ACAD-27 a)	Shri Ramdeobaba College of Engineering and Management, Nagpur – 440013		Iss. No.: 01, Rev. No.: 00
Ref. Clause(s): 9.1			Date of Rev: 01/01/2018
Department: Computer Science and Engineering	Semester : VI Semester Shift: II Course Code: CST 358 Course Name: Compiler Design		Page: 01/01
Programme: B.E.(CSE)	Test: 1		Date of Exam: 04/02/2022
Max Marks:15	Session: 2020-21		Time: 1Hr.

		Questions		CO/EO
Q.1) a)		For the following grammar: **Construct LL(1)** Parse. A → B C c | g D B B → b C D E | ε C → D a B | c a D → ε | d D E → E a f | c Draw the parsing table	04	CO2/L4
Q.1) b)		For the following grammar, construct the LR(0) parser. E → E + T | T T → T * F | F F → (E) | id Perform Augmentation, Closure, and GOTO operations.	04	CO2/L4

Q.1) c)		Differentiate between top-down and bottom-up parser, with respect to:
		    i) String derivation
		    ii) Error Management
			01	CO2/L4

		Solve any one		
Q.2) a)		Convert the following regular expression into **DFA** using nullable, firstpos and followpos method. **(a | b)* b* a b #**	04	CO1/L3
		OR		
Q.2) a)		For the following instruction: design phase-wise output generated by each phase of the compilation process. **Amount=Prin + int * 0.5**	04	CO1/L3
Q.2) b)		Define Cross Compiler and Bootstrapping. Use suitable examples to explain the purpose of cross compiler and bootstrapping in current trends of technology	02	CO1/L3