**(2005OOP15)**

B.C.A. DEGREE (CBCS) EXAMINATION, APRIL 2016.

(Examination at the end of Second Semester)

Part II

OBJECT ORIENTED PROGRAMMING USING C++

(Regulation 2015–16)

Time : Three hours Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Define Abstract Data Type.
2. What is a Class?
3. What is a constructor?
4. What is static member function?
5. What is meant by operator overloading?
6. Define Inheritance.
7. What is the significance of 'this' pointer?
8. Differentiate between macro and function.

PART B — (5 × 10 = 50 marks)

Answer the following questions.

UNIT I

9. Explain the features of Object-oriented Programming.

Or

10. Explain the data types available in C++.

UNIT II

11. Give the structure of C++ program and explain each section.

Or

12. What do you mean by destructor? Compare the difference between constructor and destructor.

UNIT III

13. Explain overloading the input and output operators in C++.

Or

14. Explain various forms of inheritance with examples.



UNIT IV

15. Define polymorphism and briefly explain about various types of polymorphisms.

Or

16. What is a template? Explain various types of templates in C++.

UNIT V

17. What is a file? Explain different types file i/o functions in C++.

Or

18. What is an exception? Explain how we handle exceptions in C++.

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**(2005MSO15)**

B.C.A. DEGREE (CBCS) EXAMINATION, APRIL 2016.

(Examination at the end of Second Semester)

Part : II

MICROSOFT OFFICE

(Regulation 2015-16)

Time : Three hours Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write about office web apps.
2. What are the most used office applications?
3. How to create and share a document using sky drive app?
4. What is an Email? How to check an Email?
5. How to import images from outside world into PowerPoint?
6. Write about character formatting in word.
7. What are the features of PowerPoint?
8. What is a spreadsheet? Write its applications.

PART B — (5 × 10 = 50 marks)

Answer the following questions.

UNIT I

9. What is an account? How to create a Microsoft Account and how to manage account settings?

Or

10. Explain in detail about Sky Drive and Sky Drive Pro.

UNIT II

11. Write the procedure of uploading a file from your computer and uploading files on the web using App.

Or

12. What are the applications of Email? Write the procedure for creation of Email.

UNIT III

13. What is a template? How many types of templates can be used in MS-Word?

Or

14. What are headers and footers? How to create headers and footers?



UNIT IV

15. What is a slide? Explain the procedure for creation of slides using auto content wizard.

Or

16. Explain in detail about the various views in PowerPoint.

UNIT V

17. What are the parts of a worksheet Excel? Explain.

Or

18. How to create a chart using chart wizard? And explain creation of pie chart using wizard.

16. Calculate coefficient of skewness (Bowley's) for the following distribution

| No. of children per family : | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| No. of families : | 7 | 10 | 16 | 25 | 18 | 11 | 8 |

UNIT V

17. Calculate the coefficient of correlation from the following data

| $x$ : | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|
| $y$ : | 15 | 16 | 14 | 13 | 11 | 12 | 10 | 8 | 9 |

Or

18. Find out Karl Pearson's coefficient of correlation from the following data

| $x$ : | 38 | 35 | 32 | 25 | 48 | 42 | 45 | 52 |
|---|---|---|---|---|---|---|---|---|
| $y$ : | 25 | 28 | 30 | 29 | 26 | 40 | 35 | 22 |

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B.C.A. DEGREE (CBCS) EXAMINATION, APRIL 2016.

(Examination at the end of Second Semester)

Part — II

STATISTICAL METHODS AND THEIR APPLICATIONS

(Regulation 2015-16)

Time : Three hours Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the concept of classification of data.
2. Discuss the concept of frequency curve.
3. Discuss the importance of dispersion,.
4. Explain Ogive curves.
5. What is meant by skewness? Explain the role of skewness in the analysis of data.
6. Explain the concept of standard deviation.
7. Explain the concept of Bowley's coefficient of skewness.
8. Explain the correlation coefficient.

PART B — (5 × 10 = 50 marks)

Answer the following questions.

UNIT I

9. Write a histogram for the following frequency distribution

| | | | | |
|---|---|---|---|---|
| Wages : | 250-259 | 260-269 | 270-279 | 280-289 |
| No. of workers : | 10 | 18 | 27 | 20 |
| Wages : | 290-299 | 300-309 | 310-319 | |
| No. of workers : | 15 | 8 | 2 | |

Or

10. Explain :

(a) Histogram

(b) Frequency polygon

UNIT II

11. Compute median and mode from the following data

| | | | | |
|---|---|---|---|---|
| Age : | 10-15 | 15-20 | 20-25 | 25-30 |
| No. of people : | 22 | 45 | 67 | 73 |
| Age : | 30-35 | 35-40 | 40-45 | 45-50 |
| No. of people : | 85 | 190 | 64 | 55 |

Or



12. Find mean from the following data

| | | | | | | |
|---|---|---|---|---|---|---|
| Marks : | 30 | 40 | 50 | 60 | 70 | 80 |
| Frequency : | 1 | 12 | 15 | 10 | 5 | 2 |

UNIT III

13. Find quartile deviation for the following frequency distribution.

| | | | | | |
|---|---|---|---|---|---|
| $x$ : | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 |
| $f$ : | 11 | 18 | 25 | 28 | 30 |
| $x$ : | 50-60 | 60-70 | 70-80 | 80-90 | |
| $f$ : | 33 | 22 | 15 | 22 | |

Or

14. From the following data find out the standard deviation

| | | | | | | |
|---|---|---|---|---|---|---|
| $x$ : | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 |
| $f$ : | 10 | 12 | 15 | 20 | 14 | 24 |

UNIT IV

15. From the following data calculate Karl Pearson's coefficient skewness.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Marks more than : | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| No. of students : | 150 | 140 | 100 | 80 | 80 | 70 | 30 | 14 | 0 |

Or