



Name

1۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں، صرف صحیح جواب والا دائرہ بھریں۔

Roll No

2۔ دائروں کو شیڈ (بھرنے) کے لئے نیلے یا کالے رنگ کا مارکر استعمال کریں۔

3۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time Allowed: 20 Minutes

SECTION – A

Marks : 15

- 1 Consider the given ternary operator expression and determine its output: $(7==5)? 4 : 3$ ☒ 4 ☐ 3 ☐ 5 ☐ 7
- 2 When a program is currently executing, in which state is the process? ☒ Running ☐ Waiting ☐ Ready ☐ Suspended
- 3 When a process's input/output operation is completed, to which state the process shall transfer? ☒ Ready ☐ Blocked ☐ Running ☐ Exit
- 4 is a method of interacting with an operating system using commands. ☒ CLI ☐ GLI ☐ GUI ☐ VUI
- 5 Software Backup and Recovery requirement is a type of requirement. ☒ Non-functional ☐ Functional ☐ Operational ☐ Surveillance 337
- 6 Quality assurance team works at.....phase of the SDLC. ☐ Planning ☐ Coding ☐ Deployment ☒ Testing
- 7 The variable declared inside a function body is called..... ☐ Global ☒ Local ☐ Static ☐ Inline
- 8 A class that is derived from another class is called.....class. ☐ Parent ☒ Child ☐ Base ☐ Abstract
- 9 The process of switching the CPU execution from one program to another is referred to as.....switching. ☒ Context ☐ Execution ☐ Program ☐ Process
- 10 The execution of a C++ program starts from..... ☐ #include<iostream> ☐ Using namespace std; ☐ First line of program ☒ int main()
- 11 No. of bytes are reserved for Bool data type. ☒ One (01) ☐ Two (02) ☐ Four (04) ☐ Eight (08)
- 12 is used to get numbers at runtime. 400 ☒ cin ☐ cout ☐ getch() ☐ getche()
- 13 Which escape sequence is used to produce beep sound in C++? ☒ \a ☐ \b ☐ \s ☐ \r
- 14 int A[5]={2,4,6,7,8}; cout<<A[2]; what will be the output? ☐ 2 ☐ 4 ☒ 6 ☐ 7
- 15 The location number of an item in an array is called..... ☐ Data ☐ Value ☒ Index ☐ Constant

PR XII (A-I-A) 26
COMPUTER SCIENCE

Inter Part –II (New)
(Fresh/Reappear)

Note: Time allowed for Section – B and Section – C is 2 Hours and 40 minutes.

Section – B

Marks: 40

Q-II Answer any TEN parts. Each part carries FOUR marks.

1. Discuss Multi-programming operating system. Write its two advantages. 2+1+1=4
2. Define SDLC. Write three importance of SDLC. 1+1+1+1=4
3. Draw Flow chart for adding three (03) numbers and display the result. 4
4. Discuss Distributed Operating System. Write its four advantages. 2+0.5x4=4
5. Differentiate between getch() and getche() functions. 4
6. Write a C++ program that takes two values at runtime and find the remainder of these two values. 4
7. Write a C++ program that combines two strings "Hello" and "Ali" using the strcat() function and produce output "HelloAli". 4
8. Write a C++ Program that produces the following sample output. 4

Number	Square
2	4
3	9
4	16

9. Define local variable and specify its scope. Elaborate your answer with C++ program. 2+2=4
10. Define Global variable. What is the scope of Global variable? Elaborate your answer with C++ program. 1+1+2=4
11. In which scenario, the arguments are passed by value and by reference? 2+2=4
12. What is the main difference between variable and pointer? Write syntax for declaring them. 2+2
13. Write a C++ program that display the asterisks(*) in the given pattern. 4

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*      *      *      *
*      *      *
*      *
*
    
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Section – C

Marks: 20

Note : Attempt any TWO questions. All questions carry equal marks.

14. (a) Write the syntax for IF-Else Control structure. Write a C++ program that checks whether the number is even or odd. 2+3=5
- (b) Define Array. Write syntax for declaring one dimensional and two dimensional arrays. 2+1.5+1.5=5
15. (a) What is Switch statement? Write its syntax. 2+2=4
- (b) Write a C++ program that define three cases; 'E', 'U' and 'P' for language selection among the English, Urdu and Pashto respectively, using switch statement. 6
16. (a) Elaborate Function Overloading. Write down any three of its advantages. 2+1x4=5
- (b) Write C++ program that overloads three functions with name "Multiply ()" on the basis of no. of arguments. 5
17. (a) Define constructor. Why they are used? 2+3=5
- (b) Write a C++ program that elaborates the concept of constructor overloading. 5