

(1)

Salm

19K-1043 BS SE (A)

ISE FINAL

Q #1
(a)

Product Backlogs

- | | |
|-------------|--|
| Dish/Bowl 1 | 1). Bear Out of home |
| Dish/Bowl 2 | 2). Goldilock in home |
| Dish/Bowl 3 | 3). Goldilock eats third dish |
| Seat 1 | 4). Goldilock like third seat |
| Seat 2 | 5). Third Seat Broke |
| Seat 3 | 6). Goldilock nods off on third |
| Bed 1 | Bed |
| Bed 2 | 7). Bears Return home |
| Bed 3 | 8). Bears Irritate about meal,
seat and Bed |
| | 9). Bears Thunder Goldilok |
| | 10). Goldilock run home. |

(b)

Answers Basically Prototyping is the initial version of system that tells the core concepts and how the system is going to be designed. Prototyping can be done in both Waterfall and Agile Method. It has nothing to do with the concepts of waterfall and Agile.

(2)

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It only show the pre-image of the system and used in the process of Software Development Life Cycle (SDLC). Prototyping is done before the development of system.

Q #2

(a)

Reasons for Requirement Change:

1). The business rapidly change with the span of time, so for this purpose new requirements comes up which cause previous requirements to change.

2). New technical stuff and hardware may introduce which may create change in the interface of the system or becomes incompatible with current system. Therefore it cause the change in requirements to must fulfill the current need.

3). The budget constrains may cause the customer to conflict with development but after the ~~rel~~ release of the system new features of the system may added

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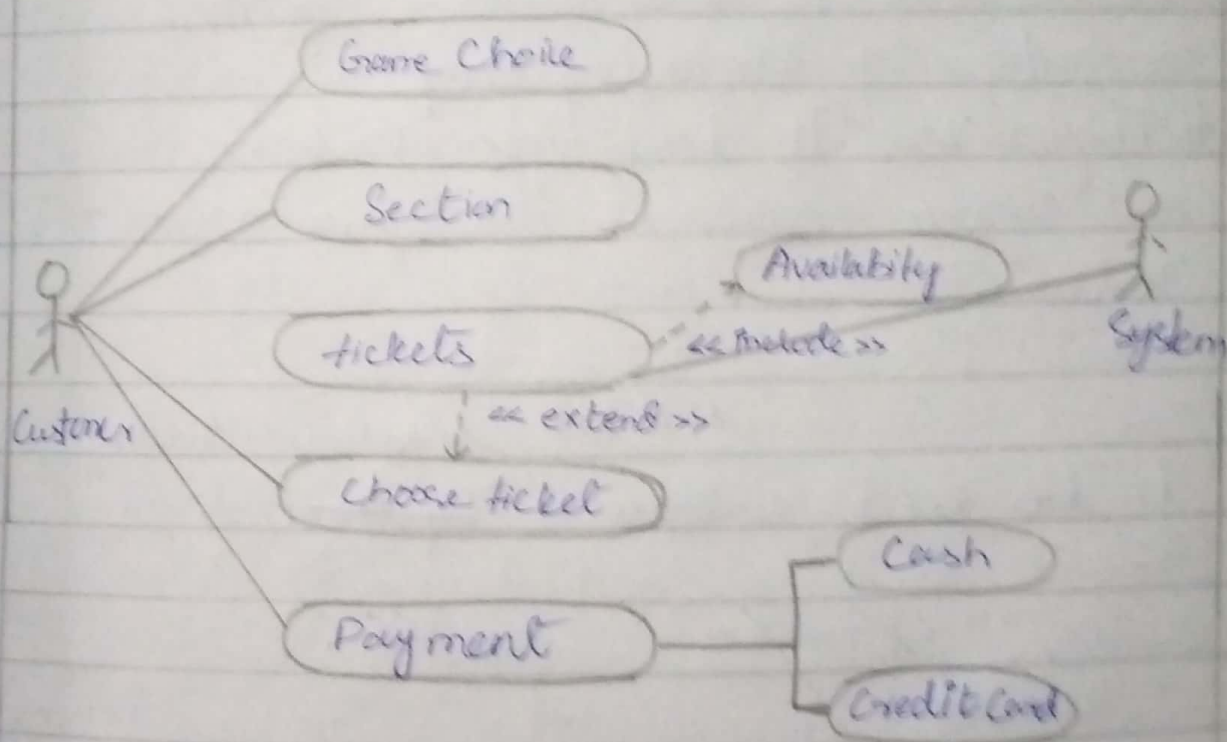
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this can change the requirements.

