B.Tech. 2nd Semester F-Scheme

(Common for All Branches) Examination,

May-2019

MATHEMATICS-II

Paper-Math-102-F

Time allowed : 3 hours] *[Maximum marks : 100*

Note : *Attempt **five** questions in total selecting **one** question from each section. **Question No. 1 is compulsory.***

1. (a) Give physical interpretation of gradient and divergence.

(b) Solve $(D^2 + 4)\, y = \cos 2x$.

(c) find the Laplace transform of $e^{-3t} \cos^2 t$.

(d) Form the partial differential equation by eliminating the function f from the relation

$$z = y^2 + 2\, f\left(\frac{1}{x} + \log y\right)$$

Section-A

2. (a) Find the values of constants a, b and c so that the maximum value of the directional derivative of :

$$\phi = axy^2 + 6yz + cz^2 x^3 \text{ at } (1, 2, -1)$$

has a magnitude 64 in the direction parallel to z–axis.

Roll No. .....

12049

MBA 2 Year 3rd Semester (CBCS)

Examination – May, 2019

PROGRAMMING IN ORACLE

Paper : 17IMG23GT2

Time : Three Hours] *[Maximum Marks : 50*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : **Section – A** is ***compulsory***. Attempt ***one*** question from each Unit in **Section – B**. All questions carry equal marks.

SECTION – A

1. (a) State the differences between SQL and PL/SQL

(b) Distinguish between DDL and DML.

(c) How do we modify a table using SQL command ?

(d) How is SQL *PLUS invoked ?

(e) What are cursors in PL/SQL ?