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BSc Computer Science IIIrd semester BCS 302 SYSTEM SOFTWARE MULTIPLE CHOICE QUESTIONS

1) Compiler is a program that
a)places programs into memory and prepares them for execution
b)automates the translation of assembly language into machine language
c)accepts a program written in a high level language and produces an object program
d)appears to execute a source program as if it were machine language.

Ans)c

Loader is a program that
a)places programs into memory and prepares them for execution.
b)automates the translation of assembly language into machine language.
c)accepts a program written in a high level language and produces an object program.
d)appers to execute a source program as if it were machine language

ans)a

- 3.) The action of parsing the source program into the proper syntactic classes is called a)syntax analysis b)lexical analysis c)interpretation analysis d)general syntax analysis ans)b
- 4) In analyzing the compilation of PL/I program ,the term "lexical analysis" is associated with a)recognition of basic syntactic constructs through reductions b)recognition of basic elements and creation of uniform symbols c)creation of more optional matrix d)use of macro processor to produce more optimal assembly code ans)b
- 5) In analyzing the compilation of PL/I program,the description creation of more optimal matrix is associated with a)assembly and output b)code generation c)syntax analysis d)machine independent optimization ans)d
- 6) Task of the lexical analysis phase is

a)to parse the source program into basic elements or tockens of the language b)to build a literal literal table and an identifier table c)to build a uniform symbol table d) all of these ans)d

- 7) which is a permanent database in the general model of compiler a)Literal table
- b)Identifier table
- c)Terminal table
- d)source code

ans)c

- 8) which table is a permanent data bases that has an entry for each terminal symbol
- a)Terminal table
- b)Literal table
- c)Identifier table
- d)Reductions

ans)a

- 9) The output of lexical analyser is
- a)a set of regular expressions
- b)syntax tree
- c)set of tokens
- d)strings of characters

ans)c

- which of the following system software resides in main memory 10)
- a) texteditor
- b) assembler
- c)linker
- d)all of these

ans)d

- .machine independent phase of the compiler is 11)
- a)syntax analysis
- b)lexical analysis
- c)intermediate code generation
- d)all of these

ans)d

- which of the following statement is true 12)
- a)SLR parser is more powerful than LALR
- b)LALR parser is more powerful than canonical LR parser

c)canonical LR parser is more powerful than LALR parser d)parser SLR,canonical CR and LALR have the same power ans)d

- 13) .which of the following is used for grouping of characteristics into tockens
 a)parser
 b)code optimization
 c)code generator
 d)lexical analyser
 ans)d
- 14) A bottom up parser generates a)Right most derivations b)Right most derivations in reverse c)Leftmost derivations d)Leftmost derivations in reverse ans)b
- 15) .A top down parser generatesa)Right most derivationsb)Right most derivations in reversec)Leftmost derivationsd)Leftmost derivations in reverseans)c
- 16) .which of the following grammer is LR(1)
 a)A->aAa
 A->bAb
 A->a
 A->b
 b)A->aAa
 A->aAb
 A->aAb
 A->c
 c)A->A+A
 A->a
 d)both a and b

ans)b

- 17) which of the following parser is the most powerful a)Operator precedence b)Canonical LR c)LALR d)SLR ans)b
- 18) Minimum hamming distance method is used for connection of

a)syntactic errors b)semantic errors c)algorithm errors d)transcription errors ans)a

19) .Pee hole optimization is a form of a)loop optimization b)local optimization c)constant folding

d)none of these

ans)a

- 20) The optimization which avoids test at every iteration is
- a)loop unrolling
- b)loop jamming
- c)constant folding
- d)none of these

ans)a

- 21) The value of k,in LR(k)cannot be
- a)0
- b)1
- c)2

d)none of these

ans)d

- 22) The cost of developing a compiler is proportional to a)complexity of the source language b)complexity of the architecture of the target machine c)flexibility of the available instruction set d)all of these ans)d
- 23) which of the following is the most general phase structured grammar a)Regular b)Context free

c)Context sensitive

d)none of these

ans)c

- Type checking is normally done during 24)
- a)lexical analysis
- b)syntax analysis
- c)syntax directed translation
- d)code optimization

