

## 5. Campus \*

Mark only one oval.

- ☐ RR Campus
- ☐ EC Campus

Answer All questions

## 6. Which tool is used for grouping of characters in to tokens in the compiler? \*

Mark only one oval.

- ☐ Parser
- ☐ Code optimizer
- ☐ Code generator
- ☐ Scanner

## 7. The number of tokens in the following C statement is \*

```
Switch(inputvalue)|  
{  
Case 1: b=c*d; break;  
Default:b=b++; break;  
}
```

Mark only one oval.

- ☐ 24
- ☐ 27
- ☐ 26
- ☐ 29

## 8. Match the Following \*

(P)	Lexical analysis	(i)	Leftmost derivation
(Q)	Top down parsing	(ii)	Type checking
(R)	Semantic analysis	(iii)	Regular expressions

Mark only one oval.

- ☐ P-- i, Q--iii, R--ii
- ☐ P-- iii, Q--i, R--ii
- ☐ P-- ii, Q--iii, R--i
- ☐ None of the Above

## 9. Which phase of a compiler is Optional \*

Mark only one oval.

- ☐ Lexical Analysis
- ☐ Syntax Analysis
- ☐ Machine Independent code Optimizer
- ☐ Semantic Analysis.

## 10. Which of the following is a stage of compiler design? \*

Mark only one oval.

- ☐ Semantic analysis
- ☐ Code generator
- ☐ Code Optimizer
- ☐ All of the mentioned

11. Consider the following lex script . Simulate the action of Lexical Analyzer generated by the tool, on the input string " compilerdesiggn" \*

```
%%  
"compiler"      printf("COMPILER");  
"compilerdesign" printf("COMPILERDESIGN");  
.|\\n          printf("X");  
%%
```

Mark only one oval.

- ☐ COMPILER
- ☐ COMPILERDESIGXX
- ☐ COMPILERXXXXXXXX
- ☐ COMPILERXXXXXXXXXX

12. Which symbol would lead the lexer to perform lookahead operation \*

Mark only one oval.

- ☐ +
- ☐ {
- ☐ (
- ☐ \$

13. The action part of lex program is included in \_\_\_\_\_ section. \*

Mark only one oval.

- ☐ Rule
- ☐ Declaration
- ☐ Procedure
- ☐ Body

14. Cross-compiler is a compiler \_\_\_\_\_ \*

*Mark only one oval.*

- ☐ Which is written in a different language from the source language?
- ☐ That generates object code for the machine it's running on.
- ☐ Which is written in the same language as the source language?
- ☐ That runs on one machine but produces object code for another machine

15. \_\_\_\_\_ constructs the desired target program from the intermediate representation of the source program. \*

*Mark only one oval.*

- ☐ Analysis part
- ☐ Lexical part
- ☐ Synthesis part
- ☐ None of these

16. In some programming languages, an identifier is permitted to be a letter followed by any number of letters or digits. If L and D denote the sets of letters and digits respectively, which of the following expressions defines an identifier? \*

*Mark only one oval.*

- ☐  $(L \cup D)^+$
- ☐  $L(L \cup D)^*$
- ☐  $(L \cdot D)^*$
- ☐  $L(L \cdot D)^*$

17. Is GCC a cross Compiler. \*

*Mark only one oval.*

☐ Yes

☐ No

18. A lexical analyzer uses the following patterns to recognize three tokens 1, 2, and 3 over the alphabet {a,b,c}. Find the output for the input string "bbaacabc" \*

```
%%  
a?(b|c)*a    printf("1");  
b?(a|c)*b    printf("2");  
c?(b|a)*c    printf("3");  
.|\\n        printf("X");  
%%
```

*Mark only one oval.*

☐ 123

☐ 113

☐ 33

☐ 33X

19. The Following lex script will print number of \_\_\_\_\_ \*

```
%%  
([a-zA-Z0-9])* {Count++;}  
"\n" {printf("%d\n", Count); Count = 0;}  
%%  
.
```

Mark only one oval.

- ☐ Words
- ☐ Characters
- ☐ Lexems
- ☐ None of the above

20. Which data structure in a compiler is used for managing information about variables and their attributes? \*

Mark only one oval.

- ☐ Abstract syntax tree
- ☐ Symbol table
- ☐ Parse table
- ☐ Semantic stack

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