**1. Multiple-Choice Questions**

**Q1. What is the primary purpose of the SAP Business Technology Platform (SAP BTP)?**

**A. To provide a centralized repository for customer data.**

**B. To enable businesses to innovate, integrate, and transform operations using services such as application development, automation, and AI.**

**C. To manage the physical infrastructure of on-premise SAP installations.**

**D. To serve as an exclusive platform for SAP Fiori development.**

**Answer: B**

**Q2. Which of the following is NOT a feature of SAP's side-by-side extensibility?**

**A. Side-by-side extensions run directly on SAP S/4HANA’s ABAP server.**

**B. Extensions are decoupled from the core application.**

**C. Integration happens through APIs and events.**

**D. The lifecycle of extensions is independent from the SAP application lifecycle.**

**Answer: A**

**Q3. What is the core data modeling framework in SAP CAP?**

**A. SAP Fiori**

**B. OData**

**C. Core Data Services (CDS)**

**D. SAP HANA SQL**

**Answer: C**

**Q4. Which tool provides a visual representation of the structure of a Fiori application in SAP Business Application Studio?**

**A. Ajax Mapper**

**B. Page Map**

**C. List Page Designer**

**D. Event Handler**

**Answer: B**

**Q5. What is the primary advantage of using the "side-by-side extensibility" approach in SAP BTP?**

**A. It allows direct modification of core systems.**

**B. It ensures custom extensions can be upgraded independently from the core system.**

**C. It allows developers to merge custom extensions with the core application.**

**D. It restricts extensions from accessing SAP APIs.**

**Answer: B**

**Q6. Which of the following SAP BTP services supports real-time integration between cloud and on-premise systems?**

**A. SAP Workflow Management**

**B. SAP Integration Suite**

**C. SAP Business Application Studio**

**D. SAP Cloud Application Programming Model (CAP)**

**Answer: B**

**Q7. What is the purpose of Core Data Services (CDS) in SAP CAP?**

**A. To create database tables for each business entity.**

**B. To model data and service definitions in a reusable and consistent manner.**

**C. To automate the deployment of SAP Fiori applications.**

**D. To manage authorization roles for different business users.**

**Answer: B**

**Q8. In the SAP Cloud SDK, which feature helps developers handle resilience and fault tolerance in cloud applications?**

**A. Cache management**

**B. Tenant isolation**

**C. OData service generation**

**D. Circuit breaker pattern**

**Answer: D**

**Q9. When deploying applications to SAP BTP’s Cloud Foundry environment, which command is used to push the application to the platform?**

**A. cf run**

**B. cf deploy**

**C. cf push**

**D. cf start**

**Answer: C**

**Q10. Which of the following capabilities does SAP SuccessFactors provide?**

**A. Supply Chain Management**

**B. Human Capital Management and Employee Experience Management**

**C. Customer Relationship Management**

**D. Enterprise Resource Planning**

**Answer: B**

**Q11. Which of the following is a key benefit of using SAP HANA Cloud as a database for SAP applications?**

**A. SAP HANA Cloud offers limited real-time capabilities.**

**B. SAP HANA Cloud provides in-memory data processing for faster analytics and data retrieval.**

**C. SAP HANA Cloud only supports traditional SQL queries.**

**D. SAP HANA Cloud is designed for on-premise deployment only.**

**Answer: B**

**Q12. Which SAP BTP service would you use to seamlessly integrate cloud applications with on-premise SAP systems?**

**A. SAP Integration Suite**

**B. SAP Fiori Elements**

**C. SAP Build Work Zone**

**D. SAP Business Application Studio**

**Answer: A**

**Q13. What is a key benefit of the "keep the core clean" principle when developing SAP extensions?**

**A. It allows direct modification of SAP S/4HANA core data tables.**

**B. It decouples custom extensions from the core SAP system, making upgrades easier.**

**C. It enables real-time changes to the core system without downtime.**

**D. It permits ABAP code modification directly within SAP S/4HANA Cloud.**

**Answer: B**

**Q14. Which SAP BTP service allows businesses to build low-code/no-code applications quickly?**

**A. SAP Build Apps**

**B. SAP Cloud Foundry**

**C. SAP HANA Cloud**

**D. SAP Integration Suite**

**Answer: A**

**Q15. What is the purpose of SAP Build Work Zone?**

**A. To create a single repository for SAP Fiori applications.**

**B. To provide a role-based, personalized workspace for users.**

**C. To build APIs for integration with external systems.**

**D. To manage multi-tenant database infrastructure.**

**Answer: B**

**Q16. When developing extensions for SAP S/4HANA Cloud, which principle helps to ensure system updates can be applied without breaking custom code?**

**A. Multi-tenancy**

**B. Side-by-Side Extensibility**

**C. Direct Database Integration**

**D. ABAP Code Injection**

**Answer: B**

**Q17. What are the key benefits of the SAP Cloud Application Programming Model (CAP)?**

**A. Enables real-time data visualization without the need for a backend.**

**B. Provides a structured framework for building enterprise-grade cloud applications with built-in support for services, data models, and APIs.**

