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B. Tech. Degree II Semester Examination in Naval Architecture and Ship Building April 2019

ST 18 1202 COMPUTER PROGRAMMING

(2018 Scheme)

Time: 3 Hours

Maximum Marks: 100

PART A (Answer ALL questions)

 $(5\times 4=20)$

- I. (a) What is meant by 'void function'?
 - (b) What is unary and ternary operators in c?
 - (c) Write notes on variable data types in c language
 - (d) Describe argc and argv used in command line arguments
 - (e) What is the advantage of using pointers in c function?

PART B

			$(5 \times 16 = 80)$
II.	(a)	Explain various secondary storage devices, their merits and demerits.	(8)
	(b)	What are the major task to be performed by the operating system? OR	(8)
Ш.	(a)	Describe the architecture and working principle of hard disk.	(10)
	(b)	How do we represent data in computer? Also define bit, byte, nibble and word.	(6)
IV.	(a)	What are the various types of looping strategies?	(8)
	(b)	Write an algorithm to print first 10 prime numbers. OR	(8)
V.	(a)	What is data structure? Describe its use with suitable example.	(8)
	(b)	Outline the steps in computer based problem solving procedures.	(8)
»VI.	(a)	What is an array? How do we categorize arrays? Also explain initialization o one dimensional integer arrays.	f (8)
	(b)	Write a c language program to find the sum of even numbers and odd number in a given set of numbers.	s (8)
		OR	

(P.T.O.)

VII.	(a)	Write a c language program to sort a set of numbers in ascending order.	(8)
	(b)	Explain arithmetical and logical operators in c.	(8)
VIII.	(a)	Illustrate call-by-value and call-by-reference method using examples.	(8)
	(b)	What is function? Write syntax for function declaration and function calling. What is meant by actual and formal parameters in a function? OR	(8)
IX.	(a)	Write a program to find minimum in an array using function.	(8)
	(b)	What are the various mechanism for parameter passing in functions? Explain with simple programs?	(8)
Χ.	(a)	Explain the usage of structures in c language with simple program.	(8)
	(b)	What is pointer? What are the basic operators used with pointers? OR	(8)
XI.	(a)	Discuss the file accessing functions in c.	(8)
	(b)	Write a c program to create a data file named 'student.txt' to store register no, name and marks of three subjects of n students.	(8)
