### C-20-CM/WD-404

## 7437

#### **BOARD DIPLOMA EXAMINATION, (C-20)**

#### JUNE/JULY-2022

#### **DCME - FOURTH SEMESTER EXAMINATION**

OOPS THROUGH C++

*Time* : 3 hours ]

#### PART—A

3×10=30

[ Total Marks : 80

- **Instructions :** (1) Answer **all** questions.
  - (2) Each question carries three marks.
  - (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
  - **1.** Define polymorphism.
  - **2.** List the advantages of OOPs.
  - **3.** What is the purpose of delete operator?
  - **4.** Define class and object with syntax.
  - 5. What is Dynamic constructor?
  - **6.** Define Destructor.
  - 7. What is the necessity Inheritance?
  - **8.** Define Virtual base class.
  - **9.** List the advantages of class Template.
  - **10.** Write about open(), read() and write() functions.

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PART-B

**Instructions :** (1) Answer **all** questions.

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- (2) Each question carries eight marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

**11.** (a) List the differences between C and C++.

#### (OR)

(b) How to create, compile, link and execute a C++ program?

**12.** (a) Explain function overloading with C++ program.

#### (OR)

- (b) Explain the concept of passing objects to function with a simple C++ program.
- **13.** (a) Write a C++ program for Binary Operator (+) overloading with ordinary member function.

#### (OR)

- (b) Explain Constructor Overloading with a C++ program.
- 14. (a) Write a C++ program to implement Multiple Inheritance.

#### (**OR**)

- (b) Explain the rules for virtual functions in C++ and list the applications of virtual functions.
- **15.** (a) Write a C++ program using Class Template for Stack Data structure.

#### (OR)

(b) Explain about Binary I/O Functions like get() and put().

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**Instructions :** (1) Answer the following question.

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- (2) The question carries *ten* marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **16.** Explain the difference when the members in a class is declared as public, private and protected.

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