- 25) which of the following grammars are not phase structured a)Regular b)Context free c)Context sensitive d)None of these ans)d
- 26) csg can be recognized by a)push down automata b)2-way linear bounded automata c)finite state automata d)None of these ans)b
- 27) which of the following is not a source error a)faulty design specification b)faulty algorithm c)Compilers themselves d)none of these ans)d
- 28) A parser with valid prefix property is advantageous because it a)detects error as soon as possible b)detects errors as and when they occur c)limits the amount of erroneous output passed to the next phase d)all of these ans)c
- 29) ud-chaining is useful for a)determining whether a particular definition is used anywhere or not b)constant folding c)checking whether a variable is used,without prior assignment d)all of these ans)d
- 30) Back-patching is useful for handling a)conditional jumps b)unconditional jumps c)backward reference d)forward references ans)d
- 31) Ir stands for a)left to right

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b)left to right reduction
c)right to left
d)left to right and right most derivations in reverse
ans)d
32)
       An ideal compiler should
a)be small in size
b)produce object code that is smaller in size and execute faster
c)takes less time for compiling
d)all of these
ans)d
33)
       which of the following is used for grouping of characters into tockens
a)parser
b)code optimizer
c)code generator
d)scanner
ans)d
       which of the following class of statements usually produces no executable code when compiled
34)
a)Declaration statements
b)Assignment statements
c)Input and output statements
d)structural statements
ans)d
35)
       Access time of the symbol table will be logarithmic, if it is implemented by
a)linear list
b)search tree
c)hash table
d)self-organizing list
ans)b
       A shift reduce parser carries out the actions specified within braces immediately after reducing, with
36)
the corresponding rule of the grammar
s->xxW{print "1"}
s->y{print "2"}
w \rightarrow sz \{ print "3" \}
what is the translation of "xxxxyzz"
a)11231
b)11233
c)23131
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d)233321 ans)c

37)

The output of a lexical analyzer is

a)machine code b)intermediate code c)a stream of tockens d)a parse tree ans)c

38) Synthesized attribute can be easily simulated by a

a)LL grammar

b)ambiguous grammar

c)LR grammar

d)none of these

ans)c

39) which of the following cannot be used an an intermediate code form

a)post fix notation

b)Three address codes

c)Syntax trees

d)Quadraples

ans)d

40) A Language L is defined by L= $\{xn \ yn \ |n>1\}$ which of the following definitions generates the same

language as L

 $a)E->xEy \mid xy$

b)(xy)|(xxyy)

