TKM COLLEGE OF ENGINEERING, KOLLAM-5
Department of Computer Applications
II Semester MCA
Internal Assessment (Series Test-I) Mar 2020
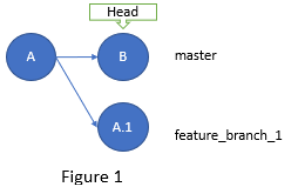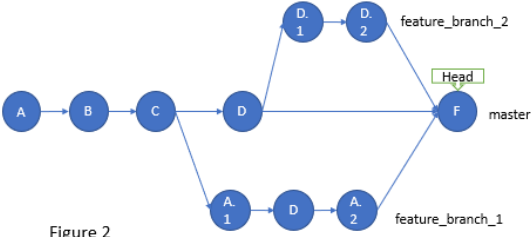**Course with Code: RLMCA**

Time: 2Hrs   **Maximum Marks: 30**

Qn. No.	PART – A Answer all questions	Mark	BL	CO
1 a.	"A **smaller and frequent delta** between releases is often preferred over bigger ones". Do you agree with this proposition? Justify your stand. [Hint: Delta here means changes(or differences) between subsequent releases/ versions]	3	L4	1
b.	How are **annotated tags** different from **lightweight tags**?	3	L1	2
c.	With an example explain how **cherry picking** is a very powerful feature in GIT.	3	L2	2
d.	How is **building** your code different from **compiling** your code? List the names of any two build tools you are familiar with. Also mention the name of the programming language(s) they support.	3	L2	3
	PART – B Answer any **three** full questions from Module **I, II** and **III**			
	MODULE-I			
2 a.	Your company has certain decisions to make regarding their current projects. The project involves adding features to a **critical software** that was first developed in **1985.** Project is expected to go on for at least **five more years**. Also, your development team is stationed in four different locations across the world, with two of these locations having **unstable internet connections**. Given the above conditions answer the following questions: i) Would you prefer to use a **distributed or centralized** version control system for the project? ii) Would it be wise to **introduce automated testing** in this project? **Justify your answers and also state some of the challenges that need to addressed in each of the above questions.** **OR**	 3 3	 L3 L3	1
2 b.	i) Why is the traditional view of release candidate not suitable with the modern approach to software development?	2	L2	1
	ii) Very briefly and intuitively explain Brian Marick's classification of software testing methodologies using his testing quadrant diagram.	4	L2	

	MODULE-II			
3 a.	Starting from the Commit graph given in figure 1, mention the workflow and the git commands that can take you to the commit graph given in figure 2. [Note: There is no need to specify the features added in each new version] Figure 1 Figure 2	6	L4	2
	OR			
3 b.	Differentiate between the following GIT operations: i) PUSH and COMMIT ii) FETCH and PULL iii) REBASE and MERGE	 2 2 2	L2	2
	MODULE-III			
4 a.	When deploying software into production, why are the following considered essential practices? i) Deploying using the same script in every environment. ii) Using OS packaging tools for packaging your software.	 3 3	L4	3
	OR			
4 b.	Bringing to light the roles of **artefact repository** and **version control system**, elucidate how a project moves through a basic software deployment pipeline.	6	L2	3

Prepared By: **Verified By:**   **Approved by DQAC**

H A Rahulnath,
Asst. Professor,

Name of Student: .... *Roll No:*................................

Department of MCA