

1. In a typical layered system (choose the wrong answer)

A layer invokes services provided by layer above

<https://www.techunlock.in/2020/06/Software-Architectures-Quiz-Questions.html>

https://compsciedu.com/mcq-questions/Software-Architecture-and-Design/Visibility_Accessibility-and-Information-Hiding/13

2. provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets

iaas

<https://compsciedu.com/Cloud-Computing/Services-and-Applications-Basics/discussion/5412>

3. RAD201 What is the main technique for achieving portable software?

The main technique for achieving portable software is to isolate system dependency

<https://compsciedu.com/mcq-questions/Software-Architecture-and-Design/Architectural-Patterns-and-Styles/5>

4. Software architecture is related to - **Public parts of the software**

<https://people.ece.ubc.ca/matei/EECE417/BASS/ch02lev1sec1.html>

Architecture is concerned with the public side of this division; private details-those having to do solely with internal implementation-are not architectural.)

5. In C & C views, the components are called as **Objects**

[Overview | The Component-and-Connector Viewtype \(flylib.com\)](#)

6. MUR01. Localization of using the resources to facilitate introduction of higher-capacity replacements is done for achieving

Scalability

<https://people.ece.ubc.ca/matei/EECE417/BASS/ch02lev1sec4.html>

7. Which structure describes units as abstraction of system's functional requirements?

Conceptual structure

<https://mcgmate.com/discussion/44136/which-structure-describes-units-as-abstraction-of-system%E2%80%99s-functional-requirements>

8. **Service-Oriented Architecture** provides independent of **Operating System**

<https://www.techunlock.in/2020/06/Software-Architectures-Quiz-Questions.html>

9. Which cloud computing model will satisfy all their current needs and enable them to reduce cost

hybrid cloud

http://www.mcqtutorial.com/MCQ/Miscellaneous/Cloud%20Computing/121_198_11.php

10. Which is a representation of a coherent set of architectural elements, as written by and read by system stakeholders?

View

A VIEW IS A REPRESENTATION OF A COHERENT SET OF ARCHITECTURAL ELEMENTS, AS WRITTEN BY AND READ BY SYSTEM STAKEHOLDERS. IT CONSISTS OF A REPRESENTATION OF A SET OF ELEMENTS AND THE RELATIONS AMONG THEM.

<https://shapingsoftware.com/2008/10/01/3-groups-of-architectural-structures/>

11. Growing trend of software systems being made up of tiny micro-services, which highlights?

Each service only does one thing but does that thing very well

One microservice: one container

A fundamental idea underpinning microservices architecture is that a **microservice should do one thing and do it exceedingly well**; when deployed in containers, a similar ratio applies.

<https://enterpriseproject.com/article/2017/9/microservices-and-containers-6-things-know-start-time>

12. "KISS" is a well-known principle of

Reliability & Availability

<https://mb-drive-services.com/keep-it-simple-stupid/>

Certainly, KISS approach can be applied and is applied for variable frequency drives. Especially when it comes to reliability and availability.

13. Dependency Inversion Principal implies

A way of implementing such structures would be to write high level classes and once we have them to write the complex low level classes.

<https://www.techunlock.in/2020/06/Software-Architectures-Quiz-Questions.html#more>

14. Which of these is not one of minimal OS services that are implemented by primitives and system calls in the Microkernel approach?

Layout Management

[https://en.wikipedia.org/wiki/Kernel_\(operating_system\)#:~:text=The%20microkernel%20approach%20consists%20of,%2C%20and%20inter%2Dprocess%20communication.](https://en.wikipedia.org/wiki/Kernel_(operating_system)#:~:text=The%20microkernel%20approach%20consists%20of,%2C%20and%20inter%2Dprocess%20communication.)

The microkernel approach consists of defining a simple abstraction over the hardware, with a set of primitives or [system calls](#) to implement minimal OS services such as [memory management](#), [multitasking](#), and [inter-process communication](#).

15. [Quality attributes](#) that are important in a cloud

All the given options

<https://www.techunlock.in/2020/06/Software-Architectures-Quiz-Questions.html#more>

16. Reflection Pattern is a device to implement the following tactics

Localize Change: Increase semantic coherence

<https://www.techunlock.in/2020/06/Software-Architectures-Quiz-Questions.html#more>

17. Which of the following view shows that the system is composed of interacting processes at run time?

Process

<https://mcqmate.com/discussion/32063/which-of-the-following-view-shows-that-the-system-is-composed-of-interacting-processes-at-run-time>

18. Which view is used for mapping of software units to elements of an environment in which the software is developed or in which it executes?

An **allocation view** type relates a software unit to a non-software unit.

<https://people.ece.ubc.ca/matei/EECE417/BASS/ch02lev1sec5.html>

Allocation

Implementation. This structure shows how software elements are mapped to the file structure(s) in the system's development, integration, or configuration control environments.

