SCADA and RFID protocols. What does the IEEE standard explained about ?

14. a) Explain the procedure to build IoT with Raspberry Pi. What are the physical devices and end points ?

(OR)

b) Illustrate the design issues for Raspberry Pi interfaces.

15. a) Explain the design of IoT for smart cities environment with automation.

(OR)

b) Describe software and management tools for IoT cloud storages.

PART – C (1×15=15 Marks)

16. a) Describe IoT system management with NET CONF and discuss the design methodology.

(OR)

b) Explain the Amazon web services for IoT. How users are benefited when using IoT ? Give a clear picture.