c)x-y-

d)All of these

ans)a

41) pass1

a)assign address to all statements in the program

b)save the values assigned to all labels for use in pass2

c)perform some processing of assembler directives

d)all of these

ans)d

42) pass2

a)assemble instruction and generate data

b)perform processing of assembler directions not done during pass1

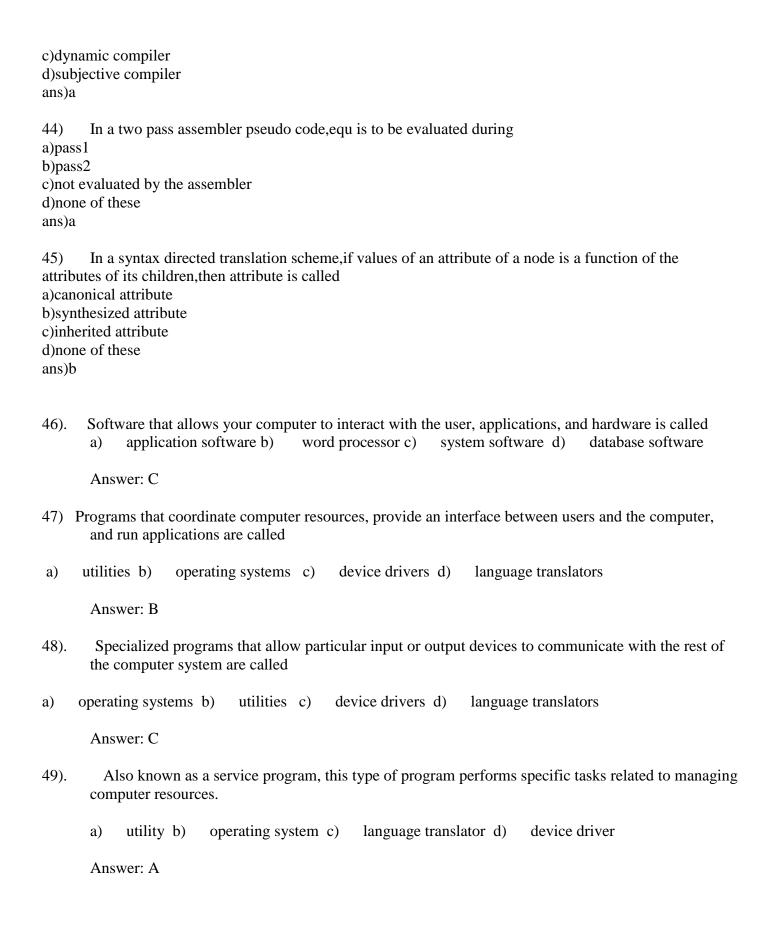
c)write the object program and the assembly listing

d)all of these

ans)d

43) A compiler which allows only the modified section of the source code to be re-compiled is called a)incremental compiler

b)re-configurable compiler



50)	In order for a computer to understand a program, it must be converted into machine language by $a(n)$					
	a) operating system b) utility c) device driver d) language translator					
	Answer: D					
51).	Which of the following is not a function of the operating system?					
	a) manage resources b) Internet access c) provide a user interface d) load and run applications					
	Answer: B					
52).	The items that a computer can use in its functioning are collectively called its					
	a) resources b) stuff c) capital d) properties					
	Answer: A					
53).	Programs that coordinate all of the computer's resources including memory, processing, storage, and devices such as printers are collectively referred to as					
	a) language translators b) resources c) applications d) interfaces					
	Answer: B					
54).	refers to a computer's ability to run more than one application at the same time.					
	a) serial computing b) operating system c) parallel computing d) multitasking					
	Answer: D					
55).	"GUI" stands for					

	c) Graphical User Interface d) General Utility Interface			
	Answer: C			
56.	Starting or restarting a computer is called			
	a) booting the system b) firing the system c) tasking the system d) restoring the system			
	Answer: A			
57.	This type of boot occurs when the computer is already on, and you restart it without turning off the power.			
a)	generic boot b) live boot c) warm boot d) cold boot			
	Answer: C			
58	In a computer system, data and programs are stored as			
	a) files b) records c) archives d) annals			
	Answer: A			
	data and programs.			
59.	In a computer system, related files are generally stored in the same			
	a) track b) table c) folder d) wallet			
	Answer: C			
60.	An embedded operating system would most likely be found in a			
	a) desktop computer b) server c) Web site d) PDA			
	Answer: D			

Graphic Uninstall/Install

a)

Gnutella Universal Interface b)

61.	Which of the following is an operating system that would most likely be found on a handheld computer?					
	a) Windows XP b) Windows NT c) Windows 2000 d) Windows CE					
	Answer: D					
62.	To connect several computers together, one generally needs to be running a(n) operating system.					
	a) network b) Internet c) stand-alone d) embedded					
	Answer: A					
63	Popular network operating systems include all of the following except					
	a) NetWare b) Windows NT Server c) Windows XP Server d) Microsoft DOS					
	Answer: D					
64.	Windows and Macintosh are generally considered to be operating systems.					
	a) network b) stand-alone c) embedded d) DOS					
	Answer: B					
65	Operating systems that are owned and licensed by a corporation are called					
	a) proprietary operating systems b) server operating systems					
	c) client operating systems d) stand-alone operating systems					
	Answer: A					
66.	The objective of these operating systems is to encourage individuals to use, improve, and modify the programs.					
	a) proprietary b) freeware c) shareware d) non-proprietary					

