



Reg. No. :

Name :

II Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.)
Examination, May 2014
CORE COURSE IN PHYSICS
2B02 PHY : Informatics
(2011 Admn.)

Time: 3 Hours

Max. Weightage: 30

SECTION – A

Multiple choice questions **each** carries ¼ W :

1. i) Satellites used for intercontinental communications are known as
 a) Comsat b) Domsat c) Marisat d) Intelsat
- ii) _____ is not a basic element in the computer system.
 a) Macro processor b) Main memory
 c) I/O device d) System bus
- iii) Name the operating system, which was originally designed by the scientist and engineers for use
 a) UNIX b) OS/2
 c) MSDOS d) None of these
- iv) Which of the following operators cannot be over loaded ?
 a) A b) = c) . d) !
2. i) Which of the following is not a correct C++ comment ?
 a) /*comment*/ b) //comment*/
 c) /*xx*/ d) /*//comment*/
- ii) Which of the following is correct for C++ ?
 a) true = 1, false = 0
 b) true = 0, false = 1
 c) true = any non-zero value, false = 0
 d) None of the above



- iii) Which of the following is not a valid access specifier ?
 a) Private b) Public c) Protected d) Mutable
- iv) The resolution of a monitor is governed by
 a) Screen size b) No. of bixels
 c) Contrast d) Brightness

(2×1=2)

SECTION – B

Answer any **six**, **each** question carries **1 W** :

3. What is internet ?
4. Give the principle of ATM.
5. What is operating system ?
6. Give a short note on cyber ethics.
7. What are operators ?
8. With suitable example explain 'jump' statement.
9. Give the syntax of a do-while loop.
10. Why do we need virtual functions ?

(6×1=6)

SECTION – C

Answer **any nine** questions. **Each** carries **2 W** :

11. Write a note on mobile phone technology.
12. Briefly explain cellular wireless networks.
13. Give a short note on computer viruses.
14. Discuss cyber laws.
15. Why is an array called a derived data type ?
16. What do you mean by dynamic initialization of a variable ?



17. Explain how stew manipulator works ?
18. Write a program to print the following output using for loops.

```

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
  
```

19. What is the main advantage of passing arguments by reference ?
20. With suitable example explain dynamic initialization of a variable.
21. Name the operators that can not be overloaded in C++.
22. Describe the major parts of a C++ program.

(9×2=18)

SECTION – D

Answer **any one**. **Each** question carries **4 W** :

23. Briefly explain the following :
 a) INFLIBNET
 b) NICNET
 c) BRNET.
24. a) Write a program to check whether a number is Armstrong or not.
 b) What are the applications of pointer ?

(1×4=4)