

Jagannath University, Dhaka

Department of Mathematics

Preparatory Examination -3 (Area in Cartesian and Polar Coordinates)

Course code: MTH 1202

Course Title: Calculus II

Time: 2.0 hrs

Full Marks: 100

N.B.: Answer all the questions.

- | | <i>Marks</i> | | | | | | | |
|---|--------------------------|-------------------------------|--|-------------------------------|--|-----------|--------------------------|-------------------------------|
| 1. Sketch the region enclosed by the curves $y = 2 + x - 1 $, $y = -\frac{1}{2}x + 7$ and find its area. | [10] | | | | | | | |
| 2. Estimate the area enclosed by the graphs of $\phi(y) = y^2 - 1$ and $\psi(y) = y^2 - \frac{1}{8}y^4 + 1$. | [10] | | | | | | | |
| 3. Estimate the area enclosed by the graphs of $\xi(x) = x\sqrt{1-x^2}$ and $\mu(x) = \frac{1}{2}x$. | [10] | | | | | | | |
| 4. Find the area between the curves and their asymptotes $xy^2 = 4a^2(2a - x)$, where $a = (ID + 1)$ th prime number, ID = last digit of your student ID. | [10] | | | | | | | |
| 5. Sketch the polar curves: | [20] | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; text-align: center;">Even Roll:</td> <td style="width: 20%;">(i) $r = a \cos 3\theta$</td> <td style="width: 20%;">(ii) $r = a(1 + \sin \theta)$</td> <td rowspan="2" style="width: 40%; text-align: center; vertical-align: middle;">where $a = ID + 2$, ID = last digit of your student ID.</td> </tr> <tr> <td style="text-align: center;">Odd Roll:</td> <td>(i) $r = a \sin 3\theta$</td> <td>(ii) $r = a(1 - \sin \theta)$</td> </tr> </table> | | Even Roll: | (i) $r = a \cos 3\theta$ | (ii) $r = a(1 + \sin \theta)$ | where $a = ID + 2$, ID = last digit of your student ID. | Odd Roll: | (i) $r = a \sin 3\theta$ | (ii) $r = a(1 - \sin \theta)$ |
| Even Roll: | (i) $r = a \cos 3\theta$ | (ii) $r = a(1 + \sin \theta)$ | where $a = ID + 2$, ID = last digit of your student ID. | | | | | |
| Odd Roll: | (i) $r = a \sin 3\theta$ | (ii) $r = a(1 - \sin \theta)$ | | | | | | |
| 6. Find the area of the region inside the rose $r = 2a \cos 2\theta$ and outside the circle $r = a\sqrt{2}$, where $a = ID + 1$, ID = last digit of your student ID. | [10] | | | | | | | |
| 7. Find the area of the part of the circle $r = \sin \theta + \cos \theta$ in the fourth quadrant. | [15] | | | | | | | |
| 8. Find the area under one arch enclosed between the cycloid $x = a(\theta - \sin \theta)$, $y = a(1 + \cos \theta)$ and its base, where $a = (ID + 3)$ th Fibonacci number, ID = last digit of your student ID. Choose first two terms of Fibonacci series 0 and 1. | [15] | | | | | | | |

Best of Luck

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H Kauffman



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