S-788

Total Pages : 3   Roll No. -------------

MCS-E11

Introduction to Internet of Things

Master of Computer Application (MCA)

4th Semester, Examination 2022(Dec.)

Time: 2 Hours   Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

Q.1. What IoT? What are the key application functionalities of IoT system?

Q.2. Explain various trends in Information and communication technologies and its impact on IoT.

Q.3. Explain M2M and WSN architecture in detail.

Q.4. What is Industrial IoT? Discuss about Smart building Applications in IoT with example.

Q.5. What is cloud computing? Explain how cloud of things acts as enabler for new value added services and applications with a neat diagram.

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

Q.1. Explain sensor network in detail.

Q.2. Explain with example, what are the limitations of IoT?

Q.3. List out different hardware component and ports available on Rasbbery pi.

Q.4. Explain with example, what are the uses of Arduino Programming?

Q.5. What are the applications of SDN?

Q.6. Explain different types of Python API.

Q.7. Explain fog computing and its applications with example.

Q.8. Explain application of IoT for smart cities.

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