



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja, FCT**  
**Faculty of Health Sciences**  
**Department of Nursing Sciences**  
**2024 1 EXAMINATION**

**Programme: Bachelor of Nursing Science**

**Course Code: NSC403**

**Course Title: Leadership and Management in Nursing**

**Course Credit Units: 2 Units**

**Time Allowed: 2 Hours**

**Total Score: 70 Marks**

**Instruction: Answer All the Questions**

1.
  - a) Identify six (6) factors affecting the health of any community (3 marks)
  - b) State five (5) Principles of PHC (5 marks)
  - d) List ten (10) targets of PHC services (5 Marks)
  - e) List five (5) types of traditional healers (5 marks)
  - f) Discuss the roles/activities of traditional healers and medicine men (12 marks)
  
2.
  - a) Define the word management (1 Mark)
  - b) Enumerate four (4) purposes of management (4 Marks)
  - c) Describe five (5) functions of management (10 Marks)
  - d) Explain how a manager could use both the art and science of management for effective running of his establishment. (5 Marks)
  
- 3a) Write short note on the following:
  - a) Quality assurance
  - b) Nursing audit
  - c) Motivation
  - d) NHIS

**(5 Marks each)**

Null Hypothesis: D(OIP) has a unit root  
 Exogenous: Constant, Linear Trend  
 Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	I-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.502037	0.0006
Test critical values:		
1% level	-4.323979	
5% level	-3.580623	
10% level	-3.225334	

\*MacKinnon (1996) one-sided p-values.

### Question 3

- In econometric modelling, what is coefficient of determination used for? **5marks**
- Differentiate clearly  $r^2$  and  $R^2$  as coefficient of determination. **2marks**
- Provide interpretation where  $R^2$  is 0.75 and 0.55 **5marks**
- State reasons for the interpretation of Adjusted R square in a model. **5.5marks**

### Question 4

- In general, there are two types of dynamic models. Differentiate between the two. **5marks**
- What are the possible methods that can be employed in estimating cases of exact identification and over identification in a simultaneous equation problem? **4marks**
- State the procedure of estimating the case of exact identification in simultaneous equation and state reasons why the method is not a commonly used estimator. **8.5marks**

### Question 5

- Discuss the steps in conducting Augmented Dickey-Fuller Unit Root test using Eviews Econometrics software. **10.5marks**
- As an econometrician, provide advice on the estimation technique needed when all the variables are not cointegrated. **2marks**

c)

Date: 06/14/23 Time: 05:42  
 Sample (adjusted): 1992 2019  
 Included observations: 28 after adjustments  
 Trend assumption: Linear deterministic trend  
 Series: LNTFD LNOIP LNPCI INR  
 Lags interval (in first differences): 1 to 1

#### Unrestricted Cointegration Rank Test (Trace)

Hypothesized No. of CE(s)	Eigenvalue	Trace Statistic	0.05 Critical Value	Prob.**
None *	0.517217	58.48243	47.85613	0.0037
At most 1 *	0.480079	38.07316	29.79707	0.0045
At most 2 *	0.416204	19.75898	15.49471	0.0107
At most 3 *	0.154201	4.689261	3.841466	0.0303

Trace test indicates 4 cointegrating eqn(s) at the 0.05 level

\* denotes rejection of the hypothesis at the 0.05 level

\*\*MacKinnon-Haug-Michelis (1999) p-values

- Interpret the result above. **2marks**
- Provide in detail the step of action using Eviews. **3marks**