Question Paper Code: 80637

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

First Semester

Civil Engineering

GE 2112/CS 16/080230001 — FUNDAMENTALS OF COMPUTING AND PROGRAMMING

(Common to All Branches)

(Regulations 2008)

Time: Three hours Maximum: 100 marks

Answer ALL questions.

PART A —
$$(10 \times 2 = 20 \text{ marks})$$

- 1. Convert binary number 1100101 in to Decimal Number.
- 2. What are the two methods for checking parity?
- 3. What are the types of web browsers?
- 4. List some of the internet applications.
- 5. What is an algorithm?
- 6. What are flowcharts and list down their advantages?
- 7. What are the main feature and applications of C language?
- 8. Write a code segment using while statement to print numbers from 10 down to 1.
- 9. What is a pointer?
- 10. Write any four features of arrays.

PART B —
$$(5 \times 16 = 80 \text{ marks})$$

11. (a) Explain in detail about basic computer organization with a neat sketch. (16)

Or

(b) What are the applications of computer? Discuss in detail about classification of computers. (16)

12.	(a)	(1)	Explain about the types of software.	(10)
		(ii)	Write about UIRL.	(6)
			Or	
	(b)	(i)	Discuss the software development steps.	(10)
		(ii)	Explain the common types of internet connections,	(6)
13.	(a)	(i)	What is pseudo code? Explain how it can be designed and benefits and limitations.	its (8)
		(ii)	Briefly discuss about word processor and spread sheets.	(8)
			Or	
	(b)	_	lain sequence logic, selection logic and iteration logic design struct seudocode. $(5 + 5 + 6 =$	
14.	(a)	(i)	What are the different operators available in C? Explain we examples.	vith (12)
		(ii)	Differentiate between signed and unsigned integer.	(4)
			Or	
	(b)	(i)	Write a C program that reads a character and displays only vowels using switch case structure.	the (8)
		(ii)	Write a C program that displays a pyramid structure us numbers.	ing (8)
15.	(a)	(i)	Write a C program to sort the given set of numbers in ascend order.	ing (8)
		(ii)	Discuss about any eight built-in functions.	(8)
			Or	
	(b)	(i)	Write the syntax of structure declaration in 'C' program. Give example.	an (4)
		(ii)	Distinguish between structure and union.	(4)
		(iii)	Write a C program to find the addition of two matrices.	(8)

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