# PARUL UNIVERSITY
## FACULTY OF ENGINEERING & TECHNOLOGY
### B.Tech Mid Semester Exam

Semester: IV

Subject Code: 303122257

Subject Name: Communication Protocols for Robotics

Total Marks: 40

Date: (02/02/2024)

Time: (1hr: 30min)

|  |  | Marks |
|---|---|---|
| Q.1 | (A) Five One line Questions | 05 |

1. What is Bus Architecture?
2. Write Full Name of GPIB.
3. What is main application of VESA?
4. What is handshaking?
5. What is peripheral?

(B) Fill in the blanks. — 05

1. _____ is used for long distance communication?

2. _____ flip-flops are there in a flag register of 8085 microprocessor?
3. _____ can provide hardware handshaking?
4. _____ is not a serial protocol?

5. _____ Voltage does the MC1489 can take?

Q.2　Attempt any **four** (Short Questions) — 12

(1) Explain Design criteria for PCI Bus.
(2) What is road bus map?
(3) What is difference between Modbus ASCII and Modbus RTU?
(4) Explain CRT Controller.
(5) Explain GPIB Programming techniques for system cells.

Q.3　Attempt any **two** questions — 08

(1) Explain applications of Microcontrollers.
(2) Write note on Programming methodology for I/O Application.
(3) What is Bus System in Micro Computers?

Q.4　(A) Write note on: ISA and EISA — 05

(B) Explain RS 232 D Centronics interface in detail. — 05

**OR**

(B) Explain design criteria for VESA-VL. — 05

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