

JS

Section 1 (5 marks per question)

Q1. Explain the concept of cloud computing and its benefits. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example/Diagram (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example/Diagram	2 marks

Q2. Describe the various types of cloud services and their advantages. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example	2 marks

Q3. Explain the role of the IoT paradigm in connecting and enabling communication between physical and virtual objects. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example/Diagram (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example/Diagram	2 marks

Q4. Discuss the convergence of cloud computing and IoT and its potential benefits. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example/Diagram (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example/Diagram	2 marks

Q5. Explain the importance of resource management in cloud-based IoT infrastructures. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example/Diagram (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example/Diagram	2 marks

Q6. Discuss the role of scheduling in managing IoT services in the cloud environment. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example/Diagram (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example/Diagram	2 marks

Q7. Explain the significance of metadata in resource management for IoT services. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example	2 marks

Q8. Discuss the challenges and limitations in managing IoT resources in the cloud. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example/Diagram (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example/Diagram	2 marks

Q9. Provide an overview of the potential applications of IoT in various sectors. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example	2 marks

Q10. Discuss the future trends and advancements expected in the convergence of cloud computing and IoT. Include: a) Definition (1 mark) b) Explanation (2 marks) c) Example/Diagram (2 marks)

Component	Marks
Definition	1 mark
Explanation	2 marks
Example/Diagram	2 marks