



Faculty of Computers & Artificial Intelligence

2st Term (2019-2020) Final Exam

class: general year: 2nd year

Course Code:

Course name: Math4



Benha University

Final Date: 7 / 6 /2020

Total Marks: Pass / Fail

Examiner(s): Dr. Ahmed Megahed

Dr. Mostsfa Hassan

Research submission: From 31 May to 7 June 2020

a) Write a research project in ONE of the following topics:

Topic No. 1

Write a research project in the methods of solution of non-homogenous, second order ordinary differential equations with variable coefficients and the properties of the Laplace transform.

Topic No. 2

Write a research project in the methods of solution of homogeneous, second order ordinary differential equations with constant coefficients and the properties of beta and gamma functions.

Topic No. 3

Write a research project in the properties of Bessel functions and the methods of solution of non-homogenous, second order ordinary differential equations with constant coefficients.

b) Notes: please, your research must contain the following elements:

- Related examples
- References

GOOD LUCK,

Examiner(s)

Dr. Ahmed Megahed

Dr. Mostsfa Hassan

Head of Departement