

PROGRAM

554/Phs.

SKBU/UG/4th Sem/Phs/RT404/21

U.G. 4th Semester Examination - 2021

PHYSICS

Course Code : BPHSSERT404

Course Title : Computational Physics Skills

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate marks.

Answer all the following questions by choosing correct alternative: $2 \times 25 = 50$

1. What is a flowchart?
 - a) a sequence of tasks
 - b) a diagram that represents the overall workflow
 - c) a pie chart
 - d) a list of variables
2. Which of the following punctuation marks is used to denote the completion of a statement/instruction in a C code?
 - a) Full stop (.)
 - b) Comma (,)
 - c) Semicolon (;)
 - d) Question mark (?)

3. How to write a comment in a C code?
 - a) Starting with a slash-asterisk (/*) and ending with a asterisk-slash (*/)
 - b) Starting with a asterisk-slash (*/) and ending with the same
 - c) Written within the code with extra indent
 - d) All of the above
4. A C program is the combination of
 - a) statements
 - b) functions
 - c) variables
 - d) all of the above
5. What role does the command "cd" play in linux?
 - a) displays all files and folders in the working directory
 - b) changes directory
 - c) opens the next file in the folder/directory
 - d) None of the above
6. Find the incorrect C keyword.
 - a) breaker
 - b) shorter
 - c) going
 - d) All

[Turn Over]

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(2)

7. What is an array in C programming?
- Collection of numbers
 - Collection of similar type of data items
 - Collection of keywords
 - None of the above
8. What are pointers in C programming?
- variables which hold addresses of other variables
 - an entity that points in a particular direction
 - a constant of a specific type
 - None of the above
9. Types of Real numbers in C are
- float
 - double
 - long double
 - All the above
10. What is a "for loop"?
- a particular kind of loop in C programming
 - a repetition control structure
 - both of the above
 - None of the above

11. What is the output of the C program?

```
int main()
{
    if(4 > 5)
    {
        printf("Hurray..\n");
    }
    printf("Yes");
    return 0;
}
```

- Yes
- Hurray..
Yes
- Hurray..Yes
- Compiler error

12. What is the output of C program?

```
int main()
{
    int a=5;
    while(a==5)
```

```

    {
        printf("RABBIT");
        break;
    }
    return 0;
}

```

- a) RABBIT is printed unlimited number of times
- b) RABBIT
- c) Compiler error
- d) None of the above

13. Number of keywords are present in C language–

- a) 30
- b) 32
- c) 34
- d) 36

14. Which of the following is a header file in C programming?

- a) `stdio.h`
- b) `return 0`
- c) `main (void)`
- d) C programme files

15. Which of the following is not a loop in C programming?

- a) `for`
- b) `while`
- c) `do-while`
- d) `if-else`

16. Which of the following is an integer constant?

- a) 25.4
- b) 25.124
- c) 25
- d) None of the above

17. What is the output of the program?

```

int main()
{
    int a = 25%10;
    printf("%d", a);
    return 0;
}

```

- a) 2.5
- b) 2
- c) 5
- d) Compiler error

18. What is a keyword?
- a) a special word whose meaning is known to the compiler
 - b) a word with a very significant impact
 - c) a word that works like a key
 - d) None of the above
19. For a typical program, the input is taken using _____.
- a) scanf
 - b) Files
 - c) Command-line
 - d) All of the mentioned
20. What is required in each C program?
- a) The program must have at least one function
 - b) The program does not require any function
 - c) Input data
 - d) Output data
21. What is the following is invalid header file in C?
- a) math.h
 - b) mathio.h
 - c) string.h
 - d) ctype.h

22. _____ command is used to define the document's title in LaTeX.
- a) \ title
 - b) \ author
 - c) \ date
 - d) \ document
23. _____ command is used to specify the author(s) of the document in LaTeX.
- a) \title
 - b) \author
 - c) \date
 - d) \document
24. Both Tex and LaTeX use the file extension _____.
- a) .text
 - b) .tex
 - c) .txe
 - d) .latex
25. Full form of PDF is _____.
- a) perfect document format
 - b) portable document format
 - c) portable double format
 - d) perfect deed format