ODD MIDTERM EXAM
ACADEMIC YEAR 2020/2021

Course Name   : Official Statistics II
Study Program/Class : Statistics/a,b,c,d
Day/Date   : Friday/November 6, 2020
Duration   : 100 Minutes
Lecture   : Sekti Kartika Dini, S.Si., M.Si.
Sifat Ujian   : Open Sheet Double Folio (collected together with answer sheet in a separate file), Calculator, Distribution Table
Online Media Used : Google Classroom

Read Basmalah

Instructions for working on questions:
1. Complete the following questions independently, briefly, clearly, and responsibly
2. The answer to the question is typed in font and free space
3. The answer file is submitted in PDF format with the file name NIIM_Name

LO : **PP(a)-Science**
Students understand various census and survey activities, especially activities on official economic statistics so that students understand the methodology, outputs and outcomes of these activities, and can perform analysis using statistical methods descriptive and inferential.

1 [Score 40]
CO: PPa1: Students are able to understand the methodology, methods and processes of data collection and who are the respondents
Indicator: Students are able to explain the methodology, methods and processes of data collection and who the respondents are on official statistics in the economic field
Question
Data is given in Table 1 below:

Education Level	2012		2013		2014		2015		2016	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Up to Elementary School	66172	4359	56416	4034	52603	3767	49264	3598	40851	3094
Junior High School/Equaivalent	95419	12929	81762	10864	77429	10826	72656	10519	64193	9480
Senior High School/ Equaivalent	793535	581316	727043	515002	711030	491915	709131	475756	648850	428277
Diploma I, II/Deed I, II	253127	424865	221277	364538	191015	312062	175138	274464	150539	227766
Diploma III/Deed III/Bchelor	163519	259780	154033	258702	156871	270679	154185	273508	140028	260825
Graduate Level/Doctoral/Ph.D	960777	852184	1020077	949057	1099683	1077423	1175287	1184919	1173032	1227414
Total	**2332549**	**2135433**	**2260608**	**2102197**	**2288631**	**2166672**	**2335661**	**2222764**	**2217493**	**2156856**

Table 1. Number of State Civil Apparatus by education level and gender

source: Publication of Central Bureau of Statistics : www.bps.go.id

Based on **Table 1**, determine

a. What variables are contained in the data?   **(Score 10)**

b. according to the time of collection, what category does the data fall into?   **(Score 10)**

c. according to the measurement scale, the level of education is a scalable data? **(Score 10)**

d. according to the measurement scale, gender is a scalable data?   **(Score 10)**

2 [Score 20]

CO:

PPa3: Students are able to calculate distribution statistical indicators

Indicator:

Students are able to calculate price index, inflation, index related to distribution statistics

Question

Table 2. Price of Goods in 2017-2018

Type of Goods	Price in 2017 (Rp)	Price in 2018 (Rp)
Sugar	10.500	11.000
Flour	9.500	10.000
Butter	7.000	8.250
Eggs	12.000	14.000

Based on the data in **Table 2,** determine the value of the simple aggregate price index

3 [Score 40]

CO:

PPa3: Students are able to calculate distribution statistical indicators

Indicator:

Students are able to calculate price index, inflation, index related to distribution statistics

Question

Table 3. Price of Goods in 2016-2017

Type of Goods	Price (Rp)		Quantity in 2016	Quantity in 2017
	2016	2017		
Rice	15.000	15.500	100	120
Corn	11.000	12.500	60	55
Green Beans	8.000	9.750	65	75
Cassava	5.000	6.350	38	45

Based on the data in **Table 3**, determine::
a. Value of the Lespeyres price weighted index   (Score 10)
b. Paasche price-weighted index value   (Score 10)
c. Fisher index value   (Score 10)
d. Drobish index value   (Score 10)

Congratulations on your work, may you be blessed, & be given the best results

The verification of Midterm Exam, Odd Academic Year 2020/2021				
The suitability of the problems with CO	**The Completeness of the problems information**	**Verifier**	**Verification date**	**Sign**
Suitable/~~Less suitable~~/ ~~Not Suitable~~	Complete/~~Less Complete~~/~~Not Complete~~	Science cluster coordinator	5-Nov-2020	