

**COMMAND SCIENCE SECONDARY SCHOOL,
LAFIA, NASARAWA STATE
TAKE HOME ASSIGNMENT FOR SS1**

ENGLISH LANGUAGE

Write an essay on the negative impacts of 'Social Media' on Nigeria students in not less than 450 words. (Show the outline)

CHEMISTRY

Answer All Questions

1. List the allotropes of carbon
- b. Explain Amorphous Carbon and list four amorphous carbon
2. What are cracking and reforming
- b. Briefly explain the steps involve in treatment of water before distributing to towns and cities

General Maths

ANSWER ALL QUESTIONS.

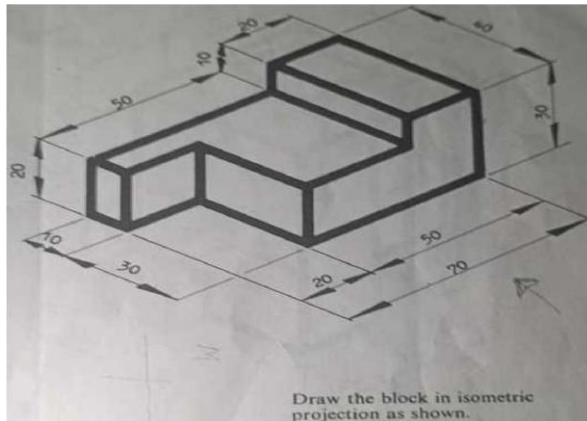
1. The cost of making a dress is partly constant and partly varies with the amount of time it takes to make the dress. If the dress takes 3 hours to make, it costs N2700. If it takes 5 hours to make the dress, it costs N3100. Fine the cost if it take $1\frac{1}{2}$ hours to make the dress

ECONOMICS

- (1) Define Elasticity of Demand
- (2) Explain price elasticity of demand,
- (3) Explain income elasticity of demand,
- (4) Draw curves showing unitary elasticity and Zero elasticity of demand.

TECHNICAL DRAW

Draw in Isometric and Oblique projection using scale 1:1



AGRICULTURAL SCIENCE

- 1a) With the Aid of a labelled diagram, Show Soil profile and its Horizons
- 1b) Explain the characteristics of each Horizon
- 2a) Mention and explain two importance of the following to agricultural production Soil air, Soil organisms, Humus content, Soil-water.
- 3a) Draw and label the following pests of crops, Grasshopper, caterpillar
- 3b) what are their economic importance
- 3c) Explain four major factors of agricultural production you know

PHYSICS

1. State Hook's law
2. Using the table below, answer the questions that follows

S/N	L(cm)	t ₁ (s)	t ₂ (S)	$T = \frac{t_1+t_2}{2}$ (s)	T ² (s ²)
1	10	10.5	10.0		
2	20	12.2	12.5		
3	30	14.3	14.0		
4	40	15.9	16.0		
5	50	19.0	19.1		

- i. Copy and complete the table
 - ii. Plot a graph of L(cm) against T²(s²)
 - iii. Calculate and define the slope of the graph
3. State newton's law of universal gravitation

CIVIC EDUCATION

1. Vividly explain the relationship between NAFDAC and NDLEA as an Agencies that helps in reducing the rate of drug abuse in Nigeria
2. Itemize five ways by which citizens exercise their popular participation
3. Highlight five importance of popular participation

BIOLOGY

1. Define Conservation
2. Enumerate five (5) economic importance of tape-worm
3. Explain the following
 - i. Pest
 - ii. Disease
4. In a tabular form state five (5) name of disease, causative agent and symptoms of animals
5. Distinguish between sexual reproduction and asexual reproduction

GEOGRAPHY

Draw a map of Nigeria, on the map show

1. All 36 states
2. River Niger and Benue
3. The countries surrounding Nigeria

DGTAL TECHNOLOGY

1. Define Data Modelling
2. Explain the different approaches to data modelling

F/MATHS Take Home Assignment

① Two points are given by $A(-5, 2)$ and $B(-1, 7)$. Calculate the:

- i) length of line AB
- ii) gradient of line AB
- iii) mid-point of line AB

② Given that $f(x) = 2x + 6$ and $g(x) = 3x - 5$. Find:

- i) $f \circ g(x)$
- ii) $g \circ f(x)$
- iii) $f^{-1}(-2)$
- iv) $g^{-1}(-1)$
- v) $f \circ g(2)$

③ Given that $\cos \theta = \frac{4}{5}$, find the values of:

- i) $\sec \theta$
- ii) $\cot \theta$
- iii) $\operatorname{cosec} \theta$
- iv) $\sin \theta \cos \theta$
- v) $1 - \tan^2 \theta$

④ Use tables and find the values of:

- i) $\cos 218.64^\circ$
- ii) $\sin 192.18^\circ$
- iii) $\tan 342.28^\circ$
- iv) $\tan(-105.2^\circ)$