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School of Engineering**B.TECH Electrical Engineering
Mid Term Examination - Nov 2023****Duration : 90 Minutes
Max Marks : 50****Sem V - G2UB504B - Microcontroller and Embedded System**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Differentiate between high level, assembly and machine language? K2 (2)
- 2) Organize the pin diagram of 8085 μ P and explain the functionality of each pin. K1 (3)
- 3) Explain data memory and program memory? K2 (4)
- 4) Illustrate neat block diagram of 8085 microprocessor and explain its internal architecture K2 (6)
- 5) calculate the effective address for following register: SS:3860H, SP:1735H, BP: 4826H K3 (6)
- 6) Write an ALP for add two 8-bit numbers K3 (9)
- 7) Categorise some of the general-purpose registers in the 8085. K4 (8)
- 8) Examine the Memory organization for 8086 microprocessor and conclude how the data transfer is faster. K4 (12)

OR

Analyse the types of instructions in 8086 with suitable examples. K4 (12)