

RAN-2011000703020002**M. Sc. (ICT) (Sem. III) Examination****January - 2021****Data Communication and Internet of Things****Time: 3 Hours]****[Total Marks: 70****સૂચના : / Instructions**

(૧)

તીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the details of signs on your answer book

Name of the Examination:

M. Sc. (ICT) (Sem. III)

Name of the Subject :

Data Communication and Internet of Things

Subject Code No.: 2011000703020002

Seat No.:

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Student's Signature

Q.1 Answer the following questions.(Any Three) (18)

- 1) Write short note on major components of Internet of Things (IoT)?
- 2) What is sensor? Explain analog sensor and digital sensor.
- 3) What is Embedded Computing? Explain embedded software and embedded hardware in detail.
- 4) Explain data acquisition and data validation concept in IOT.

Q.2 Answer the following questions in detail. (Any two) (18)

- 1) Write short not on IoT architecture.
- 2) What is database? Explain transaction and business process in IoT.
- 3) Explain Privacy and security requirements in IoT.

Q.3 Answer the following questions (Any Three) (18)

- 1) Explain identity management and identity establishment concept in IoT.
- 2) Explain Value creation concept of IoT.
- 3) Explain data centre management and server management of IoT system in detail.
- 4) Explain business model of IoT.

Q.4 **Answer the following questions in detail.** **(16)**

Q.4. (A) Answer the following short questions. (04)

- 1) What is IoT?
- 2) What do you mean by Message in context of IoT?
- 3) Explain temperature sensor.
- 4) List out vulnerability of IoT?

Q.4 (B) Answer the following questions in detail (Any Three) (12)

- 1) Explain prototype embedded platform.
 - 2) Describe secure message communication concept of IoT.
 - 3) Write short note on development tool and integration platform of IoT.
 - 4) Write short note on wireless communication technology used in IoT system.
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