OBJECTIVES (MCQ'S) OF CHAPTER-8 IN ALL PUNJAB BOARDS 2011-2021

1. An IDE consists of:		
(A) text editor (B) compiler	(C) debugger	(D) all of these
The extension of C source program		
(A) .b (B) .c	(C) .obi	(D).exe
Which of the following represents t	he preprocessor direct	tive?
(A) void main (void) (B) {}	(C) # include <stdio.h< td=""><td>n> (D)include<std.h></std.h></td></stdio.h<>	n> (D)include <std.h></std.h>
4. C statements end with:		
(A) period (B) comma	(C) semi-colon	(D)question mark
exe file is produced by the		(5 Times)
(A) linker (B)loader	(C) compiler	(D) interpreter
Void occupy how many bytes in me	mory	
(A) zero (B) one	(C) two	(D) four
A programs' syntax error is detecte		
(A) Linker (B) compiler	(C) loader	(D) debugger
8. The lowest level of programming lan	guage is:	
(A) Assembly language (B) Java	(C)Pascal	(D) C++
9. key is used to save a fi	ile in Turbo C++.	
(A) D1 (B) F2	(C) F5	(D) F7
10. Who developed C:		
(A) Von-Neumann (B) Al-Khuwarizmi	(C) Charles Babbage	(D)Dennis Ritchie
11. Turbo C++ can compile:		
(A) C programs only	(B) C and C++ progra	ims
(A) C programs only (C) Turbo C programs only	(D)Turbo C++ program	ms
12. Processor directives are command		
(A) Microprocessor (B) Language Process	or (C) C preprocessor	r (D)Loader
13. Header files in C contain:		
(A) Compiler commands	(B)Library functions	
(C) Header information of C programs	(D) Operators for files	S
14. Which of the following syntax is use	ed to include header fi	ile?
(A) #include <name file="" header="" of=""></name>	(B) # include name of	f he header file
(C) Both a or b	(D) None of these	
15. Stdio.h is part of:	N 2	
A) comment section (B)C standard library	(C) Compiler	(D) main function
16. The name of header file is written b	etween:	
(A)[] (B)()	(C)<>	(D) <<>>
	, ,	
Scoup is the process	(B) Identifying and re	moving error
A) Creating bugs in program	(D) Removing Errors	
C) Identifying Errors 18. Division by zero is an example of:	(2)	(2 Times)
DIVISION DV LCIO IS SIL	(C) Logic error	(D) None
A) compile error (B) Run-time error	OT detected by comp	iler?
9. Which of the following errors are N	(C) both a and b	(D) None
A) Syntax error (B)Logical error	(c) both a did b	(b) None
	2017	
C-LAN	IGUAGE	
0. C-Language was developed in:		(8 times)
a) 1962 (b) 1969	(c) 1970	(d) 1972

C-LANGUAGE

(8 times) The statement written by programmer is called: (a) Source code (b) exe code (d) Object code (c) Syntax 22. Graphical representation of a program is called: (b) algorithm (c) Identifier (d) relationship 23. The process of converting source code into object code is known as: (a) Compiling (b) Executing (c) Linking (d) Saving A set of rules that must be followed by programmer to develop program is 24. called:-(a) Syntax (b) Preprocessor (c) Bug (d) Debug 2018 25. The output of the compiler is: (2 Times) (a) library code (b) linked code (c) object code (d) source code The Data type in C that can handle Fractional values is called: 26. (a) long (b) char (c) float (d) int 27. stdio stands for (a) standard input output (b) simple input output (c) string input output (d) start input output 28. The target code produced by the compiler is: (a) object code (b) source code (c) library code (d) linked code 29. The output of the compiler is called: (a) Library code (b) Source code (c) Linked code (d) Object code 30. The extension of header file is: (a) .c (b) .txt (c) .hf (d) .h 2019 C is a: 31. (a) High Level language (b) Low level language (c) Assembly language (d) Machine Language Which of the following language provided the basis for the development of C? 32. (a) (b) c++(c) Pascal (d) Cobol 33. The programmer usually enters source code into a computer using: (a) Compiler ' (b) Text editor (c) Debugger (d) (Linker **ANSWERS** 1 2 3 5 6 7 8 9 10 D В C C Α. Α B A В D 11 12 13 14 15 16 17 18 20 19 В Ċ В A В C В B В D 21 22 23 24 25 26 27 28 29 30 A Α Α A C ·C Α A. D D 31 32

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Α

SHORT QUESTIONS OF CHAPTER-8 IN ALL PUNJAB BOARDS 2011-2021

Define Programming Language.

Ans:

A set of words and symbols that are used to write programs is called programming language. The programming language are used to write computer programs. A programming language is a means of communication between a user and computer, i.e. C++, Java etc.

