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### PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

## **BCA DEGREE EXAMINATION DECEMBER 2019**

(Second Semester)

#### **Branch - COMPUTER APPLICATIONS**

# PROGRAMMING IN C++/OBJECT ORIENTED PROGRAMMING USING C++

		Maximum 75 Marks
1 ime:	Three Hours  SECTION	Maximum: 75 Marks -A (10 Marks)
Answer ALL questions		
ALL questions carry EQUAL marks (10 x 1 - 10)		
1	Cin and Cout are the members of	
	(i) stdio.h	(ii) fstream.h
	(iii) iostream.h	(iv) conio.h
	endl is a	
	<ul><li>(i) manipulator</li><li>(iii) format specifier</li></ul>	(ii) escape character
		(iv) control character
	A class can have objects.  (i) one	(ii) 2
	(iii) manyO(iv)	(11) 2
		illotted to a class is carried out by .
	(i) constructor	(ii) calloc
	(iii) malloc	(iv) destructor
In the given options which is used to shift left the data.		to shift left the data.
	(i) «	(ii) <
	(iii) »	$(iv)$ $\Leftrightarrow$
	44 4	e properties of more than one parent is
	called as (i) multiple	(ii) hybrid
	(iii) single	(iv) complex
	is example of Dynamic bind	ding.
	(i) class	(ii) operate overloading
	(iii) virtual function	(iv) inline functions
_ is a random file access func		
	(i) rewind()	(ii) fopen()
	(iii) fclose()	(iv) fread()
	The deviation from the normal flo	*
	<ul><li>(i) an exception</li><li>(iii) divide by zero error</li></ul>	(ii) stack overflow (iv) trigger
10	ifstream.h is to be included when	operations are to be carried one.
10	(i) i/o	(ii) input
	(iii) output	(iv) file
SECTION - B (25 Marks)		
Answer ALL questions		

**ALL** questions carry **EQUAL** Marks  $(5 \times 5 = 25)$ 

12 a Discuss array of object with an example.

OR

- b Describe Friend function with an example.
- 13 a Explain virtual base class with an example.

OR

- **b** Write short notes on new and delete operator with an example.
- 14 a Describe array of pointer with an example.

OR

- **b** Explain command line arguments with an example.
- 15 a Write a detail note on'working with function template.

OR

**b** Discuss exception handling function in detail.

#### **SECTION -C (40 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks ( $5 \times 8 == 40$ )

16 a Explain key^concepts of object oriented programming in detail.

OR

- b Discuss on pointers. Explain how pointers are used to access class, arrays and members.
- 17 a Discuss on constructor and destructor in detail.

OR

- **b** Expound on Inline and Friend functions. Explain the functionality of friend function with an example.
- 18 a Describe operator overloading with example.

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- **b** Flow the child class inherits the properties of its base class? In what ways it can inherit the properties of its base class? Analyse.
- 19 a Write a detail note on File Stream Classes.

OR

- b Write a detailed note on virtual functions.
- 20 a Explain about working with string in detail.

OR

**b** Give a detailed notes on the usage of function and class templates.

**7-7-7** 

**END**