NEW

Part-III 3-Tier

2018

COMPUTER SCIENCE

PAPER-IVA

(General)

Full Marks: 45

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group-A

		Answer any one question:	1×15
1.	(a)	What are the advantages of oops in C++.	3
	(b)	Why iostream header file is used?	2

(Turn Over)

(c) What do you mean by cascading of I/O operator?

			3
	(d)	What is constructor?	2
	(e)	What is inheritance and what are the types inheritance?	of ⊦3
2.	(a)	Briefly describe the seven layered architecture TCP/IP Model.	of 8
	(b)	What are the major component of LAN? Describe ea of them.	ch 7

Group—B

Answer Q. No. 3 and any two from the rest: $4+(2\times8)$

3. Briefly describe the principle operation of a MODEM.

4

- 4. (a) What is a Domain Name System (DNS)? 3+5
 - (b) Define NetId and HostId of a network. Classify IPv4 addresses and specifly their ranges.

5.	Distinguish between Router, Gateway Hub and Bridg	zе				
		8				
6.	(a) Write a C++ program to check whether a number prime or not.	i:				
	(b) Write the characteristics of friend function.	3				
	Group—C					
	Answer Q. No. 7 and any two from Q. No. 8:					
	2+(2×	4)				
7.	What is full duplex line?	2				
8.	Write short notes on (any two):	2				
	(a) TDM;					
	(b) CRC;					
	(c) Scope resolution operator.					

NEW

Part-III

2018

COMPUTER SCIENCE

PAPER-IVB

(General)

Full Marks: 20

Time: 2 Hours

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Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer any one question:

1×15

- 1. Write a program in C++ to find maximum of three numbers.
- 2. Write a program in C++ to generate a Fibonacci number between 15 and 50.

- Write a program in C++ using constructor to find average of two numbers.
- 4. Write a program in C++ to show the concept of single inheritance.
- 5. Write a program in C++ to draw the following figure:

* * *

15

- 6. Write a program in C++ to add two matrices. 15
- 7. Write a program in C++ to find the square root of a number using inline function. 15
- 8. Write a program in C++ to show function overloading.
- Write a program in C++ to arrange a set of numbers in ascending order.
- 10. Write a program in C++ to find whether a given number is divisible by 3, 5 or 7.

| Viva + PNB - 05 Marks |