

Royal College of Arts, Science and Commerce

F.Y.B.Sc Computer Science

Semester II 2020-2021

Statistical Methods and Testing of Hypothesis

(Course code: - USCS206)

Sample Questions

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| Q1 | The _____ is a non-parametric alternative to the t test for related samples. |
| a) | Kruskal-Wallis test |
| b) | Wilcoxon test |
| c) | Friedman Test |
| d) | Mann-Whitney U Test |
| Q2 | If E denotes the expectation the variance of a random variable X is denoted as? |
| a) | $(E(X))^2$ |
| b) | $E(X^2)-(E(X))^2$ |
| c) | $E(X^2)$ |
| d) | $2E(X)$ |
| Q3 | What symbol represents the test statistic for the Mann–Whitney test? |
| a) | Ws |
| b) | T |
| c) | U |
| d) | H |
| Q4 | The probability of Type 1 error is referred as? |
| a) | $1-\alpha$ |
| b) | β |
| c) | α |
| d) | $1-\beta$ |
| Q5 | Type 1 error occurs when? |
| a) | We reject H_0 if it is True |
| b) | We reject H_0 if it is False |
| c) | We accept H_0 if it is True |

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| d) | d) We accept H0 if it is False |
| | |
| Q6 | If the Critical region is evenly distributed then the test is referred as? |
| a) | Two tailed |
| b) | One tailed |
| c) | c) Three tailed |
| d) | d) Zero tailed |
| | |
| Q7 | If null hypothesis is true and if it is rejected thenerror is committed. |
| a) | Type I error |
| b) | Type II error |
| c) | Not Type I error |
| d) | Not Type II error |
| | |
| Q8 | A statement about population developed for the purpose of testing is called _____. |
| a) | Hypothesis |
| b) | Null Hypothesis |
| c) | Level of significance |
| d) | Test-statistics |
| | |
| Q9 | Binomial distribution has _____ parameters. |
| a) | 0 |
| b) | 2 |
| c) | 1 |
| d) | 3 |
| | |
| Q10 | If 'p', 'q' and 'n' are probability pf success, failure and number of trials respectively in a Binomial Distribution, what is its Standard Deviation? |
| a) | \sqrt{np} |
| b) | \sqrt{pq} |
| c) | c) $(np)^2$ |
| d) | \sqrt{npq} |
| | |