4). New law and legislation may occur which can cause requirements to change.

(b)



Q #3

(a)

Answer: The purpose of modeling is to give a high level view of the system that is going to be developed. An Architecture tells about the structure of the system.

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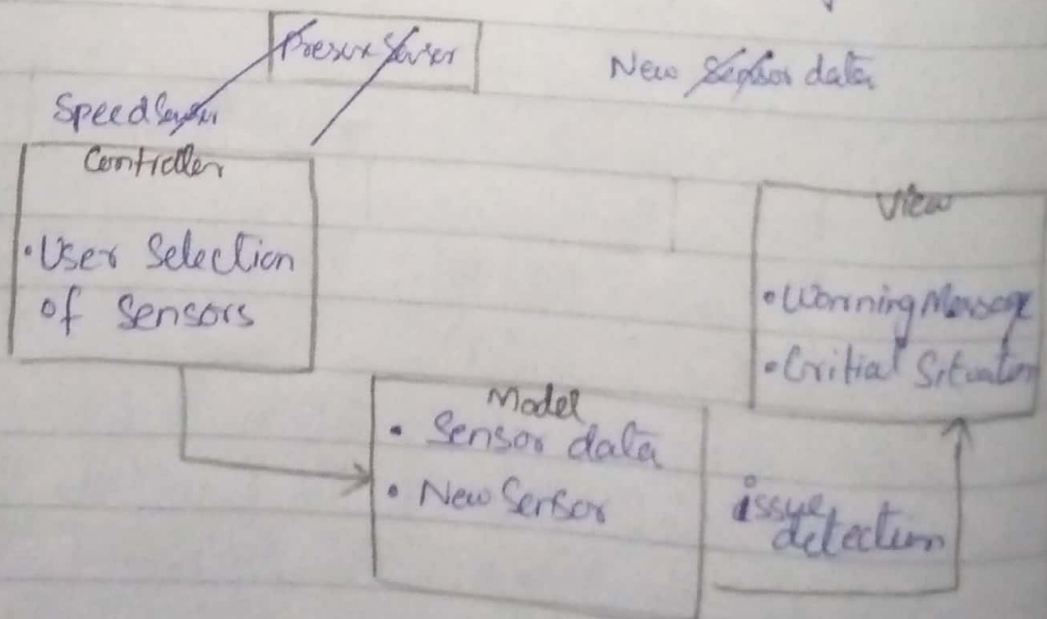
The fundamental architectural views proposed in Kouchen's 4+1 model are:

- (a) Logical Views: which tell abstraction of system.
- (b) Development View: which show the software decomposition for development.
- (c) Process View: It show runtime system composition of interacting components process.
- (d) Physical View: It show system hardware and system component distribution across system.

(b)

Model View Controller

- i - The most suitable is "~~Repository~~ Architecture"
- ii -



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ii). Advantage: The data of sensors are independent on each other.

Disadvantage: New data checkin not available.

(C)

Answer: To analyse the mandatory and optional choices, Design Model is the most suitable model because it incorporates data and Derived from analysis model of requirement. For design purpose, we will use Golden rules number 2 to reduce User Memory load.

Q # 4

(a)

Answer: Inspection is done to find defects.

It is widely used because it doesn't require execution of the whole system, therefore it can be done before implementing components.

Inspection can be done on any representation of system. The Errors which are unlikely to be discovered are the non-functionality, security, safety, performance of the system as it requires the whole system to be run.

Sahar

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(b)

Answer: Quality Management and Software development Process as can be relate as quality management is concerned to get the quality in product. It provide independent check on software development process.

It ensure that the project in development process must meet the organizational standards.

(c)

Answer: In object testing, the complete test of class is done. Testing of all the operation within object. Testing of all the attributes of object. Testing the required output by giving improper inputs. Testing of polymorphism and inheritance.

