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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****Mid – Term Examination summer2020****Date:22/8/2020** |
| **Course Code:** | MTH 203 |  | **Course Title:** | Differential equation |
| **Prerequisite:** | CALCULUS |  | **Instructor:** | HIMAYATULLAH |
| **Module:** | 3 | **Program:** | BEE | **Total Marks:** | 30 | **Time Allowed:** |  |

Note: Attempt all questions.PLO: program learning outcome C:Cognitive

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| Q1. | (a) | . Estimate the general solution of $y^{/}=(x+2)y^{2} $.  | Marks 5 |
| PLO1 C2 |
|  | (b) | . Estimate the general solution of $y^{/}=(y+9x)^{2}$  . | Marks 5  |
| PLO1 C2 |
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| Q2 | (a) | . Estimate the general solution of $x^{3}dx+ y^{3}dy=0$ | Marks 10 |
| PLO1C2 |
| Q 3 | (a) |  Find the general solution 4$y^{˶}-20y^{ˊ}+25y=0 $  | Marks 5  |
| PLO1C2 |
|  | (b) | Estimate general solution of $4y^{˶}-6y^{ˊ}-7y=0 $.  | Marks 5 |
| PLO1C2 |
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