

Code No: 56031

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

COMPILER DESIGN

Objective Exam

Name: \_\_\_\_\_ Hall Ticket No. 

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I Choose the correct alternative:**

1. The check whether a variable is defined exactly once or not is \_\_\_\_\_ check [     ]  
a) uniqueness check    b) Flow of control check    c) name related check    d) none of the above
2. A symbol is said to be \_\_\_\_\_ if it has different meaning depending on its context or use. [     ]  
a) overridden            b) overloaded            c) both of the above    d) none of the above
3. One of the following is an object code form [     ]  
a) Absolute machine language                      b) Relocatable machine code  
c) Assembly language                                d) all of the above
4. Determining common sub expression can be done using \_\_\_\_\_ [     ]  
a) DAG            b) Parse tree            c) Compiler            d) Linker
5. A transformation of a program is said to be \_\_\_\_\_ if it can be performed by looking only t the statements in a basic block [     ]  
a) local            b) global            c) both of the above    d) none of the above
6. The statement of the form  $f:=g$  is called a \_\_\_\_\_ [     ]  
a) common sub expression    b) copy statement    c) deadcode    d) induction variabl
7. Example of a structure preserving transformation is \_\_\_\_\_ [     ]  
a) common sub expression    b) deadcode elimination    c) reduction in strength d) all of the above
8. Reaching definition information can be easily stored using \_\_\_\_\_ [     ]  
a) use definition chains            b) definition use chains  
c) both of the above            d) none of the above
9. \_\_\_\_\_ points to the activation record of the caller [     ]  
a) optional control link    b) optional access link    c) both of the above    d) none of the above
10. \_\_\_\_\_ allocation is based on the idea of a control stack [     ]  
a) heap            b) dynamic            c) stack            d) static

**Cont.....2**

**II Fill in the blanks**

11. Type checking is also called as \_\_\_\_\_ checking
12. A type expression is either a basic type or is formed by applying an operator called \_\_\_\_\_
13. \_\_\_\_\_ is a pointer to a list containing information about the current contents of each register
14. General Form of a three-address statement is \_\_\_\_\_
15. A \_\_\_\_\_ is a sequence of consecutive statements in which the flow of control enters at the beginning and leaves at the end
16. Short sequence of target code instructions chosen for examination is called a \_\_\_\_\_
17. A \_\_\_\_\_ is a directed graph which gives the flow of control of information to the set of basic blocks making up a program.
18. A loop that contain no other loops is called a \_\_\_\_\_
19. A \_\_\_\_\_ is a declaration that associates an identifier with a statement.
20. Information needed by a single execution of a procedure is managed using a continuous block of storage called an \_\_\_\_\_

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.****I Choose the correct alternative:**

1. Determining common sub expression can be done using \_\_\_\_\_ [     ]  
a) DAG            b) Parse tree            c) Compiler            d) Linker
2. A transformation of a program is said to be \_\_\_\_\_ if it can be performed by looking only at the statements in a basic block [     ]  
a) local            b) global            c) both of the above            d) none of the above
3. The statement of the form  $f:=g$  is called a \_\_\_\_\_ [     ]  
a) common sub expression            b) copy statement            c) deadcode            d) induction variable
4. Example of a structure preserving transformation is \_\_\_\_\_ [     ]  
a) common sub expression            b) deadcode elimination            c) reduction in strength            d) all of the above
5. Reaching definition information can be easily stored using \_\_\_\_\_ [     ]  
a) use definition chains            b) definition use chains  
c) both of the above            d) none of the above
6. \_\_\_\_\_ points to the activation record of the caller [     ]  
a) optional control link            b) optional access link            c) both of the above            d) none of the above
7. \_\_\_\_\_ allocation is based on the idea of a control stack [     ]  
a) heap            b) dynamic            c) stack            d) static
8. The check whether a variable is defined exactly once or not is \_\_\_\_\_ check [     ]  
a) uniqueness check            b) Flow of control check            c) name related check            d) none of the above
9. A symbol is said to be \_\_\_\_\_ if it has different meaning depending on its context or use. [     ]  
a) overridden            b) overloaded            c) both of the above            d) none of the above
10. One of the following is an object code form [     ]  
a) Absolute machine language            b) Relocatable machine code  
c) Assembly language            d) all of the above

