



NIGER DELTA UNIVERSITY

WILBERFORCE ISLAND, BAYELSA STATE

2014/2015 POST UTME SCREENING EXERCISE

Date: Saturday, August 9, 2014

Time: 1 hour 30 mins

Question Paper for Faculties of Science, Agriculture, Basic Medical Science, Medical Laboratory Science Pharmacy, Nursing and Education Science

Biology

1. All living organisms A. photosynthesize B. respire C. move D. feed E. transpire
2. The complex relationship between the members of a community and between the community as a whole and its physical environment is A. ecosystem B. habitat C. environment D. niche E. microhabitat
3. The movement of molecules from a region of higher concentration to one of lower concentration is A. diffusion B. transpiration C. osmosis D. translocation E. plasmolysis
4. Which of these is not an enzyme? A. Pepsin B. Gastrin C. Amylase D. Chymotrypsin E. Trypsin
5. Some of the features of an animal are scales, teeth, nares and backbones. The animal is likely to be a A. toad B. bird C. lizard D. rat E. bat
6. The joint between the atlas and axis vertebrate allows for A. rotary movements only B. up and down and nodding movement only C. rotatory and nodding movements D. no movement at all E. slight movement
7. The conversion of excess amino acids into urea occurs in the A. kidney B. pancreas C. villi D. liver E. spleen
8. Which of the following hormones is produced during fright or when agitated? A. Insulin B. Adrenalin C. Thyroxin D. Pituitary E. Progesterone
9. Which part of the human brain is concerned with reflexes controlling the rate of heart beat and breathing? A. Medulla B. Cerebrum C. Cerebellum D. Pineal body E. Olfactory lobe
10. Where is food stored in a yam plant? A. stem B. bud C. adventitious root D. leaves E. tap root
11. The mushroom is an organism which feeds A. parasitically B. saprophytically C. holozoically D. symbiotically E. autotrophically
12. Exoskeleton is NOT found in the A. maggot B. mosquito larva C. earthworm D. caterpillar E. termite
13. A man with a normal haemoglobin (AA) marries a woman who has sickle-cell haemoglobin (SS). They have a child who has a sickle-cell trait. Which of the following genotypes would be associated with the child's haemoglobin ? A. M B. OO C. AO D. AS E. SS
14. Which of the following invertebrates does NOT possess antennae? A. Centipede B. Crustacean C. Millipede D. insect E. spider
15. An anemometer is an instrument for measuring A. relative humidity B. altitude C. wind speed D. turbidity E. salinity
16. Soil fertility can be conserved and renewed by A. yearly monocropping B. crop rotation and cover cropping C. bush burning to remove unwanted debris D. avoiding artificial manures E. destroying



