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| 1075717_549909255068252_805887821_n.jpg | | **http://upload.wikimedia.org/wikipedia/commons/9/9c/Inu_peshawar_logo.gifIqra National University, Peshawar**  **Department of Electrical Engineering**  **Assignment**  **Date:20/4/2020** | | | | | | | | | | |
| **Course Code:** | | MTH 102 | |  | | | | **Course Title:** | | Calculus and analytic geometry | | |
| **Prerequisite:** | |  | | | | |  | **Instructor:** | | HIMAYATULLAH | | |
| **Module:** | | 3 | **Program:** | | BEE | **Total Marks:** | | | 30 |  |  | |

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| Q1. | (a) | . **Identify** | Marks 5 |
| CLO1 C1 |
|  | (b) | Find the first order derivatives of the function | Marks 5 |
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| CLO1  C1 |
| Q2 | (a) | . A dynamite blast blows up a heavy rock with launch velocity of 160m/sec reaches a hight of ft after t sec,   1. How high does the rock go 2. Find the velocity and speed of the rock when it is 256 ft above the ground on the way up and down 3. find the acceleration of the rock at time 5sec | Marks 10 |
| CLO2  C2 |
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| Q3 | (a) | Does the curve have nay horizontal tangent if so where ? | Marks 10 |
| CLO1  C1 |
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