** PRESIDENCY UNIVERSITY, BENGALURU**

**SCHOOL OF ENGINEERING**

**SUMMER TERM EXAMINATION**

**Extract of Question Distribution [outcome wise & level wise]**

**Date**:

**Time**:

**Max Marks**:

**Weightage**:

**Summer Semester**: AY 2023 - 24

**Course Code**: Statistical Methods and Techniques

**Course Name**: MAT1006

**Program & Sem**: BCA

**Branch & Sem**:

**Date**: **06-08-2024**

**Time**: **01.00pm to 04.00pm**

**Max Marks**:100

**Weightage**:50%

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Q.NO | C.O.NO(%age of CO) | Unit/Module Number/Unit/Module Title | Memory recall type[Marks allotted]Bloom’s Levels | Thought provoking type[Marks allotted]Bloom’s Levels | Problem Solving type[Marks allotted] | Total Marks |
|  | K | C | A |  |
| 1 | C.O.1 | Module-1 | 2 |  |  |  |
| 2 | C.O.1 | Module-1 | 2 |  |  |  |
| 3 | C.O.2 | Module-2 | 2 |  |  |  |
| 4 | C.O.3 | Module-3 | 2 |  |  |  |
| 5 | C.O.4 | Module-4 | 2 |  |  |  |
| 6 | C.O.5 | Module-5 | 2 |  |  |  |
| 7 | C.O.5 | Module-5 | 2 |  |  |  |
| 8 | C.O.1 | Module-1 |  | 10 |  |  |
| 9 | C.O.1 | Module-1 |  | 10 |  |  |
| 10 | C.O.2 | Module-2 |  | 10 |  |  |
| 11 | C.O.3 | Module-3 |  | 10 |  |  |
| 12 | C.O.3 | Module-3 |  | 10 |  |  |
| 13 | C.O.4 | Module-4 |  | 10 |  |  |
| 14 | C.O.5 | Module-5 |  | 10 |  |  |
| 15 | C.O.2 | Module-2 |  | 20 |  |  |
| 16 | C.O.4 | Module-4 |  | 20 |  |  |
| 17 | C.O.5 | Module-5 |  | 20 |  |  |
|  | Total Marks |  | 14 | 130 |  |  |

K =Knowledge Level C = Comprehension Level, A = Application Level

Note: While setting all types of questions the general guideline is that about 60%

Of the questions must be such that even a below average students must be able to attempt, About **20% of the questions must be such that above average students** must be able to attempt and finally **20% of the questions must be such that only the bright students** must be able to attempt.

I hereby certify that all the questions are set as per the above guidelines.

**[Name of faculty]**

Reviewer’s Comments:

**Annexure- II: Format of Answer Scheme**

 ** PRESIDENCY UNIVERSITY, BENGALURU**

**SCHOOL OF ENGINEERING**

**SUMMER TERM EXAMINATION**

 **SOLUTION**

**Date**: **06-08-2024**

**Time**: **01.00pm to 04.00pm**

**Max Marks**:100

**Weightage**:50%

**Summer Semester**: AY 2023 - 24

**Course Code**: Statistical Methods and Techniques

**Course Name**: MAT1006

**Program & Sem**: BCA

**Branch & Sem**:

**Date**:

**Time**:

**Max Marks**:

**Weightage**:

 **Part A** (5Q x 2M = 10Marks)

|  |  |  |  |
| --- | --- | --- | --- |
| Q No | **Solution** | **Scheme of Marking** | **Max. Time required for each Question** |
| 1 | * Statistics may be called the science of counting -Bowley A. L.
* Statistics is the science of the measurement of social organism, regarded as a whole in all its manifestations -Bowley A. L.
 | **1M****1M** | **2min** |
| 2 | 1. Statistics does not study individuals.2. Statistical laws are not exact.3. Statistics is liable to be misused.4. Statistics does not study qualitative phenomenon.  | **2 M** | **2min** |
| 3 | FORMULAMean=17.2 | **1M****1M** | **2 min** |
| 4 |  | **2M** | **2 min** |
| 5 |  | **2M** | **2 min** |
| 6 |  | **2M** | **2 min** |
| 7 |  | **2M** | **2 min** |

**Part B**(5Q x 10M = 50Marks)

|  |  |  |  |
| --- | --- | --- | --- |
| Q No | **Solution** | **Scheme of Marking** | **Max. Time required for each Question** |
| 8 | C:\Users\JDJD\Downloads\Untitled.png | 10M | 15 min |
| 9 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Weekly wages**  | **No. of workers**  | **C.F. (Less than)**  | **C.F. (More than)**  |
| 0-20  | 4 | 4 | 18 (total)  |
| 20-40 | 6 | 9 (4 + 5)  | 14 (18 - 4)  |
| 40-60 | 5 | 15 (9 + 6)  | 9 (14 - 5)  |
| 60-80 | 3 | 18 (15 + 3)  | 3 (9 - 6)  |

  | 4 M6M | 20 min |
| 10 |  | 1M1M3M2M3M | 20 min |
| 11 |  | 4M4M2M | 20 M |
| 12 |  | 4M4M2M | 20 min |
| 13 | **Table** | 4 M6M | 20 min |
| 14 |  | 1M3M3M3M | 20 min |

**Part C** (2Q x20 M = 40Marks)

|  |  |  |  |
| --- | --- | --- | --- |
| Q No | **Solution** | **Scheme of Marking** | **Max. Time required for each Question** |
| **15** | Mean & SD formula | 4M2M5M2M5M2M | 35 min |
| **16** |  | 5M3M3M3M3M3M | 35 min |
| **17** |  | 5M3M3M3M3M3M | 35 min |