

System Analysis and Design Final Exam - 02

Primeasia University, Bangladesh.
Banani, Dhaka

System Analysis and Design
Examination: Semester Final

Semester: Fall 2020

Test Date: 17/01/2021

Test Time: 3:30PM

Test Duration: 60Mins

Test Score: 30

Test Rules (Please READ)

1. Please do not copy the answer from others, similar answer will be taken as a copy.
2. You have 60mins for your exam, however, if you submit your exam paper quickly you will get marks benefits.
3. You have to submit the answer paper in Google form as soon as possible without any delay, if you are not able to submit it on time, need to inform me.
4. No late submission will be accepted.
5. If you have link or internet issues, need to notify me within the first 10mins of the exam.
6. For answering the Analytical Question, please write your answer in a paper and upload in this google form.

*** Required**

1. Email address *

2. Name *

3. Student ID *

4. Admit ID *

5. Which of the following is not a part of the key elements for Class Diagram

Mark only one oval.

☐ Collaboration

☐ Relationships

☐ Features

☐ Classifiers

6. For Class Diagram, behavioral features are actually

Mark only one oval.

☐ Operations or methods for that class

☐ Properties or attributes of that class

☐ Relationship between classes

☐ Dependency and association

7. Association Link can be of the following

Mark only one oval.

- ☐ Zero or more
- ☐ Exactly one
- ☐ Between a Rang
- ☐ All above

8. Which Diagram usually capture the behavior of an interaction among two or more entities within a scenario

Mark only one oval.

- ☐ Class Diagram
- ☐ Communication Diagram
- ☐ Sequence Diagram
- ☐ Relationship Diagram

9. Fragments, activation or execution specification, interaction messages, lifeline and participants are usually the key elements of the following UML Diagram

Mark only one oval.

- ☐ Class Diagram
- ☐ Sequence Diagram
- ☐ Object Diagram
- ☐ State Machine Diagrams

10. What is the main difference between Object Diagram and Class Diagram

Mark only one oval.

- ☐ Class Diagram give relationship between different classes but Object diagram don't do that.
- ☐ Class Diagram give the features but Object diagram don't give the features
- ☐ Class diagram is the full system diagram for the class activities, whereas Object diagram give the snap of the system as an Instance
- ☐ Non Above

11. What is a State Machine Diagrams

Mark only one oval.

- ☐ State Machine Diagrams is to suggest the class relationship diagram
- ☐ State Machine Diagrams is to see the system level overview
- ☐ State machine diagrams is to model an entity's states and its transitions within a system
- ☐ To show the partial or complete representation of instances

12. Which of the diagram is use to model the autonomous, reusable units with interface "wired" together to form a system

Mark only one oval.

- ☐ Component Diagram
- ☐ Sequence Diagram
- ☐ Package Diagram
- ☐ Wired Diagram

13. Why we need to use software tools for agile development process?

Mark only one oval.

- ☐ Simplify process automation
- ☐ Provide Productivity Analytics
- ☐ Facilitate communication among and across teams
- ☐ Above all

14. In Scrum, who go the responsibilities of product backlog and ensuring the development team works on the most important items.

Mark only one oval.

- ☐ Scrum Master
- ☐ UI Developer
- ☐ Product Owner
- ☐ Database designer

This is the section for Analytic Question, where you have to write, draw your question and upload them with the respective question.

15. Please Draw a Classifier with Name "Bank Transection" having a method with following statement "A Private method with the name of transection takes a parameter with name amount of type integer and returns a value of type Boolean." (After Drawing Please upload here, only PDF and Image files).

Files submitted:

16. Draw a class diagram from the following use case: 1. Event-organizer creates a request for a venue and submits it with event details: event-name. event-size. 2. Venue-manager check for the venue availability and approves. 3. Event-organizer book for the sound-system and lighting after getting the approval from venue-manager.

Files submitted:

17. Draw a sequence diagram from the following use case: 1. Event-organizer creates a request for a venue and submits it with event details: event-name. event-size. 2. Venue-manager check for the venue availability and approves. 3. Event-organizer book for the sound-system and lighting after getting the approval from venue-manager.

Files submitted:

18. Draw a Sample Class Diagram and a Sample Object Diagram. And show what are the basic difference between them.

Files submitted:

19. Draw all the key elements of a Component Diagram.

Files submitted:

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