Q1. Lexical analyser generates the next token
(A) When it is asked for
(B) By maintaining a repository of tokens
(C) By scanning the whole input
(D) None of the other options
Ans: A
Q2. Lexical analysis and parsing are put as two different phases so as to
(A) Make design simple
(B) Improve efficiency
(C) Enhance portability
(D) All of the other options
Ans: D
Q3. A lexeme is
(A) Any sequence of characters
(B) Sequence of characters defining a token
(C) Same as a token
(D) Not related to any token
Ans: B
Q4. Character sequence "2r" is not a lexical error if the language allows
(A) Symbol names to start with integers
(B) Juxtaposition is taken as a valid operator
(C) Length of symbol names is not fixed
(D) Symbol names to start with integers or juxtaposition is taken as a valid operator
Ans: D
Q5. A certain compiler corrects errors like "fi" to "if" automatically. This is an example of recovery in
(A) Panic mode
(B) Delete character
(C) Replace character
(D) Transpose characters
Ans: D
Q6. For the Fortran language statement "DO 5 I = 1.25" returns token IDENTIFIER for DO 5 I after
looking upto
(A) I
(B) =
(C).
(C). (D) 5
Ans: C
7415.
Q7. A regular expression represents
(A) Constituent strings of a language
(B) Part of a language
(C) Cannot represent any language
(D) None of the other options
Ans: A
Q8. The regular expression $(0 1)*(0 1)$ represents a language with

(A) Nonempty binary strings (B) Empty and nonempty binary strings (C) Odd nonempty strings (D) Even nonempty strings Ans: A Q9. The regular expression (0|1)\*00 will accept all strings (A) Divisible by 2 (B) Divisible by 4 (C) Divisible by 2 with minimum length 2 (D) Divisible by 4 with minimum length 2 Ans: D Q10. A regular expression for accepting strings with exactly one 1 more than 0's is (A) 0\*1(B) (0|1)\*1(0|1)\* (C) (0|1)\*1(0|1)\*|1(0|1)\*(D) Not possible Ans: D Q11. Finite automata is an implementation of (A) Regular expression (B) Any grammar (C) Part of a regular expression (D) None of the other options Ans: A Q12. A DFA cannot have (A) Epsilon transitions (B) An isolated state (C) More than one transition from a state on same inout (D) All of the other options Ans: D Q13. Number of possible epsilon transitions from a state in an NFA is (A) One (B) At most one (C) Many (D) Zero Ans: C Q14. Between NFA and DFA which one is easier to implement (A) NFA (B) DFA (C) Equal effort needed (D) Cannot be said definitely Ans: B Q15. Between NFA and DFA which one is more powerful (A) NFA (B) DFA

- (C) Equally powerful
- (D) Cannot be said definitely

Ans: C