## **Department of Electrical Engineering Final Term Assignment Spring 2020** B.tech(E)

Date: 22/06/2020

<u>Course Details</u>				
Course Title: Instructor:		Electromagnetic Fields Engr.Perniya Akram	Module: Total Marks:	4th 50
		Student Details		
Name:			Student ID:	
Note: Attempt all of the following questions.				
Q1.	State the differences and similarity between gradient and divergence providing relevant example.			Marks 10
Q2.	Find gradio	ent of function F at point(1,1,2) for $F=x^3+y^3z$ .		Marks 10
Q3.	Compute d	$\mathrm{liv}ec{F}$ and $\mathrm{curl}ec{F}$ for $ec{F}=x^2yec{i}-ig(z^3-3xig)ec{j}+ig$	$-4y^2ec{k}$ .	Marks 10
Q4.	State the re	lationship between electric potential and potential	difference with examples.	Marks 10
Q5.	Find the exp	pression for moving a point charge Q from one poal.	sition to another by using	Marks 10