NIGER DELTA UNIVERSITY

WILBERFORCE ISLAND, BAYELSA STATE

2014/2015 POST UTME SCREENING EXERCISE

Date: Saturday, August 9, 2014

Time: 1 hour 30 mins

Question Paper for Faculty of Engineering

MATHEMATICS

- Evaluate $\frac{(0.14)^2 \times 0.275}{7(0.02)}$ correct to 3 decimal places
A. 0.308 B. 0.358 C. 0.039 D. 0.033
- The mean of the numbers 1.2, 1.0, 0.9, 1.4, 0.8, 0.8, 1.2, and 1.1 is A. 1.5 B. 0.8 C. 1.0, D. 1.02, E. 1.05
- $(1.28 \times 10^4) \div (6.4 \times 10^2)$ equals A. 2×10^{-5} B. 2×10^{-1} C. 2×10^0 D. 2×10^1 E. 2×10^5
- After getting a rise of 15%, a man's new monthly salary is ₦345. How much per month did he earn before the increase? A. ₦330 B. ₦396.75 C. ₦300 D. ₦293.25 E. ₦360
- A trader goes to Ghana for y days with Y cedis. For the first x days, he spends X cedis per day. The amount he has to spend per day for the rest of his stay is A. $\frac{Y(y-x)}{y-x}$ cedis B. $\frac{Yy-Xx}{y-x}$ cedis C. $\frac{Y-Xy}{x-y}$ cedis D. $\frac{Y-X}{y-x}$ cedis E. $\frac{Y-Xx}{y-x}$ cedis
- If ₦560.70 is shared in the ratio 7:2:1, what is the smallest share? A. 392.49 B. 56.70 C. 113.40 D. 112.14 E. 56.07
- Find the median of the set of numbers 110, 116, 113, 119, 118, 127, 118, 117, 113 A. 117.5 B. 118 C. 117 D. 116 E. 113
- Simplify $\frac{\log_{10} 8 - \log_{10} 4}{\log_{10} 4 - \log_{10} 2}$ A. $\log_{10} 2$ B. $\log_{10} 8$ C. 0 D. $\log_{10} 4$ E. 1
- The letters of the word MATRICULATION are cut and put into a box. One letter is drawn at random from the box. Find the probability of drawing a vowel? A. $\frac{7}{13}$ B. $\frac{5}{13}$ C. $\frac{6}{13}$ D. $\frac{8}{13}$ E. $\frac{4}{13}$
- If a rod of length 250cm is measured in error as 255cm long in error, what is the percentage error in the measurement? A. 55 B. 10 C. 5 D. 4 E. 2
- Thirty boys and x girls sat for a test. The mean of the boys scores and that of the girls were respectively 6 and 8. Find x if the total score was 468. A. 38 B. 24 C. 36 D. 22 E. 41
- Rationalize $\frac{5\sqrt{7}-7\sqrt{5}}{\sqrt{7}-\sqrt{5}}$ A. $-2\sqrt{35}$ B. $4\sqrt{7}-6\sqrt{5}$ C. $-\sqrt{35}$ D. $4\sqrt{7}-8\sqrt{5}$ E. $\sqrt{35}$
- If Musa scored 75 in Biology instead of 57, his average mark in four subjects would have been 60. What was his total mark? A. 282 B. 240 C. 222 D. 210 E. 230



NIGER DELTA UNIVERSITY

WILBERFORCE ISLAND, BAYELSA STATE

2014/2015 POST UTME SCREENING EXERCISE

Date: Saturday, August 9, 2014

Time: 1 hour 30 mins

Question Paper for Faculty of Social Sciences & Education-Social Science

GEOGRAPHY

1. Which of the following instruments is used in measuring wind speed? A. Wind vane B. Barometer
C. Cup anemometer D. Hygrometer E. Speedometer
2. Which purpose is NOT served by the Kainji Dam? A. Provision of research facilities B. Provision of
water for domestic use all over Nigeria C. Provision of fishing facilities D. Generation of electricity for
use all over Nigeria E. Provision of recreational facilities.
3. What does subsistence Agriculture mean? A. Intensive Agriculture B. Extensive Agriculture
C. Agricultural production for cash D. Agricultural production for export E. Agricultural production
for consumption.
4. Which of the following factors least explains the fast growing population in African countries?
A. Control of diseases B. Decline in death rates C. The education of women D. Improvement in
Transportation E. Provision of more hospitals
5. Rainfall caused by the movement of air over a mountain is termed A. orographic rainfall B. cyclonic
rainfall C. frontal rainfall D. thunder shower E. convectional rainfall
6. Two factors which promote rapid weathering in the Tropics are A. high temperature and extreme
aridity B. high temperature and low humidity C. low temperature and high humidity D. high
temperature and high humidity E. high temperature and low rainfall
7. One of the electric power stations in Nigeria which uses natural gas as a source of energy is A. Oji
River B. Sapele C. Ijora D. Kainji E. none of these
8. The Nigerian petroleum refineries are located in one of the following pairs of towns A. Lagos and Port
Harcourt B. Port Harcourt and Calabar C. Benin and Warri D. Calabar and Kaduna E. Port Harcourt
and Warri
9. The three most important grain crops of the world are A. Guinea corn, millet and rice B. wheat, rice
and millet C. rice, wheat and maize D. rice, millet and maize E. rice, wheat and guinea corn
10. When subjected to sufficient stress, rocks break and sometimes move along the plane of fracture
and are displaced. This process is known as A. faulting B. warping C. folding D. jointing E. shifting
11. Which of the following expresses the main advantages of road transportation? A. Capacity for the
transportation of heavy and bulky goods B. Low operating costs C. Fast and safe passenger
transportation D. Flexibility and maximum access along transport routes E. low fuel and oil
consumption
12. Plants in the savannah are adapted mainly to alternating periods of high and low A. light intensities
B. water supply C. temperatures D. soil salinity E. soil acidity