| Registration No: | | | | | | | | | | | | | | |
|---|--|---|--------|--------|--------|--------|-----------|---------|---------|-------|----------|--------|-------------|-------------|
| Total Number of Pages: 02 B.Te | | | | | | | | B.Tech. | | | | | | |
| | | • | | | | | | | | | | | | PCS5J102 |
| 5 th Semester Regular Examination 2017-18 | | | | | | | | | | | | | | |
| Internet of Things | | | | | | | | | | | | | | |
| BRANCH: CSE Time: 3 Hours | | | | | | | | | | | | | | |
| | Max Marks: 100 | | | | | | | | | | | | | |
| Q.CODE: B314 | | | | | | | | | | | | | | |
| | Ans | wer Questio | n No | .1 an | d 2 v | vhic | n are | com | puls | ory a | and a | any fo | our from t | he rest. |
| | The figures in the right hand margin indicate marks. | | | | | | | | | | | | | |
| Q1 Answer the following questions: multiple type or dash fill up type (| | | | | | | | | | | (2 x 10) | | | |
| QΙ | a) | • • • • • • • • • • • • • • • • • • • | | | | | | | | | (2 X 10) | | | |
| | b) | | | | | | | | | r | | | | |
| | | through the application support data entity (APSDE) and application support | | | | | | | | | t | | | |
| | ٥) | management entity (APSME). | | | | | | | | | | _ | | |
| | c) | A network comprises of machines which have embedded hardware modules sensing, actuation and communication. | | | | | | | | | | 5 | | |
| | d) | is a control system architecture that uses computers, | | | | | | | | | | , | | |
| | | networked data communications and graphical user Interfaces for high-level | | | | | | | | | | | | |
| | | process supervisory management, but uses other peripheral devices such as programmable logic controllers and discrete PID controllers to interface to | | | | | | | | | | | | |
| | | the process plant or machinery. | | | | | | | | | | | | |
| | e) | standards allow the interoperability of portlets across | | | | | | | | | | | 5 | |
| | • | different portal platforms. | | | | | | | | | | | | |
| | f) | Protocol is used for real-Time communication and streaming XML data between network entities. | | | | | | | | | | 9 | | |
| | g) | Which of | the | | lowin | | | e is | s n | ot | offere | ed | by Cloud | d |
| | | Computing?(i | | | | | | | | | | | | |
| | h) | | | | | | | | | | | | | |
| | | and data prod | | | | | | | | | แลด | illona | ualabases | 5 |
| | i) | REST service | | | | | | | | | -• | | | |
| | j) | | | | | | | mines | how | data | is ph | ysical | ly sent ove | r |
| | | the physical r | nediu | ım ın | the ne | etworl | Κ. | | | | | | | |
| Q2 | | Answer the f | follov | ving o | quest | ions: | Sho | rt ans | wer | type | | | | (2 x 10) |
| | a) | What is the ro | ole of | thing | s and | Inter | net in | IoT? | | | | | | |
| | p) | Why do loT s | - | | | | | | | | _ | uring? | 1 | |
| | c) d) | Differentiate I What is Zigbe | | enk | aspbe | elly P | ı anu | ueski | op cc | mput | ei. | | | |
| | e) | What do you | | by R | FID-b | pased | EPC | Netw | ork? | | | | | |
| | f) | What is Rflinks? | | | | | | | | | | | | |
| | g) h) |) Differentiate between SOA and Grid computing. | | | | | | | | | | | | |
| | i) | | | | | | | | | | | | | |
| | j) Distinguish between Web of Things and Internet of Things. | | | | | | | | | | | | | |
| O3 | a) | Briefly evolei | a aba | ut oor | mnon | onto i | n Into | rnot c | of This | nac | | | | (10) |
| Q3 | a) b) | Briefly explain Define RFID. | | | • | | | met (| 111111 | ıys. | | | | (10) (5) |
| | , | | | · | • | | | | | | | | | |
| Q4 | a) | Briefly explain | | | | | | zation | for lo | οT. | | | | (10) |
| | b) | Explain softw | are a | gents | ior o | njects | 5. | | | | | | | (5) |

| Q5 | a) b) | Explain applications of IoT in home automation systems. What are the differences between machines in M2M and things in IoT? | (10) (5) |
|----|----------|---|-------------|
| Q6 | a) b) | Briefly explain about Platform Middleware for WoT. How Big Data can be used in IoT? Explain. | (10) (5) |
| Q7 | a) b) | Explain in details Clustering Principles in Internet of Things Explain concept of agility in IoT. | (10) (5) |
| Q8 | a) b) | Explain in details data synchronization techniques in IoT. Explain issues with IoT standardization. | (10) (5) |
| Q9 | a) b) | Briefly explain about Cloud of Things Architecture. Explain Grid Computing. | (10) (5) |