

Total No. of Questions : 5]

SEAT No. :

PA-2557

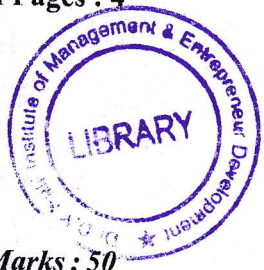
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M.C.A. -I (Management)

IT - 22 : SOFTWARE PROJECT MANAGEMENT

(2020 Pattern) (Semester - II)



Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Draw neat labeled diagrams wherever necessary.

Q1) Multiple choice questions (MCQ)

[20×½=10]

- a) Which of the following is not an attribute of a project.
 - i) Projects are unique
 - ii) Projects are developed
 - iii) Projects have primary customer or sponsor
 - iv) Project refinements
- b) Following is (are) the responsibility (ies) of the project managers
 - i) Budgeting & cost control
 - ii) Allocating resources
 - iii) Tracking project expenditure
 - iv) All of the above
- c) Which is/are ways to deal with risk?
 - i) Mitigate
 - ii) Contingency
 - iii) Transfer
 - iv) All of the above
- d) COCOMO predicts _____
 - i) Effort
 - ii) Effort & Schedule
 - iii) Cost & Effort
 - iv) Cost & Schedule
- e) Which mode you select for the project size 450 KLOC?
 - i) Organic
 - ii) Semidetached
 - iii) Embedded
 - iv) None of them
- f) Function count is developed by _____
 - i) Bary Bohem
 - ii) Alan Albrecht
 - iii) Pressman
 - iv) None of them
- g) Which of the following is not the level of CMM?
 - i) Defined
 - ii) Analysis
 - iii) Managed
 - iv) Optimizing
- h) An Agile approach values _____
 - i) Process over people
 - ii) People over process
 - iii) Plan over process
 - iv) Plans over people

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P.T.O.

- i) According to Agile manifesto _____
- Individuals & interactions over people & technique
 - Individuals & interactions over project & tools
 - Individuals & interactions over processes & tools
 - Individuals & interactions over products & tools
- j) The product backlog is ordered by _____
- Small items at the top to large items at the bottom
 - Safer items at the top to riskier items at the bottom
 - Least valuable items at the top to most valuable at the bottom
 - Whatever is deemed most appropriate by the product owner
- k) You can define agile team as “scrum team” & “technical team” _____
- True
 - False
 - Can not determine
 - None of these
- l) In scrum, when is sprint over?
- When all the sprint backlog items are completed
 - When the product owner suggests
 - When the time box expires
 - When the final testing is completed
- m) Which of the following is considered in a story point estimate?
- Only time to develop & test
 - Only effort to develop & test
 - Only time to develop
 - Time & effort to develop
- n) _____ enables team to learn from the mistakes done in the previous iteration.
- Pair grooming
 - Estimation during release planning
 - Estimation during iteration planning
 - Retrospective
- o) What is a burn down graph?
- A sprint plan which is burn to celebrate successful completion of sprint
 - Produce review meeting
 - A graph to measure human Burnout effort due to fast pace of sprint
 - The trend of work remaining across time in a sprint, a release or a product.
- p) In order to _____ the scope, project managers should compare performance reports with the project requirements.
- Fix
 - Control
 - Manage
 - Settle



- q) The reason for holding regular Retrospective is _____
- It allows the team to take necessary break from work
 - It gives management information to use in team member's performance reviews
 - It allows learning which can be used to improve team performance during project
 - It prevents deviation from the process which the team has been following
- r) Git is a _____
- Localized version control system
 - Distributed version control system
 - Centralized version control system
 - None of the above
- s) What is the main purpose of imposing limits on work in progress?
- To optimize through put
 - To minimize resource allocation
 - To visualize lead time
 - To balance workflow
- t) Tracking project issues in an Agile project is the primary responsibility of the _____
- Tester
 - Project leader
 - Functional Manager
 - Developer

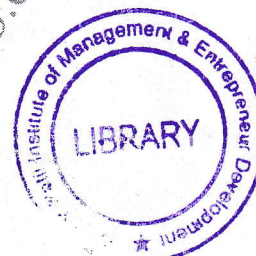
Q2) a) Uk based KPO company working on "License Management System". They are using number of expensive and licenced software tools. More than 5000 team members are sharing these tools. You have been deputed as project manager to ensure that a project finishesh within original budget, with the required scope of work and within the required timescales, and to ensure that throughout this process all the stakeholders, especially the client , are satisfied with the project results. [6]

Prepare Risk management process based on below points

- Risk identification
 - Risk Analysis
 - Risk mitigation
- b) Explain the benefits of Agile project management in brief. [4]

OR

Explain Agile reports in brief. [4]



Q3) a) Consider a project with the following functional units. [6]

- i) Number of user inputs = 15
- ii) Number of user outputs = 12
- iii) Number of user enquiries = 07
- iv) Number of user files = 20
- v) Number of external interfaces = 05

In addition to the above, system requires significant.

- Data communication (5)
- Performance is very critical (4)
- Designed code may be moderately reusable (2)

Other complexity factors are treated as Average.

Compute the functional point for the project.

b) What are the various agile principles? [4]

OR

Differentiate agile project management Vs traditional project management.

[4]

Q4) a) Explain the roles of Scrum Master, product owner, and development team in agile. [6]

OR

What are the various techniques to estimate story points in agile? [6]

b) Write short note (any one) [4]

- i) Agile tools
- ii) Git hub

Q5) a) Explain the process to plan & execute iteration in agile. [6]

OR

How to facilitate retrospective process in agile management with suitable example. [6]

b) Write short note (any one) [4]

- i) Overview of project management framework
- ii) Capability Maturity Model.

