

GYANMANJARI INNOVATIVE UNIVERSITY
GYANMANJARI DIPLOMA ENGINEERING COLLEGE
Diploma Engineering —Mid Semester Examination (MSE)-W2026

Enrollment No.: _____

Subject Code: DETCE15217

Subject Name: Cloud Computing

Time: 10:30 AM TO 12:30 PM

Date: 26/09/2026

Semester: 5th

Total Marks: 60

Instructions:

1. Question No. 1 is compulsory.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	Marks
Q.1 (a) What is Cloud Computing? Explain its applications in daily life. <i>Cloud Computing એટલે શું? રોજિંદા જીવનમાં તેના ઉપયોગો સમજાવો.</i>	5
(b) Explain the 5 essential characteristics of Cloud Computing with examples. <i>Cloud Computing ની 5 આવશ્યક લાક્ષણિકતાઓ ઉદાહરણ સાથે સમજાવો.</i>	5
(c) Describe Cloud Computing architecture — its layers and components. <i>Cloud Computing architecture એટલે કે તેના layers અને components વર્ણવો.</i>	10
Q.2 (a) Explain Public Cloud — its features, advantages, and disadvantages. <i>Public Cloud ની features, advantages અને disadvantages સમજાવો.</i>	5
(b) Explain Private Cloud — its features, advantages, and disadvantages. <i>Private Cloud ની features, advantages અને disadvantages સમજાવો.</i>	5
OR	
(b) Explain Hybrid Cloud — its features, advantages, and disadvantages. <i>Hybrid Cloud ની features, advantages અને disadvantages સમજાવો.</i>	5

- (c) Define and explain Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) with examples. 10
Infrastructure as a Service (IaaS) અને Platform as a Service (PaaS) ની વ્યાખ્યા આપી ઉદાહરણ સાથે સમજાવો.

OR

- (c) Define and explain Software as a Service (SaaS) with examples, and compare IaaS, PaaS, and SaaS. 10
Software as a Service (SaaS) ની વ્યાખ્યા આપી ઉદાહરણ સાથે સમજાવો અને IaaS, PaaS તથા SaaS ની સરખામણી કરો.

- Q.3 (a) Identify and describe the challenges of Cloud Computing. 5
Cloud Computing ની પડકારો (Challenges) ઓળખો અને વર્ણવો.

- (b) Define Virtualization and explain how it works with a real-life example. 5
Virtualization ની વ્યાખ્યા આપો અને વાસ્તવિક જીવનના ઉદાહરણ સાથે તે કેવી રીતે કાર્ય કરે છે તે સમજાવો.

- (c) Describe Amazon Web Services (AWS) — its major services and use cases. 10
Amazon Web Services (AWS) ની મુખ્ય services અને use cases વર્ણવો.

OR

- Q.3 (a) Explain the security risks in Cloud Computing. 5
Cloud Computing માં રહેલા સુરક્ષા જોખમો (Security Risks) સમજાવો.

- (b) Explain the 1&2 types of Virtualization: Desktop, Network, Storage, and Data. 5
Virtualization ની 1&2 પ્રકારો સમજાવો: Desktop, Network, Storage અને Data.

- (c) Describe Microsoft Azure and VMware Cloud — their services and use cases. 10
Microsoft Azure અને VMware Cloud ની services અને use cases વર્ણવો.