

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

Academic Session 2019-2020

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

Signature of Teacher

Head of Department

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

Academic Session 2019-2020

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

$E \rightarrow E A E \mid (E) \mid -E \mid id$

$A \rightarrow + \mid - \mid * \mid /$

Signature of Teacher

Head of Department

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

Academic Session 2019-2020

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

COMPUTER SCIENCE Paper-I-Compiler Construction

UNIT TEST MARKS

S.N.	CANDIDATE NAME (ECSM)	Test marks out of 20		Signature
		Test I	Test II	
1	SHWETA G. DEOTARE	15	17	
2	DHANASHRI A. DUDHANE	A	8	
3	PRAGATI R. BARMAN	8	10	
4	TANVI K. KAWALE	17	15	
5	PRIYANKA A. BHAKARE	14	7	
6	REEZA I. SAYYED	7	13	
7	KHEMCHANDRA B. KAMBLE	A	16	
8	DIMPLE D. NEHARE	20	18	
9	KHILENDRA P. CHOUHAN	11	17	
10	RUTUJA R. GAUTAM	18	7	
11	MONIKA A. PANDHURKAR	A	11	
12	JAYAKRISHNAN J. PILLAI	7	16	
13	PRACHI C. HATEWAR	13	15	
14	PARTH P. BHOYAR	20	9	
15	POOJA K. PATLE	8	16	
16	AKSHAY S. TUPKARI	A	20	
17	VAISHANAVI S. LANDE	19	9	
18	SHIVANI D.KHADSE	15	13	
19	SHRADDHA S. LANDE	7	9	
20	SAYELI H. ASHTANKAR	14	16	
21	RITIKA MEHTA	20	9	
22	MEET V.BHANGE	A	15	
23	SWAPNIL G. KURADKAR	20	10	
24	KUNAL N. CHINCHULKAR	20	20	
S.N.	CANDIDATE NAME (PCSM)	P1	I1	
1	MOUSMI S. RAHANGDALE	12	14	
2	AYSHU A. PANDEY	15	14	
3	VIRAL B. THUMMAR	A	13	
4	YOGEN M. PAREKH	20	18	

5	SWATI A. PANDIT	7	18	
6	NEHA G. RAGHUWANSHI	11	19	
7	SHIRIN S. SHEIKH	9	7	
8	BHUMIKA V GHUMDE	A	13	
9	AISHWARYA K CHINTALWAR	14	8	
10	BHAWANA W SHINDE	13	16	
11	DARSHNA S MASKE	9	9	
12	VASUDHA V. DESHMUKH	20	19	
13	POOJA C. NANDANWAR	7	12	
14	PRIYA D. BANSOD	A	10	
15	PARAS V.CHAVRE	16	12	
16	PRATEEK M. SARVE	19	8	
17	SHRUTI S. SHRIVASTAVA	10	16	
18	RUTUJA P. ATALKAR	17	A	
19	MILIND R. MOTGHARE	12	20	
20	AACHAL B. DHABARDE	11	7	
21	GUNJAN G SONTAKKE	9	18	
22	RITUJA S. UJAWANE	8	7	
23	MRUNALI N. GAWANDE	7	17	
24	SAMPADA S. AJANKAR	10	14	
25	MRUNALI B. PIMPALKAR	A	19	
26	JAYANT H. SARKAR	17	8	
27	RISHABH V. KHEKDE	15	10	
28	SURYAJA M. MOWADE	10	13	
29	MEGHA S. KERAM	9	15	
30	SHIVANI H. BAGHEL	16	12	
31	NIKHIL S. TOPARE	8	A	
32	SAKSHI A. GADGIL	20	12	
33	PRANAY C. RANDIVE	19	16	
34	SARANG Y.THOTE	16	17	
35	POURNIMA Y. PULLARWAR	8	19	
36	ROSHNI E. PATLE	10	11	
37	NIRJAR P. LOHAKARE	11	A	
38	SMRUTI S.GULGUNDE	8	12	
39	RUTUJA D. SURYAWANSHI	8	16	
40	ASHLESHA D KADASKAR	14	7	
41	SAIYYAD S S ALI	A	19	
42	MAYANK T. SAKHARE	18	16	
43	MAYURI R. SHAHARE	11	11	
44	AMIT G. JENGHATE	11	10	

