



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi – Abuja**  
**FACULTY OF HEALTH SCIENCES**  
**2023\_2 EXAMINATIONS\_**

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**Course Code: EHS 318**  
**Course Title: Introduction to Water Resources Management**  
**Course Unit: 2 Credit Units**  
**Time Allowed: 1 ½ Hours**  
**Total Score: 70 Marks**

**ANSWER ALL**

- Q1 (a) Discuss what you understand about water emergency, its associated impact and the barriers to tackle the problem in a named developing country **20 marks**  
(b) List five (5) factors that is responsible for water emergency **5 marks**  
(c) What is economic water scarcity? **5 marks**
- Q2 (a) Briefly explain the concept of Water politics **5 marks**  
(b) List seven (7) Socio-Political Causes of Water Scarcity **7 marks**  
(c) Give a detailed account of water security **5 marks**  
(d) Highlight six threat to water security **3 marks**
- Q3 (a) What is water catchment area? List the three (3) protective zones of water catchment area **8 marks**  
(b) Highlight five (5) Importance of Drainage Basin **5 marks**  
(c) Discuss Environmental water quality **5 marks**  
(d) Define Bio-survey in relation to water quality **2 marks**

Mathematics	15	18	27
Biology	17	35	38
<b>Total</b>	<b>210</b>	<b>175</b>	<b>229</b>

Draw (i) Multiple bar chart department by department for the three years. **(8 marks)**

(ii) A component bar chart. **(8 marks)**

iii) Differentiate between a bar chart and a histogram. **(4 marks maximum)**

4. i) Differentiate between a population and a sample. **(4 marks maximum)**

ii) The quantities of rice (x) and beans (y) purchased by a group of friends for annually celebration is tabulated below:

Year	1981	1982	1983	1984	1985	1986	1987
Rice (x)	118	112	101	98	94	91	62
Bean (y)	76	57	58	80	70	43	53

Estimate the regression coefficient **(6 marks)**