# NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA 

(An Autonomous Institute)

## Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow <br> B.Tech <br> FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)

(Subjective Type)
Subject Code: AAS0204
Subject: Mathematical Foundations - II

Max. Mks. : 30
Time : 50 Minutes

General Instructions:
All questions are compulsory.
Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

| Q.No | Question <br> Content | Questio | Category | Sub Category | Marks | Options Randomization | Type | Difficulty |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | Evaluate the integral $\int_{0}^{1} \int_{0}^{1} \frac{d x d y}{\sqrt{1-x^{2}} \sqrt{1}}$ | Attempt any 10 questions | $10 \times 3=30$ | 3 |  | Subjective | Brilliant |
| 2 |  | Change the order o in ineygation $\int_{0}^{d} \int_{0}^{x} f(x, y) d y d x$ | Attempt any 10 questions | $10 \times 3=30$ | 3 |  | Subjective | Brilliant |
| 3 |  | Evaluate $\int_{0}^{1} x^{4}(1-x)^{3} \mathrm{~d} x$ | Attempt any 10 questions | $10 \times 3=30$ | 3 |  | Subjective | Brilliant |
| 4 |  |  andoreaditajumsars | Attempt any 10 questions | $10 \times 3=30$ | 3 |  | Subjective | Brilliant |
| 5 |  | independent variable. | Attempt any 10 questions | $10 \times 3=30$ | 3 |  | Subjective | Brilliant |



