**TABLE OF SPECIFICATION FOR THE QUARTERLY EXAMINATION IN STATISTICS AND PROBABILITY**

MIDTERM, SECOND SEMESTER

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MOST ESSENTIAL LEARNING COMPETENCIES** | **No. of days based on LC Codes** | **%** | **No. of Items** | **Lower-order Thinking Skills**  60% | | **Moderate-order Thinking Skills**  20% | | **Higher-order Thinking Skills**  20% | |
| Rem | Und | App | Ana | Eval | Cre |
| Item Placement | | | | | |
| illustrates a random variable (discrete and continuous). | 1 | 2.5 | 1 | 1 |  |  |  |  |  |
| distinguishes between a discrete and a continuous random variable. | 1 | 2.5 | 1 |  | 2 |  |  |  |  |
| finds the possible values of a random variable. | 1 | 2.5 | 1 |  |  | 3 |  |  |  |
| illustrates a probability distribution for a discrete random variable and its properties. | 1 | 2.5 | 1 |  | 4 |  |  |  |  |
| computes probabilities corresponding to a given random variable. | 1 | 2.5 | 1 |  | 5 |  |  |  |  |
| illustrates the mean and variance of a discrete random variable. | 1 | 2.5 | 2 | 6 |  | 7 |  |  |  |
| calculates the mean and the variance of a discrete random variable | 2 | 5 | 2 |  |  | 8,9 |  |  |  |
| interprets the mean and the variance of a discrete random variable. | 1 | 2.5 | 1 |  |  |  |  |  | 10 |
| solves problems involving mean and variance of probability distributions. | 2 | 5 | 3 | 11 | 12 |  |  |  | 13 |
| illustrates a normal random variable and its characteristics. | 1 | 2.5 | 1 | 14 |  |  |  |  |  |
| identifies regions under the normal curve corresponding to different standard normal values. | 1 | 2.5 | 1 | 15 |  |  |  |  |  |
| converts a normal random variable to a standard normal variable and vice versa. | 1 | 2.5 | 1 |  |  |  | 16 |  |  |
| computes probabilities and percentiles using the standard normal table | 2 | 5 | 3 |  | 17 |  |  | 18 | 19 |
| illustrates random sampling. | 1 | 2.5 | 1 | 20 |  |  |  |  |  |
| distinguishes between parameter and statistic. | 1 | 2.5 | 1 |  | 21 |  |  |  |  |
| identifies sampling distributions of statistics (sample mean). | 2 | 5 | 3 | 22 | 23 |  | 24 |  |  |
| finds the mean and variance of the sampling distribution of the sample mean. | 2 | 5 | 3 |  | 25, 26 |  | 27 |  |  |
| defines the sampling distribution of the sample mean for normal population when the variance is: (a) known; (b) unknown. | 2 | 5 | 3 | 28 | 29 |  | 30 |  |  |
| illustrates the Central Limit Theorem. | 2 | 5 | 3 | 31 | 32 | 33 |  |  |  |
| defines the sampling distribution of the sample mean using the Central Limit Theorem. | 3 | 7.5 | 3 | 34, 35 | 36 |  |  |  |  |
| solves problems involving sampling distributions of the sample mean. | 3 | 7.5 | 3 |  |  |  | 37 | 38 | 39 |
| illustrates the t-distribution. | 2 | 5 | 3 | 40 | 41, 42 |  |  |  |  |
| identifies percentiles using the t-table. | 2 | 5 | 3 | 43,44 | 45 |  |  |  |  |
| identifies the length of a confidence interval. | 0.5 | 1.25 | 1 | 46 |  |  |  |  |  |
| computes for the length of the confidence interval. | 0.75 | 1.875 | 1 |  |  |  |  | 47 |  |
| computes for an appropriate sample size using the length of the interval. | 0.75 | 1.875 | 1 |  |  |  |  | 48 |  |
| solves problems involving sample size determination. | 2 | 5 | 2 |  |  |  |  | 49 | 50 |
| Total | 40 | 100% | 50 | 15 | 15 | 5 | 5 | 5 | 5 |

Prepared by: Checked by:

SANDDY H. MADERA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Special Science T-I, Subject Teacher EPS