[5865]-202

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

P.T.O.

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 agive 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.

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