Who is Programmer?

(3 Times)

A person who develops a computer program is called programmer. The programmer develops programs to instruct the computer how to process data and convert it into information. Programmer uses programming language or tools to write programs.

Differentiate between Syntax Error and Logical Error.

3. Ans:

Syntax Error

Logical Error

Syntax error is a type of error that occurs when an invalid statement is written in program. Syntax errors by compiler. A detected are program containing syntax errors cannot be compiled successfully. Typing 'forr instead of 'for' is an example of syntax error.

A type of error that occurs due to poor logic of the programmer is known as logical error. A statement with logical error is executed and may produce unexpected and wrong results in the program. Typing a wrong formula to calculate the results is an example of

What do you mean by case sensitive in C-language?

Ans:

Case sensitivity means upper case and lower case alphabets/letter can be used for different propose. C is a case sensitive language it can differentiate uppercase and lowercase words. All keywords are written in lowercase.

Write two reasons why it would be preferable to write a program in C rather

than machine language.

Ans:

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The two reasons to write a program in C rather than machine language are as follows:

I. C language based on English like syntax and machine language based on 0,1 it becomes very difficult to write program in machine language.

II. C language is portable its means a program written in C language can be run on different types of computer. (5 Times)

State the purpose of defining preprocessor directive.

Preprocessor directives are the first line of the C program. Define directives is used to declare constant that remains same during execution of the program.

What is an assembler? 7,

An assembler is translating program that translates the instruction of an assembly Ans: language into machine language.

(7 Times) Define object code.

The computer program in machine like language or in a low-level language is Ans: called object program or object code. An object program can be easily understandable by the computer. It runs more efficiently on the computer system.

Ans:

Distinguish between low level and high level language. (3 Times)

High level Low level High-level language is easy. low-level language is difficult. Low-level High-level languages provide less hardware more provide languages hardware support. support. The programs written in lowlevel language are faster in execution.

Define preprocessor directive. 10.

(2 Times)

The preprocessor directives are commands that give instructions to c Ans: preprocessor. Preprocessor directives start with hash # and the keyword include or define. These directives are written at the start of program.

What is syntax error? Give an example. 11.

Syntax error is a type of error that occurs when an invalid statement is written Ans: in program. Syntax errors are detected by compller. A program containing syntax errors cannot be compiled successfully. Typing 'forr' Instead of 'for' is an example of syntax error. (5 Times)

12. Define linking.

Linking is the process in which the object file produced by the compiler is linked Ans: to many other library files. The library files must be linked with the object file before execution of the program.

What is header file? 13.

The header files contain the declarations or information of standard library Ans: functions. These functions are called in the main body of the program to perform different tasks. The extension of a header file Is ".h".

Define the terms Bug and Debug. 14.

An error in a computer program is known as bug. The programmer can make Ans: different errors while writing programs. The errors must be removed from the program before it can be compiled and executed. The process of finding and removing bugs from a program is called debugging.

What do you mean by Delimiters? 15.

The statements of the program are written in curly braces. The curly brace { is Ans: called opening brace and } is called closing brace. The braces are also known as delimiters. These statements inside these braces are collectively known as the body of a program.

Give an example of Preprocessor Directive. 16.

The preprocessor directives are commands that give instructions to C Ans: preprocessor. Preprocessor directives start with hash # and the keyword include or define. These directives are written at the start of program. Example are (ii) # define (I) # include

Why is C known as strongly typed language?

C is strongly typed language. It means that a variable must always be declared 17. before it can be used in a program. The compiler gives an error if an undeclared Ans: variable is used in a program.

2016

Define source code.

A program written in a high level language is called source code. It is also called 18. source program. It cannot be executed by the computer directly. Language Ans: processor is required to convert it into object code.

A well-defined set of instruction given to computer is called computer program. It 19. is written in a programming language. Computer always follows the instructions written in the program. A person who develops the program is known as

programmer. (3 Times) Define High Level Language.

A type of language that is close to human language and far away from computer is 20. called high level language. The instructions in these languages are similar to English language such as input and print etc. Computer cannot execute high level language directly. Language processor is required to convert them to object code.

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How a source code is different than an object code?

(3 Times)

Ans:

Object code	Source code	
The computer program in machine like language or in a low-level language is called object program or object code. An object program can be easily understandable by the computer. It runs more efficiently on the computer system.	language is called source code. It is also called source program. It cannot be executed by the computer directly.	

List four advantages of C-Language. 22.

Ans:

- 1. Convenient language
- 2. Well-structured language
- 3. Machine independence
- 4. Small language

What do you mean by bug? 23.

An error In a computer program or software is known as a bug. A programmer can Ans: make different errors while typing or writing a program. compile if it contains any bug.

