## (2005OOP15)

B.C.A. DEGREF (CBCS) EXAMINATION, APRIL 2017.
(Examination at the end of Second Semester)


Answer the following questions.

## UNIT I

## UNI'T' IV

15. Define pure virtual function and specific the need of pure virtual function.

Or
9. Briefly explain about object oriented programming paradigm.

WWW Kvisse rip. Explain briefly about 'call by value' and 'call by - reference' with examples.
10. What are the benefits of object oriented programming?

UNIT II
11. ISriefly explain the significance of Slatic data members.

## Or

12. What is the purpose of inline functions? Explain with examples.

UNIT III
13. What are the ruIes for overloading operators? N. Upiqpoank.com

## Or

14. What is the effect of inheritance on the visibility of members?
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15. What are the benefits off multithreaded programming?
16. What is contiguous memory allocation?
17. Explain different file types.
18. Describe dead lock characterisation.

$$
\text { SECTION B }-(5 \times 10=50 \text { marks })
$$

Answer ALL questions.
13. (a) Discuss deadlocks in terms of system resource allocation graphs.
(b) What is a deadlock? Explain methods for handling deadlocks.
9. (a) Explain briefly about evolution of operating systems.

## Or

(b) List out objectives, functions and services of an operating system.
10. (a) Explain process scheduling in detail.

## Or

(b) What is thread library? Describe actions taken by thread library to context switch between user level threads.
11. (a) Write about contiguous memory allocation.

## Or

(b) How do you structure a page table? Explain.
12. (a) Give an overview of storage structure.

## Or

(b) What is file sharing? Explain how files are shared to various users and systems.
16. Compute lhowley's coefficient of skewness from the following data
No. of days absent: $\begin{array}{lllll}0-5 & 5-10 & 10-15 & 15-20 & \text { B.C.A. DFGREE (CBCS) EXAMINATION, }\end{array}$

| .No. of students: | 4 | 8 | 7 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- |

No. of days absent: $\quad 20-25 \quad 25-30 \quad 30-35 \quad$ (Examination at the end of Second Semester)
No. of students : 11

UNI'T V
17. Find out rank correlation from the following data

| $x$ | 40 | 35 | 20 | 40 | 15 | 50 | 80 | 75 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $y$ | 30 | 20 | 12 | 18 | 30 | 15 | 30 | 10 |
|  |  |  |  |  |  |  |  |  |

Time : Three hours
Maximum : 75 marks

## Or

PART A $-(5 \times 5=25$ marks $)$
18. Calculate 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 | APRIL 2017.

3 WWW.kvisseroup.com
Part II
STATISTICAL METHODS AND THEIR APPLICATIONS
(Regulation 2015-16)

Answer any FIVE questions.

1. Explain the concept of tabulation of data.
2. Explain the concept of preparation of frequency distribution.

WWW.Upiopba 3 . Discuss the merits and demerits of G.M. and H.M.

1. Explain the grouped data and ungrouped data.
2. Explain the concept of skewness.
3. Frequency distribution.
4. What is Correlation? Explain different types o correlation.
5. Explain the concept Spearman's rank correlation.

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\text { PART B }-(5 \times 10=50 \text { marks })
$$

Answer the following questions.

## UNIT III

13. Find out coefficient of variation from the following data

UNIT I
9. Discuss classification of data.

Or

## WWW.kvrsseroup.com

10. What is a frequency polygon how do you draw it for the data?

| 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 |  |

## UNIT II

11. Compute the Arithmetic mean, median and mode from the following data

$$
\text { Marks: } \quad 15.19 \quad 20.24 \quad 25-29 \quad 30-34 \quad 35-39 \quad 40-44 \text { ypicpbank.com }
$$

14. Compute mean deviation from median
$x \quad 0-5050-100 \quad 100-150 \quad 150-200 \quad 200-250 \quad 250-300 \quad 300-350$

| $f$ | 8 | 12 | 20 | 30 | 20 | 12 | 8 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$$
\mathrm{Or}
$$

12. What are the merits, demerits and limitations of Arithmetic mean, median, mode

## UNIT IV

15. Calculate Karl Pearson's coefficient of skewness from the following data
$x \quad 0-20 \quad 20-40 \quad 40-60 \quad 60-80 \quad 80-100 \quad 100-120 \quad 120-140$

| $f$ | 9 | 22 | 10 | 30 | 25 | 8 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

