

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2020/2021

SCHOOL OF BUSINESS AND ECONOMICS

BACHELOR'S OF SCIENCE ECONOMICS

BACHELOR'S OF SCIENCE FINANCIAL

ECONOMICS AND BACHELOR'S OF SCIENCE

ECONOMICS AND STATISTICS

FIRST YEAR SECOND SEMESTER

COURSE CODE: ECO 1207-1

COURSE TITLE: COMPUTER APPLICATIONS AND

DATA ANALYSIS I.

DATE: 12/10/2021 TIME: 8:30 am – 10:30 am

INSTRUCTIONS:

Attempt Question one and any other Two Questions

Question One

- a. Give the appropriate graphical technique that should be used to present each of the following variables. (5 marks)
 - i) Marital status
 - ii) Job rank
 - iii) Body Temperature of employees
 - iv) Age of students
 - v) Gender of students
- b. State what should be done by the designer of an XLSForm so that the form could do the following;
 - i. Capture the time and data when a participant filled the form. (1 mark)
 - ii. Record the GPS coordinate of the location when the data was collected. (1 mark)
 - iii. Automatically compute the profit based on given sales data. (1 mark)
 - iv. Allow the respondent to upload a passport photo. (1 mark)
 - v. Allow only married individuals to fill a section of the form. (1 mark)
 - vi. Make some of the questions compulsory in the form. (1 mark)
- c. The extract below shows an excel extract use it to answer the questions that follows.

	А	В	С	D	E	F	G	Н	
1	Product	Price	Number of Products Sold	Cost Per unit of Product Produced	Fixed Cost	Variable Cost	Total Cost	Revenue	Profit
2	A	50	1136	30	1000				
3	В	40	7930	18	1200				
4	С	56	6204	32	1100				
5	D	47	8329	25	1400				
5	TOTAL								
7									

i) Write a cell referencing function to compute the values of the following cells

(4 marks)

- a) F2
- b) G4
- c) H5
- d) I3
- d. A computer is defined as a system that converts data into information, with the aid of a well labeled diagram describe how this happens. (5 marks)

Question Two

	a.	A data set contains Five variables (Gender, Age, Weight, Religion and Marital_status). The variables Gender, Religion and Marital status were coded as follows: Gender (1 =							
		Male, 2=Female), Religion (1 = Christian, 2= Muslim, 3 = Catholic, 4 = Other religions), Marital_status (1=Single, 2 = Married, 3 = Widowed, 4 = Separated). Write down SPSS							
			nat will do the follow;						
		i.	Select Males who are Catholic and weigh below 75 Kg.	(2 marks)					
		ii.	Select Divorced Muslims who are aged above 40 years.	(2 marks)					
		iii.	Filter out Married Female Catholic.	(2 marks)					
		iv.	Filter out Single Female youths (A youth is a person between $18 - 35$ y	ears).					
				(2 marks)					
		v.	A 30-year-old single lady is seeking for a Non-Muslim Gentle man wh	o is three					
			years older than her. Kindly write a code to assist her with this for the given data						
			set.	(2 marks)					
	b.	Give tl	he technological advancements that has taken place during the evolution	of					
		compu	iters through generations.	(5 marks)					
Qι	ıesti	ion Thr	ree						
a.	Re	low is a	in extract of a survey questionnaire use it to answer the questions that fo	llows					
и.		a) Kindly fill in the following details about yourself							
	1.								
	3.	_	[] Married [] Divorced [] Widowed [] Separated [] st level of education						
		•	nooling [] Primary [] Secondary [] Middle level college []						
		Bachel	lor's degree [] Masters [] PhD []						
	4.	Phone	number:						
	5.	HIV/A	IDs Status						
		Positiv	ve[] Negative[] Unknown[]						
	i.		e the SPSS data type of each of the variables in the above questionnaire.						
	ii.	Desi	ign a survey worksheet of an XLSForm for the above questionnaire extr						
		_		(5 marks)					
	iii.	_	lain one violation that has been committed by the author of the question						
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b.	Ġí	ve three	functions of the operating system.	(3 marks)					

Question Four

- a. Riziki Holding Limited has several branches all over the country which are required to submit daily sales data to the headquarters for proper monitoring and evaluation of the performance of each branch. In order to do this, the company has hired you as a consultant to design an online form that will enable the branches to submit the daily data in a single server. The form is supposed to capture the branch number which starts with a leading zero, name of the manager, the date and time of submission, the number of each of their three products A, B and C sold in that day. Apart from that, the form is supposed to calculate the daily revenue of each product and the total revenue of branch. The revenue of each product is given by number sold times the price (A=Kshs 400, B= Kshs 510 and C=Kshs 650), while the total revenue is given by the sum of all the three revenues. Design the survey worksheet of an XLSform for the above form. (10 marks)
- **b.** With the aid of a well labeled diagram, describe the computer anatomy. (5 marks)