PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018 (Third Semester)

Branch - APPLIED ELECTRONICS

ARM PROCESSOR

Time : Three Hours

Maximum : 75 Marks

SECTION -A 130 Marks! Answer ALL questions ALL questions carry EQUAL Marks (5 x 6 = 30)

- a Explain the features of ARM7TDMI processor. OR
 b Describe the registers of ARM processor.
- a Explain the various data types of ARM7TDM1.
 OR
 b What do you understand by Power-up Mode? Explain.
- a What are the pipe line signals? Explain their function.
 OR
 b W^rith suitable examples, explain privileged instructions.
- 4 a Discuss the memory organization of LPC 2378.
 OR
 b Write a note on external memory controller.
- 5 a Explain the operation of UART in LPC 2378.
 OR
 b Describe the functions o CAN controller in LPC 2378.

<u>SECTION -B (45 Marks)</u> Answer any THREE questions ALL questions carry' EQUAL Marks (3 x 1 5 = 45)

- 6 Draw the pin diagram of ARM7TDMI and explain the functions of each pin.
- 7 Describe the various memory formats in ARM7TDM1 with suitable examples.
- 8 Give detailed notes on (i) Interface handshaking and (ii) Communication channels.
- 9 Draw the block diagram of LPC 2378 and explain its function.
- U) Explain in detail, the registers used to configure the Timers and also 12C in LPC 2378 with a suitable example.
 - Z-Z-Z

END