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Paper : SDA

Question No: 01

MCQs

(1*15=15)

1: UML activity diagrams are useful in representing which analysis model elements?

- Behavioural elements
- Class based elements
- Flow based elements

Ans.. Scenario based elements

2: Unified Modelling Language (UML) is a graphical language for

- visualizing
- specifying
- none

Ans.. both a and b

3: To support this module view which UML diagrams are used?

- package diagram
- component diagram
- both a and b

Ans.. activity diagram

4: Which of the following are the design concerns in design model?

- Data
- Interfaces
- Architecture

Ans.. a, b and c

5: Which of these are characteristics of a good design

- exhibits strong coupling between its modules

- implements all requirements in the analysis model
- provides complete picture of the software

Ans.. b and c

6: Which of the following is used to represent the architectural design of a software?

- Dynamic models
- Functional models
- Structural models

Ans.. All of above

7: Since modularity is an important design goal it is not possible to have too many modules in a proposed design

- True

Ans.. False

8: All architecture is design, not all design is architecture

Ans.. True

- False

9: Reusability of software modules refers to

- the easiness of maintaining a software system

Ans.. that its components can be easily reused in the development of other software systems

- that can be easily transported from one hardware/software platform to another,
- that a system performs user required functionality correctly

10: Cohesion is a qualitative indication of the degree to which a module

- can be written more compactly

Ans.. focuses on just one thing

- is able to complete its functionality on time
- measures the interconnection among modules in a software structure

11: Coupling is a qualitative indication of the degree to which a module

- can be written more compactly
- focuses on just one thing

- is able to complete its functionality on time

Ans.. measures the interconnection among modules in a software structure

12: Information hiding is a qualitative indication of the degree to which a module

- can be written more compactly
- focuses on just one thing

Ans.. is inaccessible to other modules

- measures the interconnection among modules in a software structure

13: Data oriented design is useful for systems that

Ans.. process lots of data

- process intensive systems
- is used for the large systems that can be modularized
- uses mathematical notation

14: Formal methods are useful for systems that

- process lots of data
- process intensive systems
- is used for the large systems that can be modularized

Ans.. uses mathematical notation

15: Component based methods are useful for systems that

- process lots of data
- process intensive systems

Ans.. is used for the large systems that can be modularized

- uses mathematical notation

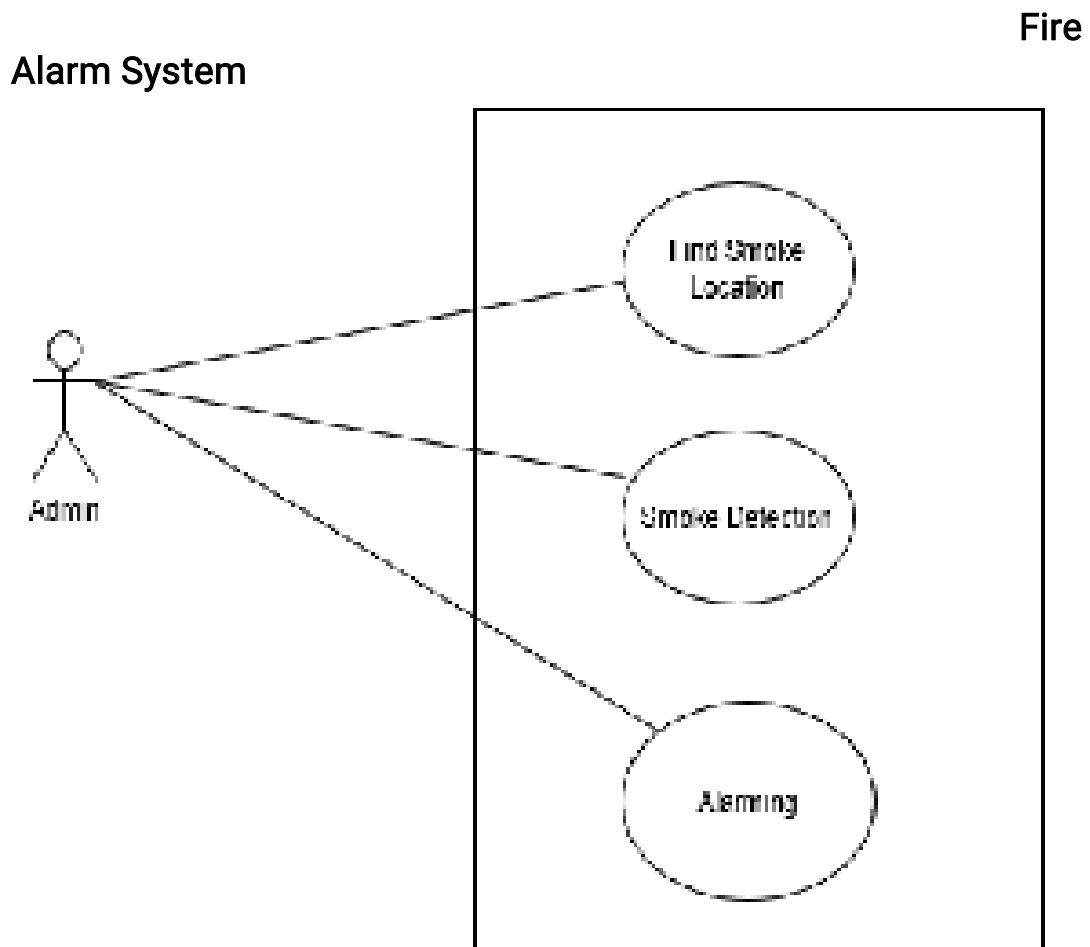
Question 2 :

Part a :

Functionalities of the above scenario are following :

1. To Detect Smoke
2. To find the location where the fire or smoke are present
3. Alarm should be ring where the location signals.

Part b: Use Case Diagram



Part C: Activity Diagram

