Programme	Computer Science & Engineering	Semester		V
Course	Full Stack Development	Max. Marks		30
Course Code	20CS52I	Duration		4 hours
Name of the course coordinator	Anil Kumar K			

Note: Answer one full question from each section.

Qn.No	Question	CL L3 /L4	CO	PO	Marks
	Section-1 (Theory) – 10 Marks				
1.a)	1. Explain how digital transformation can bring revolution in teaching learning process.	L4	1	1	5
b)	How DevOps enables faster development of new products and easier maintenance of existing deployments?	L3	1	4	5
2.a)	Passwords alone fail to provide protection because they can be guessed and phished. How to strengthen authentication for a banking portal?	L3	1	2	5
b)	The cloud is a hot topic from small businesses to global enterprises. If an organization begins to consider switching its business to the cloud, it is crucial to understand the differences and advantages of the various cloud services. The three main cloud services to consider are IaaS, PaaS and SaaS. For each of these service types, which of the following are managed by you as a consumer and service provider. **Applications, Virtualization, Operating System, Storage, Networking, Data, Server.**	L4	1	4	5
	Section-2 (Practical) - 20 Marks				
4)	eDesert is an online shopping application. This application allows users to log in for buying deserts. Users can search for a desert, sort the desert list based on rating or price. Users can select the items and add them to the cart. Once the selection is	L3	5	4	20

	done, users can go to the cart page for payment. Identify and write the user stories for this application				
5)	Identify the tasks involved in the process of receiving Admission Ticket for semester exams in your college. Which of the identified tasks can be automated and identify different modules and write user stories.	L3	5	4	20
6)	BookingHall is an online hall booking application that helps its users to book hall for functions across Karnataka. This application allows users to log in for booking a hall. Users can find the halls in a specific locality. Once found, user can check the availability of a hall for specific dates. Users can block a hall for required duration. Once blocked, user can get the booking details. Identify and write the user stories for this application.	L3	5	4	20
7)	In an open-source community, many developers contribute to an application. A new contributor develops a feature 'A' and wants to commit to master repository. As an admin you have to make sure that only reviewed code is committed to master branch.	L3	4	2	20
8)	Create repository named mini project clone, commit, push, branch and merge in to github.	L3	4	2	20
9)	Setup a virtual machine and create a simple webapp using cloud services.	L3	5	4	20

Course Coordinator(STAFF   **P C (HOD)**   **Principal**