GALGOTIAS UNIVERSITY

School of Computing Science and Engineering

Master of Computer Applications
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem II - E1PY208T - MCAN1240 - Software Engineering and Testing

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	What is a Software, and attributes of good software ?	K1(2)
2)	Explain the purpose of performance testing in software development.	K2(4)
3)	Outline the different types of software maintenance activities?	K2(6)
4)	Apply the COCOMO model to estimate the effort required for a project that is classified as 'organic' and consists of 32,000 lines of code (LOC). Use the basic COCOMO model formula. For an organic project, the typical values of A and B are 2.4 and 1.05	K3(9)
5)	A software project is estimated to require 500 person-days of effort. If the team consists of 5 developers, solve how many days will it take to complete the project?	K3(9)
6)	Determine the process of analyzing function point metric of a software?	K5(10)
7)	Compare and contrast black box testing and white box testing, illustrating each with a relevant example.	K4(12)
8)	Evaluate the effectiveness of the Spiral model in managing project risks compared to other models.	K5(15)
9)	Evaluate the impact of using the Prototyping model on user satisfaction and acceptance of the final product.	K5(15)
10)	Elaborate the waterfall model in detail.	K6(18)