

ANNEXURE-2



GOVERNMENT COLLEGE OF ENGINEERING, YAVATMAL.
(Naringe Nagar , Dhamangaon Road Yavatmal-445001)
Mid-Semester Examination (Odd/Even - 2021-22)
(Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere)

Branch: Computer engineering

Course Code : BTCOC601
Time : 01.00 Hour
Semester : 6th

CourseName: _compilerDesign
Max. Marks : 20
Date: 2/5/2022

Instructions:

- 1) All questions are compulsory.
- 2) Illustrate your answers with neat sketches wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of non-programmable calculator is permissible.
- 5) Assume suitable data if necessary.

		Attempt any TWO of the following	(08)	COs
Q1	a)	Do left factoring in the following grammar: A → aAB aA a B → Bb b	04	CO...
	b)	Consider the following Grammar: A → ABd Aa a B → Bb b Remove left recursion.	04	
	c)	Write a short note on: Predictive LL(1) parser (working)	04	
Q2		Attempt any ONE of the following	(06)	
	a)	Let G be a Context Free Grammar for which the production Rules are given below: S → aB bA , A → a aS bAA , B → b bS aBB Drive the string aaabbabbba using the above grammar (using Left Most Derivation and Right most Derivation).	06	CO....
	b)	Describe compiler construction tool in detail.	06	
Q3		Attempt any ONE of the following	(06)	
	a)	Show the following Grammar: S → AaAb BbBa , A → ε , B → ε Is LL(1) and parse the input string "ba".	06	CO....
	b)	What is compiler and Differentiate between types of compiler. And write down compiler time errors.	06	

Course Outcomes (Statement)

CO1	The graduates will have an ability to apply mathematical formalism of Finite Automata and Probability in modeling and analysis of systems.
CO2	The graduates will have an ability to analyze problem, specify algorithmic solutions to them and to evaluate alternative solutions.
CO3	The graduates will possess the knowledge of various discrete mathematical structures, Logic and numerical techniques.

Marks distribution

	CO1	CO2	CO3
Q.1	4	4	4
Q.2	3	1	
Q.3	3	1	
Marks	10	6	4