**C. Directly modifies SAP core applications with minimal restrictions.**

**D. Focuses only on the frontend side of development.**

**Answer: B**

**Q18. Which of the following are the foundational pillars of SAP Business Technology Platform (BTP)?**

**A. Blockchain, IoT, and Edge Computing**

**B. Application Development, Automation, Integration, and Data & Analytics**

**C. Identity Management, Data Governance, and Cloud Security**

**D. Database Management, Data Migration, and UI Development**

**Answer: B**

**Q19. In the SAP Cloud Application Programming Model (CAP), what role does the "service layer" play?**

**A. Manages the application's user interface (UI) design.**

**B. Enables external systems and UIs to communicate with the application's business logic through APIs.**

**C. Serves as a database layer for handling raw data.**

**D. Handles system-level operations like network and storage.**

**Answer: B**

**Q20. Which command is used to deploy a Node.js-based CAP application to the SAP BTP Cloud Foundry environment?**

**A. cf push**

**B. npm start**

**C. deploy --cf**

**D. cds serve**

**Answer: A**

**Q21. What is the purpose of SAP Build Work Zone in SAP BTP?**

**A. To integrate third-party software with SAP Fiori.**

**B. To provide a role-based digital workplace and unify business applications into a single user experience.**

**C. To manage API connectivity between SAP systems and external applications.**

**D. To generate machine learning models for business automation.**

**Answer: B**

**2. True/False Questions**

**Q22. In SAP CAP, event handling occurs in three phases: Before, On, and After.**

**True**

**False**

**Answer: True**

**Q23. SAP Cloud SDK supports both Java and JavaScript and simplifies API communication for extension development on SAP BTP.**

**True**

**False**

**Answer: True**

**Q24. The "keep the core clean" principle in SAP S/4HANA Cloud recommends developing extensions outside of the core SAP system to allow for easier upgrades.**

**True**

**False**

**Answer: True**

**Q25. SAP Business Application Studio is a low-code tool for building SAP Fiori applications.**

**True**

**False**

**Answer: False**

**Q26. SAP HANA Cloud provides real-time, in-memory data processing capabilities.**

**True**

**False**

**Answer: True**

**Q27. JSON files are more readable and provide better human readability compared to YAML files.**

**True**

**False**

**Answer: False**

**Q28. SAP Build Work Zone is a tool for creating APIs for integration between SAP systems and third-party applications.**

**True**

**False**

**Answer: False**

**3. Scenario-Based Questions**

**Q29. You are developing a side-by-side extension for an SAP S/4HANA Cloud application using SAP BTP. Your extension needs to integrate with the core system using real-time data, but it should not interfere with the SAP S/4HANA lifecycle. Which SAP technology stack will you use, and what best practice will you follow to ensure clean integration?**

**A. Use ABAP-based development on SAP S/4HANA's core server, modifying the core system for each extension.**

**B. Use the SAP Cloud Application Programming Model (CAP) to build the extension and integrate through SAP APIs to keep the core clean.**

**C. Use custom Java code directly inside SAP S/4HANA Cloud for all real-time interactions.**

**D. Deploy a custom solution directly on the ABAP application server and modify core data tables.**

**Answer: B**

**Q30. Your organization is adopting SAP BTP to develop cloud-native applications. You need to ensure that the applications are scalable, and you are tasked with setting up the environment. Which runtime environment will you choose, and what benefits does it offer?**

**A. SAP BTP ABAP Runtime for non-ABAP-based extensions.**

**B. Cloud Foundry Runtime, allowing flexibility with multiple programming languages like Node.js and Java.**

**C. SAP BTP Kyma Runtime for hosting on-premise solutions.**

**D. SAP BTP Workflow Service for handling user-based workflows only.**

**Answer: B**

**Q31. As a developer, you are building a full-stack application on SAP BTP using the CAP model. The application should support real-time analytics. Which database technology will you use, and how does it support your requirement?**

**A. PostgreSQL because it supports high-availability deployments.**

**B. SAP HANA Cloud because it provides in-memory real-time analytics capabilities.**

**C. SQLite for simple local development of real-time systems.**

**D. MongoDB for storing hierarchical data.**

**Answer: B**

**Q32. Your company wants to integrate third-party payment gateways with SAP S/4HANA Cloud using secure APIs. Which SAP BTP service would you use to handle this integration?**

**A. SAP Workflow Management**

**B. SAP Integration Suite**

**C. SAP CAP**

**D. SAP Business Application Studio**

**Answer: B**

**Q33. You are tasked with creating an automated workflow for processing sales orders in real-time. Which SAP BTP service would be the most appropriate choice?**

**A. SAP Integration Suite**

**B. SAP Workflow Management**

**C. SAP Business Application Studio**

**D. SAP HANA Cloud**

**Answer: B**

**Q34. Your team needs to develop an enterprise-grade application using SAP BTP that can handle multiple tenants and ensure data isolation. Which SAP service or framework will best support this requirement, and why?**

**A. SAP Business Application Studio for its development tools.**

**B. SAP CAP with multi-tenancy support to isolate tenant data.**

**C. SAP Integration Suite to connect external tenants.**

**D. SAP Fiori Elements for creating UIs.**

**Answer: B**

**Q35. Your company wants to implement a system where a customer can place orders through an app that integrates directly with SAP S/4HANA Cloud. The app also needs to display real-time inventory data. Which SAP BTP service will you use to handle integration between the app and SAP S/4HANA, and why?**

**A. SAP Fiori Elements because it allows building UIs.**

**B. SAP Integration Suite for seamless real-time integration between the app and SAP S/4HANA Cloud.**

**C. SAP CAP for generating real-time APIs.**

**D. SAP Workflow Service for managing customer interactions.**

**Answer: B**

**Q36. You are tasked with building a custom application that collects data from IoT sensors and integrates this data with SAP S/4HANA Cloud for further analytics. Which runtime and framework should you use to develop this application on SAP BTP, and why?**

**A. SAP BTP ABAP Runtime with direct database access.**

**B. SAP BTP Kyma Runtime using event-based microservices for handling sensor data.**

**C. SAP Business Application Studio with the Java SDK for IoT devices.**

**D. SAP Build Process Automation for gathering data.**

**Answer: B**