19. Which of the following guarantees that the sender of a message cannot later deny having sent the message, and that the recipient cannot deny having received the message

Nonrepudiation

https://tib.edu.in/assets/img/tib/otherfiles/cs_801D.pdf

20. Which of the following is incorrect?

Each layer provides services to the layer “below” and makes use of services provided by the layer “above”

https://compsciedu.com/mcq-questions/Software-Architecture-and-Design/Visibility_Accessibility-and-Information-Hiding/13

21. Which of the method was developed for analyzing Architecture?

SAAM

<https://medium.com/@bhagvankommadi/saam-software-architecture-analysis-method-36864cd8ea94>

<https://engineeringinterviewquestions.com/mcqs-on-analyzing-software-architecture-answers/>

22. Which of the goal represent Interoperability?

Provides accepted rules for the behavior that facilitates interaction

<https://www.sanfoundry.com/software-architecture-mcqs-standards-one/#:~:text=7..of%20the%20goal%20represent%20Interoperability%3F&text=Explanation%3A%20Interoperability%20is%20to%20provide,8.>

23. Which among these are the rules to be considered to form Class diagrams?

Class symbols must have at least a name compartment

<https://mcqmate.com/discussion/22426/which-among-these-are-the-rules-to-be-considered-to-form-class-diagrams>

24. The property of inheriting the properties of one class to another class is

Generalization / Specialization

<https://javapapers.com/oops/association-aggregation-composition-abstraction-generalization-realization-dependency/>

25. True statement (Hypervisor)

hypervisor allows you to have several virtual machines all working optimally on a single piece of computer hardware

[C and C++ programs and MySQL: October 2017 \(ctargets.blogspot.com\)](http://ctargets.blogspot.com)

26. Broker – All of the given options

<https://medium.com/@nethmihettiarachchi484/common-software-architectural-patterns-in-a-nutshell-7df312d3989c>

Brokers add a layer of indirection and hence latency, between clients and servers, and that layer may be a communication bottleneck.

- The broker can be a single point of failure.
- A broker adds up-front complexity.
- A broker may be a target for security attacks.
- A broker may be difficult to test.

27. What property do you have to pay attention to the time based behaviour elements?

Performance

<https://people.ece.ubc.ca/matei/EECE417/BASS/ch02lev1sec4.html>

28. What is architecture of a software based on

Requirements

<https://www.sanfoundry.com/software-architecture-mcqs-architecture-business-cycle/#:~:text=What%20is%20Architecture%20of%20a%20software%20based%20on%3F&text=Explanation%3A%20Architecture%20of%20software%20dependencies,given%20same%20set%20of%20requirements%3F>

29. Which diagram shows how the system or portion of the system depicted in this view relates to its environment?

Context Diagram

https://en.wikipedia.org/wiki/System_context_diagram

30. In MVC Pattern

View implements business logic

<http://ctargets.blogspot.com/2017/10/>

31. What is the benefit of a cloud computing environment?

It maximizes server utilization by implementing automated processing.

http://www.mcqutorial.com/MCQ/Miscellaneous/Cloud%20Computing/121_198_19.php

32. In a Client Server pattern (choose wrong answer)

Client server communication is always synchronous

https://en.wikipedia.org/wiki/Client%E2%80%93server_model#:~:text=Client%20and%20server%20communication,-Generally%2C%20a%20service&text=Clients%20and%20servers%20exchange%20messages,example%20of%20inter%2Dprocess%20communication.

33. Don't Repeat Yourself works well in

Programming, Documenting

https://en.wikipedia.org/wiki/Don%27t_repeat_yourself

34. Which are sequences of activities or interactions that describe the systems response to a specific stimulus when the system is in specific state?

Traces are sequences of activities or interactions that describe the system's response to a specific stimulus when the system is in a specific state. These sequences document the trace of activities through a system described in terms of its structural elements and their interactions.

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.15.730&rep=rep1&type=pdf>

35. This phase of SDLC is known as the “ongoing phase” where the system is periodically evaluated and updated as needed.

System maintenance

<https://www.siteforinfotech.com/2016/01/multiple-choice-questions-on-sdlc-set-4.html>

36. The final step of system analysis phase in the SDLC is to

Write system analysis report

<https://www.siteforinfotech.com/2016/01/multiple-choice-questions-on-sdlc-set-4.html>

37. Fail to enforce standards as a contributor to poor quality belongs to which category?

Lack of involvement by management

<https://www.articlesontesting.com/2011/08/cste-certification-questions-3.html>

38. Quality is not a long-term strategy

False

39. The contributor to poor quality in an organization are

Lack of knowledge about quality
Lack of involvement by management

<https://www.articlesontesting.com/2011/08/cste-certification-questions-3.html>

40. Achieving quality is easy. True/**False**

<https://www.articlesontesting.com/2011/08/cste-certification-questions-3.html>

41. According to a quality expert, accomplishing quality requires a thought revolution by management. Name the expert.

Dr. Ishikawa

<https://www.scribd.com/document/45213143/Objective-Questions>

42. The effort required for locating and fixing an error in an operational program

Maintainability

<https://t4tutorials.com/software-testing-mcqs-for-book-chapters/>

43. The effort required for modifying an operational program

Flexibility

<https://t4tutorials.com/software-testing-mcqs-for-book-chapters/>

44. Which are the requirements are not clear and business is so dynamic, which model can be used?

Bing bang model

45. Mud to Structure

Client-Server

<http://clweb.csa.iisc.ac.in/sandhya/sa/review/patterns.htm>

46. Which one of the following is an architecture paradigms?

HTTP is a protocol.

<https://www.sanfoundry.com/computer-networks-mcqs-application-layer/#:~:text=3.,following%20is%20an%20architecture%20paradigms%3F&text=Explanation%3A%20HTTP%20is%20a%20protocol.>

47. Which of the following statements are right?

The architect is responsible for defining these quality attributes in detail and developing a plan to address them within the backlog.

https://itabok.iasaglobal.org/itabok3_0-2/value-model/quality-attributes/

48. Division of Responsibilities between PM and Architect (ignore reporting relationship between them)

Mutually dependent

[C and C++ programs and MySQL: October 2017 \(ctargets.blogspot.com\)](#)