



## BRAINWARE UNIVERSITY

**Term End Examination 2023-2024** 

Programme - Dip.CSE-2022/Dip.EE-2022/Dip.CE-2022/Diploma in Robotics & Automation-2023/Dip.CE-2023/Dip.CSE-2023/Dip.EE-2023/Dip.ME-2023

Course Name - Introduction to IT Systems

Course Code - ES101 (Semester I)

Time: 2:30 Hours Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) Discuss the number system that uses the digits 0-9 and the letters A-F
  - a) Binary

  - c) Octal

- b) Decimal
- d) Hexadecimal

- (ii) Define operating system?
  - a) Collection of programs that manages hardware resources(
  - c) All of the mentioned

- b) System service provider to the application programs
- d) Link to interface the hardware and application programs
- (iii) To access the services of operating system, select the interface is provided by the
  - a) System calls

b) API

c) Assembly instructions

- d) Library
- (iv) Tell who was the inventor of Android Operating System?
  - a) Steve Jobs -

b) Bill Gates

c) Kernel Torvalds

- d) Andy Rich Nick
- (v) Examine out the error, if any in the program. #include int main() { int a = 10; switch(a) { } printf("This is c program."); return 0; }
  - a) Error: No case statement specified
- b) Error: No default specified

c) No Error

- d) Error: infinite loop occurs
- (vi) Examine out the error, if any in the program. #include int main() { int i = 1; switch(i) { printf("This is c program."); case 1: printf("Case1"); break; case 2: printf("Case2"); break; } return 0; }
  - a) Frror: No default specified
- b) Error: Invalid printf statement after switch statement
- c) No Error and prints "Case1"
- d) None of these

(vii) Infer what are Keywords?

b) Keywords have some unknown meanings

10. Explain the process of declaring a variable in a programming language. What information is	3 (3)
typically included in a variable declaration?  11. Explain the purpose of decision control statements in programming, and why are they	(5)
essential for creating conditional logic?  12. Justify the purpose and operation of the bitwise left shift operator	(5)
OR  Justify the purpose and operation of the bitwise right shift operator	(5)
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Library
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