Total No. of Questions - [3]

Total No. of Printed Pages: 01

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[6]

May 2022 (ENDSEM) EXAM

T.Y.B. Tech (E&TC) (SEMESTER - II) COURSE NAME: Advanced Processors COURSE CODE: ETUA32181C

(PATTERN 2018)

Time: [1Hr] [Max. Marks: 30]

(*) Instructions to candidates:

1) Figures to the right indicate full marks.

2) Use of scientific calculator is allowed

3) Use suitable data wherever required

Q.1

a) What makes Cortex architecture more popular for embedded application with reference to its classical ARM predecessor series?

b) Justify low power consumption in cortex architecture.

OR

b) How different layers of CMSIS is significant to ease out the

development of cortex-based application? [6]

Q2 a) How is bit banding implemented in LPC 1768? How are its benefit?
b) How Power management in LPC 1768 is different them.

b) How Power management in LPC1768 is different than [6] LPC2148. Comment on effectivity of the same.

b) How LPC 1768 architecture is suitable for following category [6] of applications?

1. Lighting control

2. Motor control

Q.3 a) Illustrate the need of Using DSP processor in the application [4]

b) What is significance of MAC in DSP processor? How is pipeline implemented for MAC unit? [6]

b) How to interface 07 segment display with LPC 1768? Explain an algorithm /code to display 00 to 99 on the same.