

NEW

Part-III 3-Tier

2017

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 do you mean by network reference mode?
Describe ISO/OSI reference model in brief. 2+8

(Turn Over)

- (b) How does TCP/IP reference model differ with ISO/OSI reference mode? 3
- (c) What do you mean by network topology? 2
2. (a) What is object-oriented programming? How it differ from Procedural-oriented programming? 2+3
- (b) Define Class and Object with example. Why class is known as abstract data type? 2+2
- (c) Write a program to add all digits of a 4-digit number in C++. Use object and class. Use constructor also. 6

Group—B.

Answer Q. No. 3 and any two from the rest: 4+(2×8)

3. Differentiate between guided media and unguided media. 4
4. (a) Construct the Hamming Code for the bit sequence — 1001101. 6
- (b) What is half duplex line? 2
5. (a) Compare LAN and WAN. 4

(b) Write the difference between Circuit Switching and Packet Switching. 4

6. Define Polymorphism. Explain function overloading with an example. 2+6

Group—C

Answer Q. No. 7 and any two from Q. No. 8:

2+(2×4)

7. What is bit rate and band rate? 2

8. Write short notes on :

(a) FDM ;

(b) Arrow (\rightarrow) operator ;

(c) friend function ;

(d) Destructor.

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Part-III 3-Tier
2017
COMPUTER SCIENCE

PAPER—IVB (SET — 1)

(General)

(PRACTICAL)

Full Marks : 20

Time : 1 $\frac{1}{2}$ 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.

Answer any one question.

1. Write a program in C++ to add two matrices. 15
2. Write a program in C++ to show the use of constructor. 15
3. Write a program in C++ to show the use of destructor. 15

(Turn Over)

4. Write a program in C++ to find whether the year is leap or not. 15
5. Write a program in C++ to multiply two number using inline functions. 15
6. Write a program in C++ to create a class employee and display the name, age of the employee. 15
7. Write a program in C++ to show single inheritance. 15
8. Write a program in C++ to implement function overloading. 15
9. Write a program in C++ to find whether a number in armstrong. 15
10. Write a program in C++ to find a factorial of a given number. 15

[VIVA + PNB — 05 marks]
