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| Department of Basic Sciences & Humanities  University of Asia Pacific(UAP)  Program: B.Sc. in Computer Science & Engineering   |  |  |  | | --- | --- | --- | | Mid Examination | Fall 2020 | 2ndYear 2ndSemester | | Course Code: MTH-205 | Course Title: Math-IV | Credit: 3 | | Full Marks: 60 |  | Duration: 1.00 Hr | |

There are **Four** questions. Answer **Three questions including 3 and 4**. All questions are of equal values, indicated in the right margin.

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| **1.** | **(a)** | Solve the differential equation: | | **10** | |
| **(b)** | Find the inverse Laplace Transform of the followings | | **10** | |
|  |  | **OR** | |  | |
| **2.** | **(a)** | Find the differential of a circle whose center on the y-axis and passing through the origin. | | **10** | |
|  | **(b)** | Find the inverse Laplace Transform of the followings | | **10** | |
|  |  |  | |  | |
| **3.** | **(a)** | Solve the differential equation: | | **10** | |
|  | **(b)** | Solve the differential equation: | | **10** | |
| **4.** | Find the Laplace Transform of the followings | | | **20** | |
|  | | |  | |