Sedma

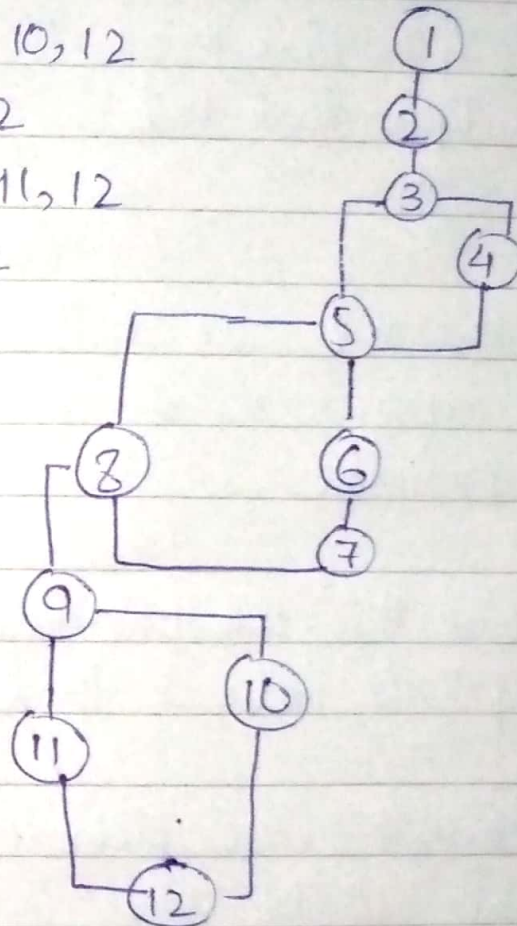
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(d)

Path testing:-

- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12
- 1, 2, 3, 4, 5, 8, 9, 10, 12
- 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12
- 1, 2, 3, 4, 5, 8, 9, 11, 12
- 1, 2, 3, 5, 8, 9, 10, 12
- 1, 2, 3, 5, 8, 9, 11, 12
- 1, 2, 3, 5, 6, 7, 8, 9, 10, 12
- 1, 2, 3, 5, 6, 7, 8, 9, 11, 12



① # 5

(a)

Risk # 1: Internet Provider didnot read enquiry and didnot put in database

Risk # 2: VPN doesnot provide plan for new electronic devices

Risk # 3: Utilized error email with different organizational in its supply chain

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(b)

Priority 1: Risk #1

Priority 2: Risk #3

Priority 3: Risk #2

(c)

For Risk #1, we mitigate to highlight the inquiries so it can be clearly read by provider.

For Risk #2, we mitigate the stability for private network that sends plans

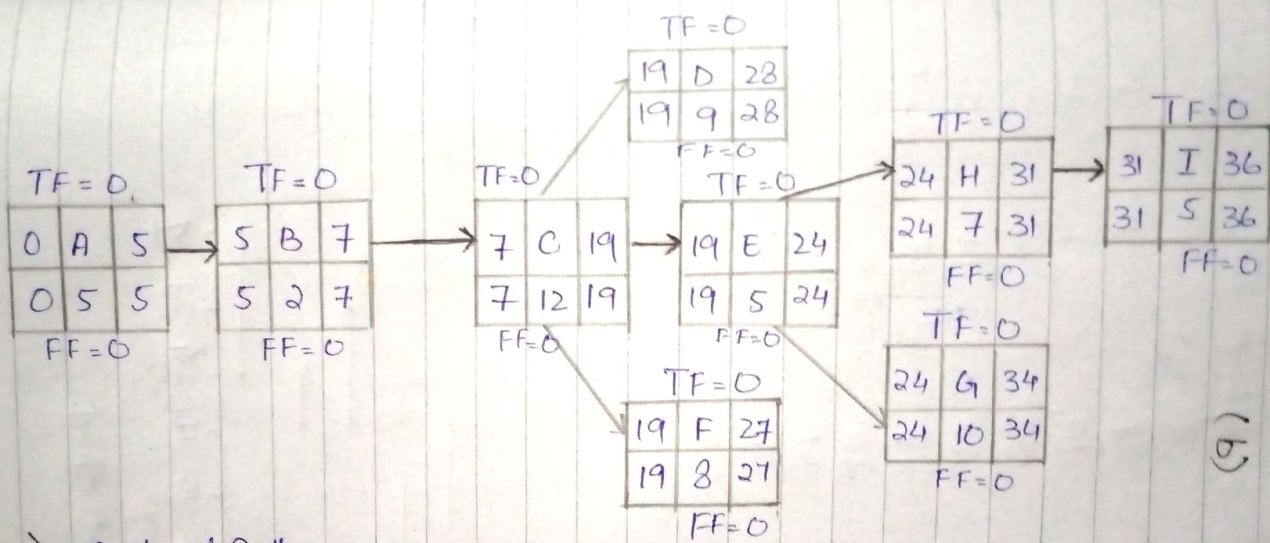
For Risk #3, we mitigate an email verification which will be send in supply chain

