

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All question are compulsory.
 2. Figures to the right indicate full marks.

Q.1 Attempt any four of the following:**20**

- A Explain the concept of SoC.
- B What is the difference between GPU and CPU?
- C Explain the architecture of FPGA.
- D Write a note on significance and design challenges of SoC.
- E Write a note on APU.
- F Describe ARM8 architecture.

Q.2 Attempt any four of the following:**20**

- A Write a detailed note on any 5 Linux commands.
- B Explain the concept of multiple master multiple slaves.
- C Write a note on UART.
- D Write a note on working of I2C and state its advantages and disadvantages.
- E Explain the process of cross compilation.
- F Explain PWM.

Q.3 Attempt any four of the following:**20**

- A What is Clayster in IoT? Explain different libraries in it.
- B What is meant by IoT service as a platform?
- C Write a note on HTTP.
- D What is Thingier.io? What are the features of it.
- E What are the different modes of attacks in the network.
- F Explain Denial of Service attack.

Q.4 Attempt any three of the following:**15**

- A Describe the architecture and applications of GPU.
- B Explain the configuration of compute units.
- C Discuss the purpose, features of GPIO.
- D State the features, applications and pin definition of SPI.
- E Describe SenseIoT.
- F What are sensors? Explain different types of sensors used in IoT.

*******END*******