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Question Paper Code: 49211

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Elective

Computer Science and Engineering

14UCS911 – INTERNET OF THINGS

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

1. In the network HTTP resources are located by_____.
(a) uniform resource identifier (b) unique resource locator
(c) unique resource identifier (d) none of the above mentioned
2. The vision of the future internet of things includes extended internet of things information services based on the _____ information services.
(a) EPC (b) TDS (c) TDT (d) ONS
3. The header length of an IPv6 datagram is_____.
(a) 10bytes (b) 25bytes (c) 30bytes (d) 40bytes
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. Mode of data transfer in FTP, _____.
- (a) Stream mode (b) Block mode
(c) Compressed mode (d) packet
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. The Intelligence technique used in IOT is _____.
- (a) Ambient (b) Fuzzy (c) Normant (d) skew
9. The huge numbers of devices connected to the internet of things have to communicate automatically, not via humans. What is this called
- (a) Machine to Machine (M2M) (b) Bot to Bot (B2B)
(c) Skynet (d) Intercloud
10. IPv6 addressed have a size of?
- (a) 32 bits (b) 64 bits (c) 128 bits (d) 265 bits

PART - B (5 x 2 = 10 Marks)

11. List the challenges and issues of IoT.
12. Differentiate sensors with actuators.
13. Define the fundamental concepts of agility and autonomy.
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) Explain Bluetooth with Wifi. Discuss the merits and demerits of Bluetooth with Wifi. (16)
- Or
- (b) Explain in detail about IOT Architecture with neat Diagram. (16)

17. (a) Explain the working principles of sensors and actuators with suitable examples. (16)

Or

(b) Define communication? Explain the Communication between bluetooth and USB. (16)

18. (a) Explain the clustering principles in an internet of things architecture. (16)

Or

(b) Recommend the Technical Requirements for Satisfying the New Demands in Production. (16)

19. (a) Design a Business model with Actuator Technologies and Middleware as a Basis for a DiY Service Creation Framework. (16)

Or

(b) List the Application of Ontology Engineering in the Internet of Things and Explain (16)

20. (a) Explain Resource oriented Architecture with neat sketch. (16)

Or

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