

STATE BOARD OF TECHNICAL EDUCATION AND TRAINING
TELANGANA

DIPLOMA EXAMINATION (C-21)

C-21-MAR-2025

SEMESTER V, MID-II EXAM

AI/CPS

CPS-585/AI-575

Cloud Computing

22259-AI-035



PCODE
15038

Exam Date: 12-03-2025

Session: FN

Duration: 1 Hour [09:30 AM To 10:30 AM]

[Total Marks: 20]

PART-A

Instructions:

1. Answer the following questions.
2. Each question carries ONE mark.

4 X 1 = 4

1. What is a Hypervisor?
2. List the types of hardware virtualization in Cloud Computing.
3. Define virtual server.
4. Define Hypercall?

PART-B

Instructions:

1. Answer the following questions.
2. Each question carries THREE marks.

2 X 3 = 6

- 5(a). Briefly state the different characteristics of Virtualization
---- OR ----
- 5(b). Write short notes on Programming language level Virtualization.
- 6(a). Write about Full Virtualization.
---- OR ----
- 6(b). Draw the XEN architecture?

PART-C

Instructions:

1. Answer the following questions.
2. Each question carries FIVE marks.

2 X 5 = 10

- 7(a). List the uses of Application Level Virtualization and Operating System Level Virtualization

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---- OR ----

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7(b). Explain about Machine Reference Model.

8(a). What is the need for Virtualization in Cloud Computing? Explain in detail the Pros and Cons of Virtualization in Cloud Computing.

---- OR ----

8(b). Explain about Hyper-V architecture?

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