Answer:	\mathbf{D}
A MID W CI.	$\boldsymbol{\mathcal{L}}$

67.		This operating system is an example of an open source program.
	a)	Linux b) Windows XP c) Macintosh d) UNIX
	Ans	swer: A
68.		The most popular microcomputer operating system in use today is
	a)	Microsoft Windows b) Linux c) UNIX d) Macintosh
	Ans	swer: A
69.		The latest version of Microsoft's popular operating system is called
	a)	Windows ME b) Windows 2000 Professional
	c)	Windows XP d) Windows NT Workstation
	Ans	swer: C
70.		The first operating system developed that used GUI's was by
	a)	Microsoft b) Linux c) Macintosh d) Bell labs
	Ans	swer: C
71.		The latest version of the Macintosh operating system is
	a)	Mac OS IX b) Mac OS IXX c) Mac OS V d) Mac OS X
	Ans	swer: D
72.		Apple computers use which operating system?
	a)	Windows b) Be O/S c) Linux d) Macintosh

73.	The Macintosh tool for organizing files is called				
	a)	Dock b)	Sherlock c)	Aqua d)	Sandbox
	Ans	wer: A			
	files	is called a c	lock.		
74.		If you were	trying to locate	e a lost file o	n your Macintosh, which application would you use?
	a)	Dock b)	Sherlock c)	Aqua d)	DiskCheck
	Ans	wer: B			
75.		This operati ronment.	ng system was	originally de	esigned to run on minicomputers used in a network
	a)	Linux b)	UNIX c)	Windows d)	Mac OS
	Ans	wer: B			
76.		Which of th	e following is t	the latest "fla	avor" of the UNIX operating system?
	a)	Penguix b)	Manimal c) Torvaliz	(d) Linux
	Ans	wer: D			
77.		Which of th	e following is a	an example o	of non-proprietary software?
	a)	Windows	b) Macinto	osh c) Li	nux d) MS Office 2000
	Ans	wer: C			

This open source software is free and available from many sources.

Answer: D

78.

	a) Windows b) Macintosh c) Linux d) NetWare
	Answer: C
79.	Which of the following is NOT one of the alternatives to the Windows operating system?
	a) UNIX b) Macintosh c) NetWare d) Linux
	Answer: C
80.	What is the name of a utility that protects your computer against downloading malicious code?
	a) file compression program b) antivirus program
	c) backup program d) troubleshooting program
	Answer: B
81.	To safely remove a program from your computer, you might want to use what type of utility?
	a) backup program b) file compression program
	c) troubleshooting program d) uninstall program
	Answer: D
82.	Which of the following is a type of utility used to reduce the size of files to increase the amount of available disk space?
	a) file compression program b) troubleshooting program
	c) antivirus program d) uninstall program
	Answer: A
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83.	A utility that makes copies of files in case the originals are lost or destroyed is called a(n)
	a) troubleshooting program b) uninstall program
	c) backup program d) antivirus program
	Answer: C
84.	Which of the following Windows utilities will erase unneeded files?
	a) Backup or Restore Wizard b) Disk Cleanup
	c) Disk Defragmenter d) All of the above
	Answer: B
85.	A concentric ring on a disk is referred to as a
	a) track b) sector c) table d) segment
	Answer: A
86.	When files are broken up into small parts on a disk they are said to be
	a) fragmented b) contiguous c) sectored d) disbursed
	Answer: A
87	A collection of utility programs bundled and sold together is called a(n)
	a) application suite b) operating system c) utility suite d) system file
	Answer: C
	several programs into one package.
88.	In order for a peripheral to operate correctly, its must be installed.
	a) device driver b) user interface c) Internet connection d) none of the above

Answer: A

- 89. Which one of the following would not be considered as a well-known utility suite?
 - a) Windows XP b) eSafe Desktop c) McAfee Office d) Norton SystemWorks

 Answer: A
- 90. You can use what utility to update all of your device drivers at the same time?
 - a) Driver Update b) Device Manager c) Driver Verification Service (DVS)
 - d) Windows Update

Answer: D