

ANNAMALAI UNIVERSITY
DIRECTORATE OF DISTANCE EDUCATION
010 – B.Sc., Mathematics
Third Semester 2022-2023
INTERNAL ASSESSMENT – ASSIGNMENT TOPICS

This booklet contains assignment topics for the Third semester. Students have to write and submit assignment for FIVE papers as per the instructions given below.

1. Assignment should be in the own handwritten of the students concerned and not type-written or printed or photocopied.
2. Assignment should be written only A4 paper on one side.
3. All assignments (with enrollment number marked on the top right hand corner on all pages) should be put in an envelope with superscription “**B.Sc., Mathematics - Assignments**” and send to **The Director, Directorate of Distance Education, Annamalai Nagar -608 002** by registered post.
4. No notice will be taken on assignments which are not properly filled in with enrolment number and the title of the papers.
5. Students should send full set of assignments for all papers. Partial assignments will not be considered.

ASSIGNMENT INSTRUCTIONS

You are expected to write the answers for all the FIVE questions for each course.

Each answer should not exceed 5-pages.

Each assignment carries 25 marks (5 questions X 5 marks = 25 marks)

Date to Remember

Last Date for Submission: **01/11/2022**

Last Date for submission with late fee Rs.300/-

Assignment sent after **15/11/2022** will not be considered for valuation

Dr. R.SINGARAVEL
Director

ASSIGNMENT TOPICS

இரண்டாம் ஆண்டு – Part –I Tamil-III

மூன்றாம் பருவம்

தாள் : 010E2310 - உரைநடை நாடகம்

(5x 5= 25)

- 1) பெண்ணுரிமைச் சிந்தனைகள் பற்றி மாதவையாவின் கருத்துக்களை விளக்கி எழுதுக
- 2) கயற்கன்னி நாடகம் சங்க நூற்கருத்துக்களுக்கு எங்கனம் இடமளித்துள்ளது.
- 3) கைகேயின் கொடுமையைப் பேராசிரியர் எவ்வாறு புலப்படுத்துகிறார்.
- 4) இராவணன் தூய்மை குறித்து மாணிக்கனார் விளக்கும் செய்திகளை தெளிவுபடுத்துக.
- 5) கயற்கன்னி நாடகப் பாத்திரப்படைப்பின் சிறப்பினை எடுத்துரைக்க.

(5 x 5 = 25)

COURSE: 010E2320 – English through Literature-III (Drama)

Write in about 250 words on the following topics:

1. Shakesperean Comedy.
2. Character of Rosalind
3. Character of Orlando.
4. The Title of the Play, *As You Like It*
5. Phrases and Clauses.

(5 x 5 = 25)

Course: 010E2330: Advanced Calculus

1. Solve $ydx - xdy + \log x dx = 0$.
2. Solve $(D^2 - 2D + 2)y = 3x \sin x$.
3. Solve $yzp + zxq = xy$.
4. Obtain the Fourier series of $f(x) = x^2$ in $-\pi < x < \pi$ and hence show that

$$\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \dots = \frac{\pi^2}{6}.$$

5. Find (i) $L^{-1} \left(\frac{1}{(s+1)(s+2)(s+3)} \right)$.
(ii) $L^{-1} \left(\frac{1}{s^2 - 4s + 20} \right)$.

(5 x 5 = 25)

Course: 010E2340: Programming in C and C++

1. Explain the control structures of C++ with suitable examples.
2. Define multilevel inheritance. Explain with program.
3. How to initialize a pointer?
4. Define constructor.
5. Explain in detail about features of object oriented programming.
