

Form No. Ex- 8

14 FEB 2015

Sl. No. 234

Particulars about the candidate and the subject are **checked thoroughly** and corrected where necessary.



**CODE - 2105**  
CENTRE CODE : .....

Invigilator

Signature of Officer-in-Charge

**KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY**

**BCA 3<sup>rd</sup> Semester Examination, 2015**

**Object Oriented Programming through C++ [BCA-08]**

**Time : 2 Hrs. Full Marks : 50**

Enrolment Number

Medium of Answer :

**INSTRUCTIONS TO CANDIDATES**

1. This booklet contains.....16.... Pages numbering...15..Please verify number of pages in the booklet before answering.
2. An Examinee is allowed to bring only Admission Card and Identity Card to the Examination Hall. Any Examinee found in possession of loose papers, books etc. is liable to be Expelled.
3. Enrolment No. and Medium of answer must be written legibly at the specified places. Examinee's name and any other identifying mark which reveals examinees identity shall not be written anywhere in the script.
4. For Making calculations, only the last page provided for rough work shall be used.
5. No pages of the script be torn out .
6. Calculators will not be allowed for making calculations in the examination hall. **MOBILE PHONES are strictly prohibited in the examination Centre.**
7. No candidate will be allowed to leave or go out of the hall during the First hour of the Examination.
8. A candidate having completed his/her answer, the script must be handed over, to an invigilator before leaving the hall.
9. Contravention of any of the instructions mentioned above shall render a candidate liable for disciplinary action as per regulations of the University.

**473 (OOP)**

Mandatory  
Examiner's Signature : \_\_\_\_\_  
Examiner's Full Name : \_\_\_\_\_  
Scrutiniser's Signature : \_\_\_\_\_  
Scrutiniser's Full Name : \_\_\_\_\_

Que. No.	Marks
1.	
2.	
3. a	
3. b	
3. c	
3. d	
3. e	
3. f	
4. a	
4. b	
5. a	
5. b	
<b>Total</b>	

Head Examiner's Signature : \_\_\_\_\_



2. Answer any four from the following questions.

2×5 = 10

- (a) Write the general syntax of switch statement.
- (b) Differentiate between while loop and do-while loop.
- (c) Write two properties of a friend function.
- (d) Write the basic concept of overloading.
- (e) Write two characteristics of a static variable.
- (f) When will you make a function inline and why?
- (g) Write the general syntax of a destructor.

3. Answer any four from the following

4×4 = 16 .

- (a) What are the main features of OOP?
- (b) What are the difference between reference variables and normal variables?
- (c) What is scope resolution operator. Explain with example.
- (d) What is union? Differentiate between structure and union.
- (e) Write the characteristics of a constructor.
- (f) Describe virtual functions.

4. Answer any one questions from the following

8×1 = 8

- (a) Write a program in C++ to demonstrate the concept of pure virtual function.
- (b) Write a program in C++ to show the use of read( ) and write( ) functions.

5. Answer any one questions from the following

10×1 = 10

- (a) What are the three ways by which we can pass values to a function? Explain by providing suitable example in support of each.
- (b) Write a program in C++ to demonstrate the concept of constructor overloading.

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