283005

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III Year (T.D.C.) Science Examination, 2018

COMPUTER SCIENCE

Paper–II

(Object Oriented Programming Using C++)

Time Allowed : Three Hours
Maximum Marks : 50

PART - A (खण्ड-अ) [Marks : 10

Answer all questions (50 words each).
All questions carry equal marks.
सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर पचास शब्दों से अधिक न हो।
सभी प्रश्नों के अंक समान हैं।

PART - B (खण्ड-ब) [Marks : 25

Answer *five* questions (250 words each).
Selecting *one* from each unit. All questions carry equal marks.
प्रत्येक इकाई से **एक-एक** प्रश्न चुनते हुए, कुल **पाँच** प्रश्न कीजिए।
प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।
सभी प्रश्नों के अंक समान हैं।

PART - C (खण्ड-स) [Marks : 15

Answer any *two* questions (300 words each).
All questions carry equal marks.
कोई **दो** प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।
सभी प्रश्नों के अंक समान हैं।

PART - A

UNIT - I

1. (i) What is an object ?

(ii) Define manipulators.

UNIT - II

(iii) What is the application of bitwise operators ?

(iv) Differentiate between local and global variable.

UNIT - III

(v) Define overloading.

(vi) What is mean by static data members ?

UNIT - IV

(vii) Define default constructors.

(viii) Why inheritance is used ?

UNIT - V

(ix) Define pointers.

(x) How a member can be made private ?

PART-B

UNIT - I

2. What is C++ ? Discuss the applications and structure of C++ program. 5

OR

Write a note on principles of OOPs. 5

UNIT - II

3. Explain memory management operators in C++. 5

OR

Discuss the friend and virtual functions by giving appropriate examples. 5

UNIT - III

4. Write short notes :

(i) Making an outside function inline

(ii) Objects as function argument 2.5+2.5

OR

Explain nesting of member functions and and private member functions with giving a C++ program. 5

UNIT - IV

5. What is a constructer ? Why constructer is needed ? Explain parameterized constructors. 5

OR

Write a note on virtual base classes and nesting of classes with example. 5

UNIT - V

6. What is polymorphism ? Give suitable examples. 5

OR

Discuss the virtual functions by giving appropriate C++ program. 5

PART-C

UNIT - I

7. Explain basic concepts of OOPs and benefits of OOPs. 7.5