

MAR/APR/2024

Total No. of Questions : 5]

SEAT No. :

PB833

[6204]-22

[Total No. of Pages : 7

First Year M.C.A.(Management )  
IT-22 : SOFTWARE PROJECT MANAGEMENT  
(Revised 2020 Pattern) (Semester - II)



Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Draw neat diagrams whenever necessary.
- 3) Use of scientific calculator is allowed.

Q1) a) ABC Bank decided to develop their core banking software which has been decided for in house development. As a project manager, you have been asked to suggest risk management strategy after identifying the risks. [6]

b) Explain the role of GitHub in software development. [4]

OR

a) Explain project management life cycle with suitable example. [6]

b) Write & explain any 4 quality metrics. [4]

Q2) a) Explain capability maturity model with its KPA's. [6]

b) Write short note on software configuration management. [4]

OR

a) The size of organic software product has been estimated to be 33k line of code. Assume that the average salary of software engineer is 25000/- per month. Determine the effort required to develop the software product, cost of it and the nominal development time. [6]

b) Explain Agile reports in brief. [4]

Q3) a) Write a user story for the below operations with Google pay. [6]

i) Add a beneficiary account for transfer of fund and perform the transfer of funds.

ii) Login and check the account balance.

b) Explain planning poker story point estimation technique. [4]

OR

P.T.O.

- a) A project of 400 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 effect development time, average staff size of the project by using semi-detached mode of cocomo model. [6]
- b) Write a short note on Agile life cycle. [4]
- Q4)** a) Explain the role of project manager. [6]
- b) Explain the process to plan and execute iteration in agile with suitable example. [4]

OR

- a) Explain the roles of scrum master, product owner and development team. [6]
- b) Write short note on Agile Reports. [4]
- Q5)** a) Calculate FPA if all complexity adjustment factors and weight adjustment factors are average for following values: Input = 10, Output = 30, Inquiry = 50, Interface = 10, User file = 20. [6]
- b) Explain Agile Manifesto and Agile principles. [4]

OR

- a) Explain the process of Retrospective, making Team Decisions and closing out Retrospective. [6]
- b) Differentiate between Agile Project Management V/S Traditional Project Management. [4]

