

**Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur**

**Academic Session 2021-2022**

**Bachelor of Science (B. Sc.) (Semester-VI)**

**COMPUTER SCIENCE Paper-I-Compiler Construction**

**UNIT TEST on Unit I and II**

Time: 45 min.]

[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. Write short note on bootstrapping and bookkeeping. 5  
Or
2. What is token ? List different types with one example. In which phase of compilation, tokens are generated and how ? 5
3. What is code optimization phase ? Why is it needed ? 5  
Or
4. Briefly explain the following : (i) Table Handling (ii) Error Handling.
5. What is parameter transmission ? Explain the following :  
(i) Call-by-value (ii) Call-by-reference. 5  
Or
6. Discuss salient features of good programming language. 5
7. Explain basic data structures in brief. 5  
Or
8. What are the types of statement ? Explain simple and compound statement with example. 5



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Academic Session 2021-2022

Bachelor of Science (B. Sc.) (Semester-VI)

COMPUTER SCIENCE Paper-I-Compiler Construction

UNIT TEST MARKS OUT OF 20

Name of Teacher: Dr. A. A. Halder

Date:16/02/2022

S.N.	Name of Student	Paper-I Test Based on Unit I And II
1	Aditya M. Bansule	20
2	Abhinav D Kawale	19
3	Adina J Anwar	A
4	Aditi H Gokhe	8
5	Aditya P Ardak	20
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Academic Session 2021-2022

Bachelor of Science (B. Sc.) (Semester-VI)

COMPUTER SCIENCE Paper-I-Compiler Construction

UNIT TEST on Unit III and IV

Time: 45 min.]

[Maximum Marks: 20

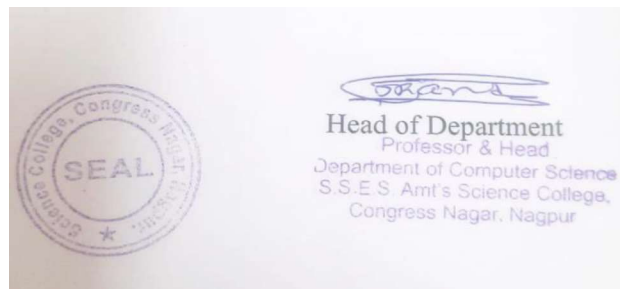
N.B. :- (1) Solve all the questions.

1. What is reduction ? Explain shift reduce parser with example. 5  
Or
2. What is loop optimization ? How is it performed ? Explain with the help of example. 5
3. Explain top down parsing with example. 5  
Or
4. What is machine code ? How machine code is generated in code generation ?
5. Define regular expression. Explain regular expression with example. 5  
Or
6. What is ambiguity ? Consider the following grammar  
 $E \rightarrow E A E \mid (E) \mid -E \mid id$   
 $A \rightarrow + \mid - \mid * \mid /$   
Check that the expression  $id + id * id$  is ambiguous or not. 5
7. Draw transition diagram for constant number, real number and identifier. 5
8. What is parse tree ? Draw parse tree for following expression 5  
 $id + id * id$  using the grammar

$E \rightarrow E A E \mid (E) \mid -E \mid id$   
 $A \rightarrow + \mid - \mid * \mid /$



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**COMPUTER SCIENCE Paper-I-Compiler Construction**

**UNIT TEST MARKS OUT OF 20**

Name of Teacher:Dr. A. A. Halder

Date:16/03/2022

S.N.	Name of Student	Paper I Test Based on Unit III and IV
1	Aditya M. Bansule	A
2	Abhinav D Kawale	6
3	Adina J Anwar	5
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**Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur**

**Academic Session 2021-2022**

**Bachelor of Science (B. Sc.) (Semester-VI)**

**COMPUTER SCIENCE Paper-II-SQL and PL/SQL**

**UNIT TEST on Unit I and II**

Time: 45 min.]

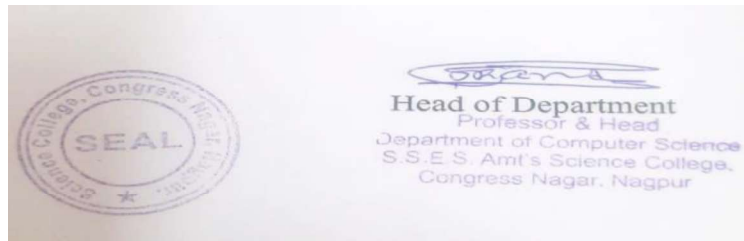
[Maximum Marks: 20

N.B. :- (1) Solve all the questions.

1. Explain different types of database objects. 5
- Or
2. What are Synonyms ? Give the syntax for creating the synonyms and deleting the synonyms. 5
3. Explain the following operations with syntax and example : 5
  - (i) Updating a table
  - (ii) Modification of database structure.
4. What is integrity constraints ? Explain the various types of integrity constraints. 5
  
5. Create a view on the employee table that gives access to limited information about employee of department number : 5  
employee (employee\_no, basic\_salary, department\_no).  
or
6. Explain the CASE statement with example. 5
7. Write a program in PL/SQL to find the factorial of given number N using FOR ... Loop Command. 5
- Or
8. What is view ? What are the objectives of creating the view ? Give the syntax for dropping the view



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**Bachelor of Science (B. Sc.) (Semester-VI)**

**COMPUTER SCIENCE Paper-II-SQL and PL/SQL**

**UNIT TEST MARKS OUT OF 20**

Name of Teacher: Prof. S. R. Pande

Date:17/02/2022

S.N.	Name of Student	Paper II Test Based on Unit I And II
1	Aditya M. Bansule	15
2	Abhinav D Kawale	7
3	Adina J Anwar	16
4	Aditi H Gokhe	12
5	Aditya P Ardak	6
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**COMPUTER SCIENCE Paper-II-SQL and PL/SQL**

**UNIT TEST on Unit III and IV**

Time: 45 min.]

[Maximum Marks: 20

**N.B. :- (1) Solve all the questions.**

1. What is trigger ? Explain the use of before and after triggers giving a suitable example. How can trigger be enabled or disabled ? 5  
or
2. Write a function that returns the updated salary of an employee on the basis of employee number. Increase the salary by 17%.  
Employee (emp\_no, emp\_name, emp\_salary). 5
3. Create a trigger that fires at the UPDATE statement on Employee table and records the employee id, current date and the new salary in Emp-salary table.  
Employee (emp\_no, emp\_name, emp\_salary)  
Emp\_salary (id, edate, new\_salary). 5  
Or
4. Explain creating and dropping function with example.
5. What is exception ? Explain user defined exception. 5  
Or
6. What is cursor ? Explain different types of cursors. 5
7. Write a PL/SQL block that uses the cursor to add special allowances of Rs. 1,000 to the total salary of the employees of department number 100. 5  
or
- 8 Define procedure. Give syntax for creating procedure. Explain procedure having parameters with an example. 5



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