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| C:\Users\staff\Desktop\LOGO.jpg | GIET MAIN CAMPUS AUTONOMOUS GUNUPUR – 765022 |
| B. Tech Degree Examinations, Dec. – 2020  (Fourth Semester)  Sub. Code **BBTPC4020**– Sub. Name **Biostatistics**  (Branch Name / Common to branches) |
| **Time: 3 hrs Maximum; 70 Marks** | |

**Answer KEY to Questions SET -I**

**The figures in the right hand margin indicate marks.**

**PART – A: (Multiple Choice Questions) (1x 10=10 Marks)**

|  |  |
| --- | --- |
| Q.1 Answer ***ALL*** questions | |
| **Q.1** | **Answers** |
| a. | Means |
| b. | A number |
| c. | between 0 and infinity |
| d. | Greater than 0.05 |
| e. | Increase |
| f. | ANOVA |
| g. | 5/7 |
| h. | Sample statistic |
| i. | The time it takes a randomly selected student to complete an exam |
| j. | The null hypothesis is true |

**PART – B: (Short Answer Questions) (2 x 10=20 Marks)**

|  |  |
| --- | --- |
| Q.2 Answer ***ALL*** questions | |
| **Q.2** | **Answers** |
| a. | For correct definition and example |
| b. | For correct definition |
| c. | For correct calculation and answer i.e. 1/36 |
| d. | For correct calculation and answer |
| e. | For correct definition and description |
| f. | For correct definition and explanation |
| g. | For correct definition and example |
| h. | For correct definition and example |
| i. | For correct definition and example |
| j. | For correct definition and example |

**PART – C: (Long Answer Questions) (10 x 4 = 40 Marks)**

|  |  |
| --- | --- |
| **MARK DISTRIBUTION (n.b. it may change according to the examiner)** | |
| **FOR 05 MARKS QUESTIONS** | **FOR 05 MARKS QUESTIONS** |
| Definition - 1 marks  Description/types - 1 marks  Calculation/ theory - 1 marks  Conclusion / example - 1 marks  Adv/ Dis adv/application – 1 marks | Definition - 1 marks  Description/types - 1 marks  Calculation/ theory - 1 marks  Conclusion / example - 1 marks  Adv/ Dis adv/application – 1 marks |

**Answer KEY to Questions SET -II**

**The figures in the right hand margin indicate marks.**

**PART – A: (Multiple Choice Questions) (2x10=10 Marks)**

|  |  |
| --- | --- |
| **Q.1 Answer *ALL* questions** | |
| Q.1 | **Answers** |
| a. | Standard deviation |
| b. | Error |
| c. | is relatively small compared to the average treatment deviations |
| d. | Describe those groups that have reliable differences between group means |
| e. | SSE |
| f. | a parametric test/ a test for comparing averages |
| g. | 3/4 |
| h. | A binomial experiment |
| i. | 32 |
| j. | The null hypothesis is rejected when the null hypothesis is true |

**PART – B: (Short Answer Questions) (2 x10=20 Marks)**

|  |  |
| --- | --- |
| **Q.2 Answer *ALL* questions** | |
| **Q.2** | **Answers** |
| **a.** | For correct definition and example |
| **b.** | For correct definition and example |
| **c.** | For correct calculation and answer i.e. 1/7 |
| **d.** | Description of paired data |
| **e.** | For correct definition and description |
| **f.** | For correct definition and explanation |
| **g.** | For correct definition and example |
| **h.** | For correct definition and example |
| **i.** | For correct definition and example |
| **j.** | For correct definition and example |

**PART – C: (Long Answer Questions) (10x 4 = 40 Marks)**

|  |  |
| --- | --- |
| **MARK DISTRIBUTION (n.b. it may change according to the examiner)** | |
| **FOR 05 MARKS QUESTIONS** | **FOR 05 MARKS QUESTIONS** |
| Definition - 1 marks  Description/types - 1 marks  Calculation/ theory - 1 marks  Conclusion / example - 1 marks  Adv/ Dis adv/application – 1 marks | Definition - 1 marks  Description/types - 1 marks  Calculation/ theory - 1 marks  Conclusion / example - 1 marks  Adv/ Dis adv/application – 1 marks |