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Course Instructor: MMSU

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Marks Obtained

1	
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Signature of the Course Instructor

Ans to question NO: 1

(a) If new users are being increased at an alarming rate, then as a project manager I'll do the following —

- Investigate new efficient database available in market.

- If new database budget is affordable then purchase it.

- If funding is not enough for new database, then look for third party database in the market.

(b) If revenue model is changed then as a project manager I'll do the following —

- If revenue model is changed then the project fundings will also be changed. I'll try to show all the scopes and contribution of our project.

- I'll make a report stating how our project is going to be a profitable one.

- Re-organize financial spending in a more effective way.

Ans to question NO: 2

(i) This is a Functional requirement. As this is a functionality or feature of system. If this report on system usage does not generate, still the system will run. So, it is, a functional requirement.

(ii) This is a non-functional requirement. It is a dependability requirement as, the system will not be dependable if it is not available to users all the time. Then the system will be useless.

(iii) This is a functional requirement. As this is a feature for each clinic's staff to know who are attending. This does not fall under any constraints so this is a functional requirement.

(iv) This is a non-functional requirement. As privacy of information is a ethical requirement and property rights are regulatory requirement set by country. Both of them are non-functional requirement.

Ans to the question NO: 3

(i) For requirement documentation of user and system, requirement specification is most appropriate.

In requirement documentation, standard format is used. Computer jargon terms are avoided. Here, user requirements are clearly stated and system requirements are written in detailed.

(ii) For observing people at work, requirement elicitation is most appropriate.

In requirement elicitation, there is a technique called ethnography, which means observing people to understand what work processes they are doing.

(iii) For developing tests for requirements to check testability, requirement validation is most appropriate.

Test case generation is the technique for developing test case for the system. It is very important cause fixing a requirement error after delivery will cost many times more than fixing in implementation time.

Ans to question NO: 4

(i) In this scenario, organization process definition KPA is most appropriate.

In this KPA, standard software process is documented then it is developed and maintained in the long run.

(ii) In this scenario, software configaration management KPA is most appropriate.

Here, change request and problem reports are recorded. Then it is documented and plan to solve.

(iii) In this scenario, software product engineering KPA is most appropriate.

Here, ithe software requirements are tested to check their functionality.

(iv) In this scenario, intergroup coordination KAA is most appropriate.

Here, if dependencies are identified it is solved. Because if there are dependencies among groups then if one group is not available then work will be stopped.

(v) In this scenario, software quality management KPA is most appropriate.

Because in SQM the quality of software is evaluated using various methods.

(vi) In the given scenario, defect prevention KPA is most appropriate.

In defect prevention most common defects in system are identified first to solve.

(VII) In this scenario, training program KPA is most appropriate.

In training program, it first identify what training is needed for an individual then developing the training so that the individual is capable of the given role.

Ans to question NO: 5

(i) For this scenario, parallel approach can be implemented.

In parallel approach both old and new system runs at same time. So, if new system behaves abnormally then we can go back to old system entirely. For this reason user can learn new system at their own speed without fear.

(ii) If extra workers are not available for parallel runs then pilot approach can be used.

The available workers can launch the system new system among themselves to test. If everything works smoothly then they can launch it for everyone.

(iii) For this scenario, phased approach can be implemented.

In phased approach independent components of old system can be implemented in new system or it can be run parallely. Each independent components can be implemented on new or old system over the time.

Ans to the question NO: 6

(a) In this scenario, the software development project reside in system development phase.

In this phase, there is testing called module test, where each part of system is individually tested if they work correctly on not.

(b) In this scenario, the software development project reside is operation and maintanance phase.

The given scenario falls in periodic evaluation method. where developer will check the system time to time and if bugs are found then fix it.