S.N.	CANDIDATE NAME (SCSM)	P1	I1	
1	NANDINI R. JAIN	12	11	
2	ROHINI B. POTE	20	12	
3	SHIVANI S. AGRAWAL	12	7	
4	NAINA B. YADAV	A	16	
5	MANALI S. JAIN	11	20	
6	SHRUSHTI A. KARHE	17	10	
7	KOMAL S. BALBUDHE	20	A	
8	POONAM D. YADAV	9	10	
9	SWATI S.MISHRA	8	11	
10	BHAGYASHRI D KARMENGE	12	20	
11	ADITI P. BAGADDEO	8	8	
12	RIYA G. ANWANE	A	18	
13	ROSHNI R. KAMBLE	13	9	
14	AFREEN A. BAIG	13	19	
15	MRUNALI V. PATIL	17	20	
16	RINKY S. GUPTA	15	11	
17	SAKSHI H. BORKAR	A	9	
18	SAURABH H. SHENDE	11	10	
19	VAISHANAVI P. UMBARKAR	19	10	
20	KUNAL A. SHEREKAR	17	14	
21	JANVI N. RANDIVE	10	8	
22	UTKARSHA V. HARDE	A	20	
23	ANUJ A. DEO	13	19	
24	ANSHUL D. JAIN	17	14	
25	YATILESH D. MOHALE	11	A	
26	POOJA G. HANDE	11	9	
27	MRUDUL M. KODARLIKAR	14	18	
28	SHUBHAM S. JAWKAR	A	8	
29	SHIWANI S. THAKRE	17	17	
30	PRIYA D. WALDE	12	12	
31	POOJA S. MISAL	9	20	
32	VRUSHALI V. KHANGAR	16	9	

Signature of Teacher

Head of Department

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

Academic Session 2019-2020

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

Signature of Teacher

Head of Department

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

Academic Session 2019-2020

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

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

Signature of Teacher

Head of Department

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

Academic Session 2019-2020

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

COMPUTER SCIENCE Paper-II-SQL and PL/SQL

UNIT TEST MARKS

S.N.	CANDIDATE NAME (ECSM)	Test marks out of 20 Test I	Test marks out of 20 Test II	Signature
1	SHWETA G. DEOTARE	11	14	
2	DHANASHRI A. DUDHANE	16	A	
3	PRAGATI R. BARMAN	A	10	
4	TANVI K. KAWALE	16	20	
5	PRIYANKA A. BHAKARE	8	12	
6	REEZA I. SAYYED	13	A	
7	KHEMCHANDRA B. KAMBLE	15	20	
8	DIMPLE D. NEHARE	10	13	
9	KHILENDRA P. CHOUHAN	9	18	
10	RUTUJA R. GAUTAM	8	A	
11	MONIKA A. PANDHURKAR	17	19	
12	JAYAKRISHNAN J. PILLAI	19	19	
13	PRACHI C. HATEWAR	12	10	
14	PARTH P. BHOYAR	12	14	
15	POOJA K. PATLE	A	17	
16	AKSHAY S. TUPKARI	16	13	
17	VAISHANAVI S. LANDE	13	13	
18	SHIVANI D.KHADSE	7	12	
19	SHRADDHA S. LANDE	17	19	
20	SAYELI H. ASHTANKAR	14	20	
21	RITIKA MEHTA	10	20	
22	MEET V.BHANGE	8	A	
23	SWAPNIL G. KURADKAR	18	19	
24	KUNAL N. CHINCHULKAR	17	12	
S.N.	CANDIDATE NAME (PCSM)	P1T	P2	
1	MOUSMI S. RAHANGDALE	10	12	
2	AYSHU A. PANDEY	14	A	
3	VIRAL B. THUMMAR	15	16	
4	YOGEN M. PAREKH	10	12	
5	SWATI A. PANDIT	11	18	