List any four commonly used High Level Languages. 24.

(2 Times)

C++, Java, Pascal, Basic, Cobol. Ans:

Why the Source Code cannot be executed directly? 25.

Computer can only understand binary or machine language. But high level Ans: language cannot understand by the computer. So to run a source code on computer we need a language processor to convert it into machine language. Then it becomes understandable by computer.

Differentiate between Preprocessor directives and header file.

Ans:

Ans:

Preprocessor directives	Header file
Preprocessor directives are the	different tasks. Each header file has

Name two main categories of programming languages. 27.

1. High level language Ans:

low level language

Define Runtime Error. 78.

Runtime errors occur during the time of the execution of the program. It occurs when a statement directs the computer to execute an illegal operation such as a number dividing by zero.

2017

How program logic implemented? 29.

In unstructured programming language, the entire logic of the program is Implemented in a single module or function. The program written in this language Ans. is error prone, difficult to understand, modify and debug.

Define assembly language? 30.

It is a low level language. It is one step higher than machine language. In assembly language instructions are replaced with English like words know as mnemonics. Ans.

- 31. Write down preprocessor Math.h
- Ans. # Include <math.h>
- 32. Differentiate between machine and assembly language?
- Ans. Machine Language
 - I) The type of language in which instructions are written in binary form is called machine language.
 - II) It is directly understood by computer.
 - III) It is very fast.
 - lv) It is machine dependent.

implement a specific functions.

Assembly Language

- I) it is one step higher than machine language.
- II) Translator is required for this language.
- III) It is slower than machine.
- lv) It is not machine dependent,
- 33. What is meant by Structured Program Language? Ans.

(2 Times) in structured programming language the entire logic of the program is divided into a number of smaller modules or functions. Each module is a piece of code that

What is meant by comments? Also give an example? 34.

Ans. Comments are the statements that are not executed by compiler. They are of two types,

1) Multi line comments *.....*/-II) Single line. \\..... j=@ \\ | love C++,

2018

- 15. Why does machine language programs execute faster?
- A program written in machine language can be executed very fast by computer Ans: because computer understands it directly and it does not need any translator to understand this language,
- What is the use of main () function in C. 36.

(2 Times)

- Ans: The main () function is the place where execution of a C program starts. When the program is executed, the control enters main () function and starts executing its statements.
- 37. What is meant by language processor?
 - A language processor or translator is a type of system software that converts programs written in high level language into machine language. Every computer language has its own translator.
- 38, Why the logical error is the most difficult error to find?
- The logical error is the most difficult error because it cannot be detected by the Ans: compiler. It does not crash the programs. The user needs to review the whole program to find logical error.
- g. Enlist logical operators.
- Ans: AND operator (& &)
 - OR operator (11) 11.
 - NOT operator (I)

40. Ansi

Differentiate between compiler and interpreter. OR What is compiler? (2 times)

Compiler A compiler is a program that converts the instructions of a high level language into machine language as a whole. The compiler checks whole programme and generate machine instructions.

Interpreter

An interpreter is a program that converts one statement of a program into machine language at one time, it executes a statement before translating the next statement of the source program.

Describe the concept of linker. 41. Ans:

A program that combines the object program with additional library files is known as linker. It is a part of c++ compiler. The linker generates error message if the library file does not exist. A new file is created with lexe extension if the process of

What are logical errors? 42.

A type of error that occurs due to poor logic of the programmer is known as logical Ans: error. A statement with logical errors may produce wrong results. For example typing a wrong formula.

2019

Differentiate between linker and loader? 43.

Ans:

2,

4.

5,

Linker	Loader	
A program that combines the object program with additional library files is known as linker. It is used to perform the process of linking. In this process, the library files are linked with object program. These files are used to accomplish different tasks such as input/output etc.	file in the memory is known as loader. A program must be loaded in the	

44. Why do you include "stdlo.h" header files in C-program?

Ans: This header file includes in C-program because this header file contains the definitions of built-in input and output functions such as printf () and scanf () etc.

45, What is the purpose include directive?

The "include" preprocessor directives enable a program to access a library. Each Ans: library contains different header files. The include preprocessor directive is used to include header files in the program.

How is header file included in C-program? 46.

The preprocessor directive include is used to add a header file in the program. The Ans: name of the file is written in angle brackets <> after # include directive.

LONG QUESTIONS OF CHAPTER-8 IN ALL PUNJAB BOARDS 2011-2021

Briefly describe the basic structure of C program with example.

How would you create, edit, compite and execute a C program? Discuss briefly.

3,

What is an Error? Explain different types of Errors in C-Language. (2 Times) What necessary steps are taken to prepare a C program for execution? Explain in

What is language processor? Describe different types of language processor. detall.