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Class: CSAIML-A Assignment: Write a short Roll no: 33. Note on Input/ PRN: 12210272 autput systems.
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PRN: 12210272 autput uystems.
Write a short note on Input (output system.
nistriu atab tuqtua/tuqni espanam LI (i meteyle ent
the system.
ii) It envolves communication between CPU and
memory.
iii) It also performs IPV Cinter process communi- cation) in tetr peripheral devices alsigned
- cation) in tetr peripheral devices assigned
with computers.
The The Organization is critical for overall
iv) The I/o organisation is critical for overall performance and efficiency of computer system.
pogestimes of
1) It also involves specific data transissions,
v) It also involves specific data transissions, every checking and converting data formats
- /a Ovanitation:
· Key components of I/o Organisation:
i) I/o modules: Acts as an peripheral devices is between peripheral.
i) S/O Indours Corricheral.
D.Extices Port
) Rules . A bus communication system that
ii) Buses: A bus communication system that transfer data petween components.

iii) Controllers adapters: It manages operations of peripheral. in between istandard interfaces like USB on

Techniques of I/o organisation

- When a peripheral device needs attention allowing the CPU to facus an atters takes
- 2) memory mapped I(0: Uses same address space for I/0 both memory and I/0
 devices, simplifying programming but potentially slowing down memory access due to
- 3) DMA (Direct memory Aceess): Data transfer between peripheral devices and memory without invalving the CPU, enhancing.
 - · Challenges in I/o operations:
 - 1) Concurrency.
 - 2) Performance.
- 3) Error bondling 4) security and safety.