6	NEHA G. RAGHUWANSHI	8	7	
7	SHIRIN S. SHEIKH	A	19	
8	BHUMIKA V GHUMDE	10	10	
9	AISHWARYA K CHINTALWAR	14	14	
10	BHAWANA W SHINDE	20	13	
11	DARSHNA S MASKE	11	12	
12	VASUDHA V. DESHMUKH	8	17	
13	POOJA C. NANDANWAR	16	12	
14	PRIYA D. BANSOD	14	11	
15	PARAS V.CHAVRE	8	A	
16	PRATEEK M. SARVE	14	14	
17	SHRUTI S. SHRIVASTAVA	14	13	
18	RUTUJA P. ATALKAR	19	12	
19	MILIND R. MOTGHARE	12	20	
20	AACHAL B. DHABARDE	7	A	
21	GUNJAN G SONTAKKE	19	8	
22	RITUJA S. UJAWANE	8	8	
23	MRUNALI N. GAWANDE	19	20	
24	SAMPADA S. AJANKAR	13	A	
25	MRUNALI B. PIMPALKAR	18	20	
26	JAYANT H. SARKAR	14	17	
27	RISHABH V. KHEKDE	13	18	
28	SURYAJA M. MOWADE	15	16	
29	MEGHA S. KERAM	16	18	
30	SHIVANI H. BAGHEL	9	8	
31	NIKHIL S. TOPARE	11	17	
32	SAKSHI A. GADGIL	12	11	
33	PRANAY C. RANDIVE	10	7	
34	SARANG Y.THOTE	20	13	
35	POURNIMA Y. PULLARWAR	11	15	
36	ROSHNI E. PATLE	14	A	
37	NIRJAR P. LOHAKARE	7	13	
38	SMRUTI S.GULGUNDE	16	17	
39	RUTUJA D. SURYAWANSHI	20	19	
40	ASHLESHA D KADASKAR	14	A	
41	SAIYYAD S S ALI	17	7	
42	MAYANK T. SAKHARE	A	15	
43	MAYURI R. SHAHARE	13	9	
44	AMIT G. JENGHATE	19	8	
S.N.	CANDIDATE NAME (SCSM)	P1T	P2	

1	NANDINI R. JAIN	14	12	
2	ROHINI B. POTE	7	18	
3	SHIVANI S. AGRAWAL	18	18	
4	NAINA B. YADAV	15	16	
5	MANALI S. JAIN	16	12	
6	SHRUSHTI A. KARHE	12	11	
7	KOMAL S. BALBUDHE	12	A	
8	POONAM D. YADAV	7	13	
9	SWATI S.MISHRA	19	17	
10	BHAGYASHRI D KARMENGE	14	A	
11	ADITI P. BAGADDEO	16	14	
12	RIYA G. ANWANE	7	12	
13	ROSHNI R. KAMBLE	17	7	
14	AFREEN A. BAIG	13	18	
15	MRUNALI V. PATIL	7	9	
16	RINKY S. GUPTA	11	15	
17	SAKSHI H. BORKAR	A	19	
18	SAURABH H. SHENDE	17	12	
19	VAISHANAVI P. UMBARKAR	16	19	
20	KUNAL A. SHEREKAR	20	16	
21	JANVI N. RANDIVE	8	8	
22	UTKARSHA V. HARDE	11	A	
23	ANUJ A. DEO	8	17	
24	ANSHUL D. JAIN	14	15	
25	YATILESH D. MOHALE	10	15	
26	POOJA G. HANDE	16	8	
27	MRUDUL M. KODARLIKAR	A	13	
28	SHUBHAM S. JAWKAR	18	7	
29	SHIWANI S. THAKRE	16	A	
30	PRIYA D. WALDE	8	8	
31	POOJA S. MISAL	16	10	
32	VRUSHALI V. KHANGAR	15	14	

Signature of Teacher

Head of Department