

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VI ELECTRONIC : WINTER- 2022
SUBJECT : EMBEDDED SYSTEMS

Day : Friday

Time : 10:00 AM-01:00 PM

Date : 25-11-2022

W-13389-2022

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

- Q.1 Classify embedded system in brief. (10)
- OR
- Q.1 Define embedded system. Give one case study. (10)
- Q.2 Write and explain data types in embedded system. (10)
- OR
- Q.2 Differentiate between C and Embedded C. (10)
- Q.3 Discuss different operation modes in ARM. (10)
- OR
- Q.3 Compare Cortex A, Cortex R, Cortex M series processor. (10)
- Q.4 Write a program to send SMS using GSM modem and draw the interfacing for the same. (10)
- OR
- Q.4 WAP to generate a square wave and show the interfacing of DAC 0808 with LPC2148. (10)
- Q.5 Draw and explain Block Diagram of LPC1768 and discuss in detail. (10)
- OR
- Q.5 List the features of UART 0 and UART 1 and compare them. (10)
- Q.6 Draw and write program for the interfacing diagram of SSD with LPC1768. (10)
- OR
- Q.6 Draw the interfacing diagram of RGB LED with LPC1768 and also write a program to flow LED's. (10)

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