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Question Paper Code: 49211

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Computer Science and Engineering

14UCS911 – INTERNET OF THINGS

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. NFC means

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|--------------------------------|---------------------------------|
| (a) Near Field Communication | (b) New Fibre Communication |
| (c) Network Free Communication | (d) Network Fibre Communication |

2. Bluetooth is the wireless technology for

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|------------------------|---------------------------|
| (a) local area network | (b) personal area network |
| (c) both (a) and (b) | (d) None of these |

3. The blue tooth supports

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|--------------------------------|------------------------------------|
| (a) point-to-point connections | (b) point-to-multipoint connection |
| (c) both (a) and (b) | (d) None of these |

4. A Wi-fi enabled device can be

- | | |
|------------------|-------------------|
| (a) PC | (b) Game Console |
| (c) Mobile Phone | (d) All the above |

5. Which kind of agent architecture should an agent use

- | | | | |
|-------------|-----------|----------------|-------------------|
| (a) Relaxed | (b) Logic | (c) Relational | (d) All the above |
|-------------|-----------|----------------|-------------------|

6. What is used for tracking uncertain events?
- (a) Filtering algorithm (b) Sensors
(c) Actuators (d) None of these
7. An RPC application requires
- (a) specific protocol for client server communication
(b) a client program
(c) a server program
(d) all the above
8. Relationship between vocabulary to represent different concepts is classified as
- (a) dictionary (b) thesaurus (c) glossary (d) all the above
9. Internet uses _____ Switching Method.
- (a) Packet (b) Circuit (c) Telephone (d) Telex
10. In RPC 'P' Stands for
- (a) Programme (b) Procedure (c) Pattern (d) Priority

PART - B (5 x 2 = 10 Marks)

11. Why do we need IOT.
12. Differentiate sensors with actuators.
13. List the roles of Software Agents in IOT.
14. Write the impacts of Business Models in IOT.
15. Write a few words about RESTful Web Services.

PART - C (5 x 16 = 80 Marks)

16. (a) (i) Write about policy and Challenges of IOT. (8)
(ii) Explain the Components of Internet of Things. (8)

Or

- (b) Explain the concepts and terminologies any three wireless communication technologies and distinguish the wireless communication technologies with wired communication technologies. (16)

17. (a) Discuss how the communication is possible among Microcontrollers with Mobile Devices and Bluetooth USB with Internet. (16)

Or

- (b) (i) Explain the working principles of Sensors and Actuators with neat Diagram. (8)
(ii) Discuss how Cloud Computing Technologies needs and utilizes IOT. (8)

18. (a) Discuss the Clustering Principles in an Internet of Things Architecture in detail with neat Diagram? Also explain the need and advantages of Clustering. (16)

Or

- (b) Explain the role of IOT for increased Agility and Autonomy in Production. (16)

19. (a) Discuss in detail about the contributions of Semantic Web Ontology for IOT. (16)

Or

- (b) Explain the following in details:

- (i) Semantic web ontology (8)
(ii) IoT in context of EURIDICE (8)

20. (a) Discuss about the Resource Oriented Architecture for Web of Things with IOT. (16)

Or

- (b) Design any one important vertical IoT applications with its design specifications and technical implementations with needed diagrams. (16)