**II Fill in the blanks**

11. General Form of a three-address statement is \_\_\_\_\_
12. A \_\_\_\_\_ is a sequence of consecutive statements in which the flow of control enters at the beginning and leaves at the end
13. Short sequence of target code instructions chosen for examination is called a \_\_\_\_\_
14. A \_\_\_\_\_ is a directed graph which gives the flow of control of information to the set of basic blocks making up a program.
15. A loop that contain no other loops is called a \_\_\_\_\_
16. A \_\_\_\_\_ is a declaration that associates an identifier with a statement.
17. Information needed by a single execution of a procedure is managed using a continuous block of storage called an \_\_\_\_\_
18. Type checking is also called as \_\_\_\_\_ checking
19. A type expression is either a basic type or is formed by applying an operator called \_\_\_\_\_
20. \_\_\_\_\_ is a pointer to a list containing information about the current contents of each register

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Set No. 3

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I Choose the correct alternative:**

1. The statement of the form  $f:=g$  is called a \_\_\_\_\_ [     ]  
a) common sub expression    b) copy statement    c) deadcode    d) induction variable
2. Example of a structure preserving transformation is \_\_\_\_\_ [     ]  
a) common sub expression    b) deadcode elimination    c) reduction in strength    d) all of the above
3. Reaching definition information can be easily stored using \_\_\_\_\_ [     ]  
a) use definition chains    b) definition use chains  
c) both of the above    d) none of the above
4. \_\_\_\_\_ points to the activation record of the caller [     ]  
a) optional control link    b) optional access link    c) both of the above    d) none of the above
5. \_\_\_\_\_ allocation is based on the idea of a control stack [     ]  
a) heap    b) dynamic    c) stack    d) static
6. The check whether a variable is defined exactly once or not is \_\_\_\_\_ check [     ]  
a) uniqueness check    b) Flow of control check    c) name related check    d) none of the above
7. A symbol is said to be \_\_\_\_\_ if it has different meaning depending on its context or use. [     ]  
a) overridden    b) overloaded    c) both of the above    d) none of the above
8. One of the following is an object code form [     ]  
a) Absolute machine language    b) Relocatable machine code  
c) Assembly language    d) all of the above
9. Determining common sub expression can be done using \_\_\_\_\_ [     ]  
a) DAG    b) Parse tree    c) Compiler    d) Linker
10. A transformation of a program is said to be \_\_\_\_\_ if it can be performed by looking only at the statements in a basic block [     ]  
a) local    b) global    c) both of the above    d) none of the above

**Cont.....2**

**II Fill in the blanks**

11. Short sequence of target code instructions chosen for examination is called a \_\_\_\_\_
12. A \_\_\_\_\_ is a directed graph which gives the flow of control of information to the set of basic blocks making up a program.
13. A loop that contain no other loops is called a \_\_\_\_\_
14. A \_\_\_\_\_ is a declaration that associates an identifier with a statement.
15. Information needed by a single execution of a procedure is managed using a continous block of storage called an \_\_\_\_\_
16. Type checking is also called as \_\_\_\_\_ checking
17. A type expression is either a basic type or is formed by applying an operator called \_\_\_\_\_
18. \_\_\_\_\_ is a pointer to a list containing information about the current contents of each register
19. General Form of a three-address statement is \_\_\_\_\_
20. A \_\_\_\_\_ is a sequence of consecutive statements in which the flow of control enters at the beginning and leaves at the end

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**I Choose the correct alternative:**

1. Reaching definition information can be easily stored using \_\_\_\_\_ [     ]  
 a) use definition chains      b) definition use chains  
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2. \_\_\_\_\_ points to the activation record of the caller [     ]  
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