| No. 2 | Page | MN10AA | D Coultering 100%. | GAAOINI |
|--------|----------------------------------|----------------|-----------------------------------|-----------|
| TIME : | 2 Hrs. | OWT TO S | the following question : | Marks: 60 |
| Note: | т. | of.compute | lain different characteristics | a) Exp |
| 1. All | questions are compulsory. | number to d | onvert the following binary | b) i) C |
| 2. All | questions carry equal marks | 110)2 | (10101) ₂ ii) (10) | 1) |
| | uy numbers. | ollowing bins | ind 2's complement of the fo | ii) F |
| Q.1 A) | State whether the following | g statement | s are TRUE or FALSE. | [6] |
| 1. | The one's complement of a b | inary numbe | er is defined as the value | c) Writ |
| | obtained by inverting all the | bits in that | binary number. | 1) S |
| 2. | The third Generation of comp | puters used | transistors. | |
| [21]3. | Compiler converts the entire | program to | machine code. | Q.3 Agswe |
| 4. | The format character of char | acter is %s. | lain characteristics of interp | d) Exp |
| 5. | Printf() function is a keywor | algorithm .b | w the flowchart & write an a | e) Dra |
| 6. | \t is an escape sequence wh | ich moves th | ne cursor to the next tab pos | sition |
| | is the same line. I driw noise | outers in rel | cuss the application of comp | η Dis |
| 1 | | | ecommerce. | |
| B) | Select the appropriate opti | ion from the | e following. | [6] |
| [21]1. | Accumulator is a type of reg | ister in the . | r the following question of | Q.4 Answe |
| | types of consta tinu tuquI (a | h(ddifferent | output unit materios si ta | g) Wh |
| • | c) control unit | d) | mple of each. UJA | exa |
| 2. | The decimal number system | has a base | te C- programmuminum do | hW (d |
| | a) 2 (alculate & display 2 (a | t (d years (n) | and the period of investm8n | (7) |
| | c) 10 .001 \ | mq = is d)ni | ple interest on the same | mis |
| 3. | . The parellelogram shape in | the flowchar | et signifies desence besigning to | við (i |
| | a) Processing | b) | Input/output | 1) 8 |
| | c) Decision making | d) | all of these and bris () stud | 2) [|
| 4. | . An identifier must begin wit | h | | |
| [12] | a) Alphabet | OWT vb) | underscore underscore and as | Q.5 Answ |
| | t, if purchase amountigib (2) | (be amoun | Alphabet or underscore | j) Wr |
| 5 | If $x = 1234$ then output of the | he statemen | t printf ("% 6d/n", x); is | 65 |
| | a) hh1234 | - b) | b 1234 | |

c) 1234bb 03 of I mort eradmun nev d) a 1234 b of mmergorg-s strW (x

6. The function which can read multi word string is

1

Q.2 Answer the following question: Any TWO [12] a) Explain different characteristics of computer. Note: b) i) Convert the following binary number to decimal lighted as a moissoup IIA 1) (10101) ii) (10110)₂ 3) (1100), The enouse of IA ... ii) Find 2's complement of the following binary numbers. 1) (11101) 2) (110011) 3) (01010) c) Write a short note on : "leb et redmun yranid a lo memelement one sono ent 1) Super Computer 2) Laptops' de sid salt lis galicoval vel benistelo 2. The third Generation of computers used translators. Q.3 Answer the following questions :Any TWO d) Explain characteristics of interpreter and campiler. e) Draw the flowchart & write an algorithm to display numbers from 6. It is an escape sequence which moves the cursor to the next tab.00 of f f) Discuss the application of computers in relation with social media and ecommerce. Q.4 Answer the following question :Any TWO g) What is constant? Which are the different types of constants? Give example of each. h) Write C- programm to input the amount invested (p), the rate of interest (r) and the period of investment in years (n) and calculate & display the simple interest on the same, Hint, si = pnr / 100. i) Give the difference between the following in C language. 1) gets () and scanf () 2) puts () and printf() of Decision makinge 4. An identifier must begin with Q.5 Answer the following question :Any TWO [12] j) Write c-program to input purchase amount, if purchase amount exceeds 15000 then also count of 10% is given else 5% is given. Display purchase

l) Explain break statement and the continue statement with its syntax and

k) Write c-programm to display all even numbers from 1 to 50

amount, discount and net amount.