① #6

(a)

To be successful in project, the project need:-

- 1). Complete project on time
- 2). Project must meet its requirement



iii). Critical Path = A, B, C, E, H, I

(b)

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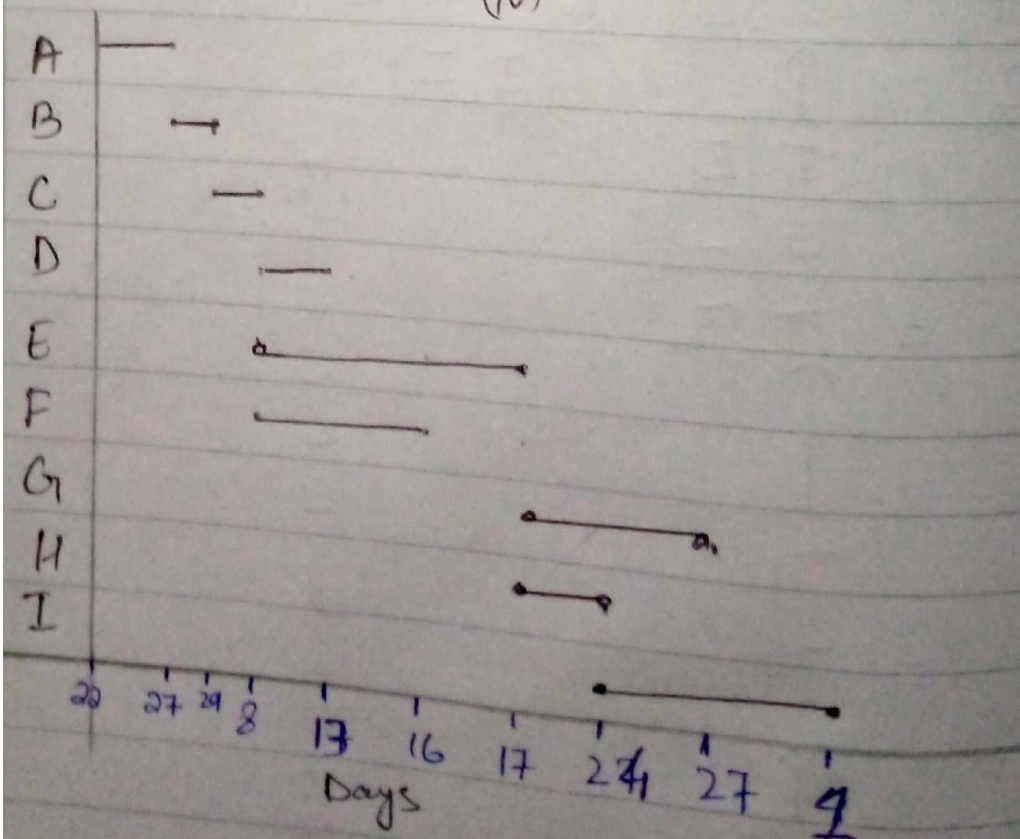
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ii).

	Early start	Early Finish	Late start	Late Finish
A	0	5	0	5
B	5	7	5	7
C	7	19	7	19
D	19	28	19	28
E	19	24	19	24
F	19	27	19	27
G	24	34	24	34
H	24	31	24	31
I	31	36	31	36

(iv)



Gantt chart

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(C)

Measurement Parameter	Cont	Single	Avg	Complex	Result	
1. Input files	11	3	x 4	6	44	
2. Output files	11	x	4	5	7	44
3. EQ	7	x	3	4	6	21
4. ILF	22	x	7	10	15	154
5. EIF	6	5	x 7	10	42	
Total cont		= 54		Cont total \Rightarrow 305		

FP = \sum

FP = 305