

March / April - 2022

Total No. of Questions : 5]

SEAT No. :

P6984

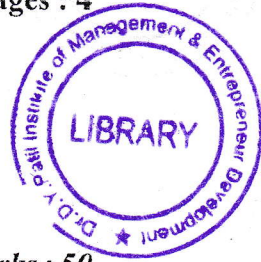
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F.Y.M.C.A. (Management)

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's).

[20×½=10]

- a) Which of the following option is used to measure the size of a user story for an agile project?
 - i) Story points
 - ii) Function points
 - iii) Velocity points
 - iv) Work
- b) Which of the following is not an attribute of a project?
 - i) Projects are unique
 - ii) Projects are developed
 - iii) Projects have primary customer
 - iv) Project refinements
- c) If a team can complete 10 story points in an iteration then how long will it take for the team to complete 100 story points?
 - i) 10 waves
 - ii) 10 iterations
 - iii) 20 waves
 - iv) 20 iterations
- d) Following is (are) the responsibility (ies) of the project manager.
 - i) Budgeting and cost control
 - ii) Allocating resources
 - iii) Tracking project expenditure
 - iv) All of the above
- e) What are the fixed-length of development iterations called in DSDM methodology?
 - i) Timeboxes
 - ii) Sprints
 - iii) Units
 - iv) Versions
- f) Function count is developed by _____.
 - i) Bary Bohem
 - ii) Alan Albrecht
 - iii) Pressman
 - iv) None of the above

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- g) Which command creates an empty git repository in the specified directory?
- i) git init
 - ii) git vog
 - iii) git reset
 - iv) none of the above
- h) Which mode you select for the project size 450 KLOC?
- i) Organic
 - ii) Semi-detached
 - iii) embeded
 - iv) None of them
- i) Which of the following git command that download your repository from github to your computer?
- i) git fork
 - ii) git commit
 - iii) git close
 - iv) git push
- j) COCOMO predicts _____.
- i) Effort
 - ii) Effort & schedule
 - iii) Cost & effort
 - iv) Cost & schedule
- k) The working culture of an Agive team is _____.
- i) Collective
 - ii) Collaborative
 - iii) Connective
 - iv) Contemplative
- l) _____ enables team to learn from the mistakes dose in the previous iteration.
- i) Pair grooming
 - ii) Estimation during release planning
 - iii) Estimation during iteration planning
 - iv) Retrospective
- m) You can define agile team as “scrum team” and “technical team” _____.
- i) True
 - ii) False
 - iii) Can not determine
 - iv) None of the above
- n) Tracking project issues in an agile project is the primary responsibility of the _____.
- i) Tester
 - ii) Project reader
 - iii) Functional manager
 - iv) Developer
- o) What is the main purpose of imposing limits on work in project?
- i) To optimize throughput
 - ii) To minimize resource allocation
 - iii) To visualize lead time
 - iv) To balance workflow

- p) Select the option that suits the manifesto for agile software development.
- i) Working software
 - ii) Individual and Integration
 - iii) Customer collaboration
 - iv) All of the above mentioned
- q) Delphi method is used for _____.
- i) Judgemental forecast
 - ii) Time series forecast
 - iii) Associative model
 - iv) All are the correct
- r) Git is a _____.
- i) Localised version control system
 - ii) Distributed version control system
 - iii) Centralized version control system
 - iv) None of the above
- s) In scrum, when is sprint over?
- i) When all the sprint backlog items are completed
 - ii) When the product owner suggests
 - iii) When the time box expires
 - iv) When the final testing is completes
- t) Which of the following is not the level of CMM?
- i) Defined
 - ii) Analysis
 - iii) Managed
 - iv) Optimizing

Q2) a) A large construction company engaged in real estate construction business decided to develop ERP through Astha softech. The output of system will be cost sheets detailing the relevant information for contracting, budgeting, progress monitoring and bill payment. Astha softech team has no domain knowledge. As a project manager, you have been asked to suggest risk management strategy after identifying the risk. [6]

b) Explain the benefits of Agile project management in brief. [4]

OR

b) Explain sprint retrospective in detail.

Q3) a) A project of 200 KLOC is to be developed. Software development team has average experience on similar type of projects. The project schedule is not very right. Calculate the effort, development time, average staff size of the project by using semi-detached mode of cocomo model. [6]

b) Differentiate : Agile project management v/s Traditional project management. [4]

OR

b) Explain Agile project management life cycle.



Q4) a) Demonstrate value-driven development with suitable example. [6]

OR

Explain the roles of scrum master, product owner and development team.

b) Write short note (any one). [4]
i) Agile tools.
ii) GitHub.

Q5) a) Explain release planning and iteration (Sprint) planning in brief. [6]

OR

Explain the process to plan and execute iteration in agile with suitable example.

b) Write short note (any one). [4]
i) Role of project manager.
ii) Software configuration management.

