

Program: Master of Computer Applications

Curriculum Scheme: CBCGS

Examination: MCA First Year Semester II

Course Code: MCAE242 and **Course Name:** Internet of Things

Time: 2 HRS

Max. Marks: 80

Section I - MCQS (40 Marks) – 40 Minutes

Section II – Subjective (40 Marks) – 80 Minutes

The timings

If the Examination Time is 10:00 am to 12:00 noon

Section I – 10:00 am – 10:40 am

Section II – 10:40 am – 12:00noon

If the Examination Time is 2:00 pm to 4:00 pm

Section I – 2 :00 pm – 2:40 pm

Section II – 2 :40 pm to 4:00 pm

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SECTION II

Q 2. Solve *any Two* questions out of three which carry 10 marks each respectively. 20 marks

- A. Explain the IoT Level 2 and IoT Level 3 Deployment templates.
- B. Explain ETSI and IETF state of art Architectures and Reference Models for IoT.
- C. Write short note on: IEEE-802.15.4 protocol and IoT vulnerability

Q 3. Solve *any Two* questions out of three which carry 10 marks each respectively. 20 marks

- A. Draw the schematic of Functional View of IoT reference architecture and explain various Functional Components (FC) of it.
- B. Use IoT design methodology steps and design Home automation system.
- C. Explain the Cloud of Things Architecture in brief.