

Assignment for the examinees of HSC 2022

Subject: Statistics

Paper: Second

Subject Code: 130

Level: HSC

Assignment No.	Assignment	Learning outcomes/Contents	Instructions (Signal/Step/Edge)	Instruction of evaluation/Rubrics					
02 (First Chapter: Probability)	Teacher said that In a random experiment two events A and B where, $P(A) = \frac{1}{3}$, $P(B) = \frac{3}{4}$ and $P(A \cup B) = \frac{5}{6}$ Analyze the concept of probability theory with the help of the above information.	<ul style="list-style-type: none"> Be able to describe various topics related to possibilities with examples. Be able to explain the concept of probability. 	<ul style="list-style-type: none"> Random Experiment, Sample Space, Different types of Event Mutually Exclusive Events and Non mutually Exclusive Events. Whether the two events are independent (based on the information provided) Determining the values of $P(\bar{A}/B)$ and $P(A/\bar{B})$. 	Indicator	Ability level/Number				Score
					4	3	2	1	
				Random Experiment, Sample Space, Sure Event, Impossible Event, Uncertain Event	Presented 6 definition appropriately	Presented 4 definition appropriately	Presented 3 definition appropriately	Presented 2 definition appropriately.	
				Mutually Exclusive Events and Non-mutually Exclusive Events.	Described two events with example appropriately	In most cases, the descriptions are doing exactly.	Described one events with example appropriately	The descriptions are not accurate.	
				With the information given, check whether the two events are independent	Presented correctly while maintaining consistency	In most cases, presented correctly while maintaining consistency	In partial cases, presented correctly while maintaining consistency	Presentation is not accurate.	

				Determine the value of $P(\bar{A}/B)$ and $P(A/\bar{B})$. Using the provided information.	2 values have been accurately determined	Accurately determined the value using data obtained in most cases.	1 values has been accurately determined	Value determination is not appropriate.	
				Total					
				Number allotted for assignment:16 N.B. Appropriate (80%-100%), Generality (60%-79%), Incomplete (50%-59%), Not appropriate (Below 50%)					

Number Range	Comment
13-16	Excellent
11-12	Very good
08-10	Good
00-07	Required Improvement