

- a) Both A and R are Individually true, and R is the correct explanation of A
- b) Both A and R are Individually true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

4. Matching type item with multiple choice code

CO2 [K₂]

List I	List II
A. RISC	i. Separate data and instruction bus
B. CISC	ii. Common data and instruction bus
C. HARVARD	iii. Less Registers
D. VON-NEUMANN	iv. Easy pipelining

- a) A-iv, B-iii, C-i, D-ii
- b) A-iii, B-iv, C-i, D-ii
- c) A-iv, B-iii, C-ii, D-i
- d) A-iv, B-i, C-iii, D-ii

5. A Null Pointer used in Embedded C programming denotes

CO3 [K₂]

- a) Prototypes
- b) Data Type
- c) Value
- d) Declarations

6. In Embedded System, ICE stands for

CO3 [K₂]

- a) In-Circuit EPROM
- b) In- Code EPROM
- c) In-Circuit Emulation
- d) In- Code Emulation

7. Assertion (A): Linker is also known as loader.

CO4 [K₂]

Reason (R): During compilation debug information is generated.

- a) Both A and R are Individually true, and R is the correct explanation of A
- b) Both A and R are Individually true, but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

8. Which module reduces the energy consumption of the embedded system?

CO4 [K₂]

- a) Simulator
- b) Compiler
- c) Emulator
- d) Debugger

9. Identify the correct precedence order followed in Python.

CO5 [K₂]

1.Exponential

2.Parantheses

3.Division

4.Multiplication

5.Addition

Answer any FOUR Questions

PART D (4 x 10 = 40 Marks)

27. What are the factors to be considered for selecting software architecture for the development of embedded system? CO1 [K₂]
28. Differentiate NULL and VOID pointers with an example. With a simple code snippet explain decision and control statements in Embedded C. CO2 [K₃]
29. What is the need for timeout mechanism in system development process? What do you mean by hardware delay? Infer with an example CO3 [K₃]
30. Brief on the various types of debugging techniques and tool support available for embedded system development. CO4 [K₂]
31. Explain the different file handling operations in python with suitable code snippet. CO5 [K₂]
