Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **16CS2001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ESSENTIALS OF PROGRAMMING** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Explain the various types of computers with example. | CO1 | 15 |
| b. | Differentiate Internet and Intranet. | CO1 | 5 |
| (OR) | | | | |
| 2. |  | Explain the different types of looping statements with examples. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Create an application to purchase the stationary items for school students using a switch statement. | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Describe the structure of a C program with its essential sections and identify the sections present in the following C program.  /\*Program for conversion of marks\*/  #include <stdio.h>  #define max 60;  double cal(double);  double x,y;  main()  {  double a,b;  printf("Enter percentage of marks for maths and physics ");  scanf("%lf%lf",&x,&y);  a=cal(x);  b=cal(y);  printf("Final marks : %lf , %lf",a,b);  }  double cal(double t)  {  double c;  c=t/100\*max;  return c;  } | CO2 | 20 |
|  |  |  |  |  |
| 5. |  | Discuss the role of conditional operator with syntax. Write a program to read the marks for a person and print ‘Pass’ if the marks is 50 and above and ‘Fail’ if the marks is below 50. | CO3 | 20 |
| (OR) | | | | |
| 6. | a. | Write a program to do the arithmetic operations on two integer values as per the choice given by the user. | CO2 | 15 |
|  | b. | Write short notes on ternary operator in C. | CO1 | 5 |
|  |  |  |  |  |
| 7. | a. | Explain the types of functions with an example for each. | CO1 | 17 |
| b. | Define function. | CO1 | 3 |
| (OR) | | | | |
| 8. | a. | Write a C program to perform various file operations in C. | CO1 | 10 |
| b. | Create a structure to generate the student progress report for 5 students. | CO3 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Describe the various string operations in C with examples. | CO2 | 15 |
| b. | Write about console I/O functions in c with examples. | CO1 | 5 |