Q01. Name the six principles and objectives of agentic AI architecture.

Q02. Name four major patterns of agentic AI architecture.

Q03. With a neat picture, describe the layered architecture of agentic AI systems.

Q04. Name the three core-layers of an agentic AI system and briefly describe each one.

Q05. Name the three Support layers of an agentic AI system and briefly describe each one.

Q06. Name the two deployment architectures of agentic AI systems.

Q07. With a neat diagram and an appropriate example, describe the architecture of a single-agent system.

Q08. How is a multi-agent architecture different from single-agent architecture? Name and briefly explain two major features that distinguish multi-agent architecture from single-agent architecture.

Q09. Name the benefits that multi-agent architecture offers over single-agent architecture.

Q10. Name and briefly explain the three vulnerabilities of multi-agent architecture.

Q11. Name key components of an agentic AI framework.

Q12. Briefly describe the objective, roles, and responsibilities of perception module of an agentic AI framework.

Q13. Briefly describe the objective, roles, and responsibilities of cognitive module of an agentic AI framework.

Q14. Briefly describe the objective, roles, and responsibilities of planning module of an agentic AI framework.

Q15. Briefly describe the objective, roles, and responsibilities of action module of an agentic AI framework.

Q16. Briefly describe the objective, roles, and responsibilities of learning module of an agentic AI framework.

Q17. Briefly describe the objective, roles, and responsibilities of knowledge management module of an agentic AI framework.

Q18. Briefly describe the objective, roles, and responsibilities of goal management module of an agentic AI framework.

Q19. Briefly describe the objective, roles, and responsibilities of communication/collaboration module of an agentic AI framework.

Q20. Briefly describe the objective, roles, and responsibilities of safety and security module of an agentic AI framework.

Q21. Briefly describe the objective, roles, and responsibilities of monitoring and control module of an agentic AI framework.

Q22. With a neat picture, describe the central processing flow between components of an agentic AI framework.

Q23. Name a few of the popular design patterns of agentic AI architecture.

Q24. With a neat picture and an appropriate example, describe the reflection pattern.

Q25. With a neat picture and an appropriate example, describe the tool-use pattern.

Q26. With a neat picture and an appropriate example, describe the planning pattern.

Q27. With a neat picture and an appropriate example, describe the ReAct pattern.

Q28. With a neat picture and an appropriate example, describe the ReWOO pattern.

Q29. With a neat picture and an appropriate example, describe the multi-agent pattern.

Q30. Name a few best practices of agentic AI system design.