

M.Sc. 3rd Semester Examination, 2023

COMPUTER SCIENCE

(IoT and Embedded System)

PAPER – COS-303

Full Marks : 50

Time : 2 hours

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP – A

Answer any **four** questions of the following :
2 × 4

1. What is IoT?
2. What is the role of WSN in IoT?
3. Define Sensor and Actuators.

4. What is Sensitivity error?
5. What do you mean by bias?
6. What is non-linearity in sensorial deviation?

GROUP-B

Answer any **four** questions of the following :

7. Describe any two application areas of IoT. 4×4
8. Explain the different classes of Sensors based on output.
9. Briefly explain any two types of Actuators.
10. With the help of a diagram explain the functional blocks of IoT.
11. Differentiate between the Physical and Logical design of IoT.
12. What is an Embedded System? Explain the role of embedded systems in IoT.

GROUP – C

Answer any **two** questions of the following :

13. Explain the different levels of IoT. 8 × 2
14. Describe the different communicational models of IoT.
15. What is REST? Explain the REST architectural constraints. 2 + 6
16. Explain the architecture of IoT mentioning the different protocols in each layer.

[Internal Assessment – 10 Marks]
