**FOUNTAIN UNIVERSITY OSOGBO, NIGERIA**

P.M.B.4491, OSOGBO, OSUN STATE.

**COLLEGE OF MANAGEMENT & SOCIAL SCIENCES**

**GENERAL STUDIES UNIT**

2019/2020 SUMMER SECOND SEMESTER EXAMINATIONS

**GNS 102: USE OF ENGLISH Credit Unit/** **Status**: 2

**Time Allowed: 2HRS** 0**4/12/2020**

**Instruction : Answer ALL questions.**

**Read the passage below carefully and answer the questions that follow**. **Each carries 3 marks**

In 1962, a team of scientists produced a special radio station that had a range of fifteen miles. Even though communication was being accomplished in space at a range of more than a million times this distance, the new radio station caused much excitement among scientists. The reason: its power supply was a ‘battery’ made of bacteria. For the first time, practical amounts of electricity were being produced by a form of life and put to use.

‘Biocell’, the new power supply had a liquid fuel containing tiny forms of life that changed fuel directly into electric energy. This was far more than an interesting experiment. The biocell is being developed as producer of electricity for radios, for signals to guide ships, for lighting and other uses. Though the working biocell is only a few years old, some scientists feel that it will one day produce power cheaply as is now being done by other methods, and the biocell will use materials that would otherwise be considered as a waste. Early biocells were powered with sugar, but a wide range of fuels can be used. Work is being done using sea water to feed the bacteria.

Electricity from living cells is no new idea. Man experienced the strange ‘shock’ produced by some fish even before electricity was really discovered. Then in time, there were other discoveries. Benjamin Franklin found that lighting in the sky was electricity. Lulgi Galvani found some electricity in the muscles and nerves of animals. But the African catfish produces far more electricity than most other living creatures. And another fish, the electric eel, well named, for it has even greater electric charge. Research works also discovered that even humans produce small amounts of electricity in their bodies. Our hearts produce a very small amount that can be measured, so do our brains. The biocell is completely new in the field of power production and, as yet, no mass-produced models have begun to replace the older types of batteries. It might be wondered, then, what the excitement is all about.

**Adapted from The Department of English (1998) Obafemi Awolowo University, Ile-Ife: Use of English Text**

1. A suitable title for the passage is
   1. Energy from Living Things b. Electricity and Living Creatures c. Biocell and Scientific Discoveries d. The Biocell’s Future.
2. The writer’s posture, as conveyed in the statement *Electricity from living cells is no new idea*, can be described as a. ineffectual b. contentious c. logical d. unguarded.
3. Which of the following is true according to the passage? a. Scientists felt that biocells would produce very costly energy b. Biocells, at the beginning, derived their energy from sugar c. Sugar and fuel were initially used as sources of energy for biocells d. Biocells were forms of power used by the scientists.
4. The inventors of biocell justified the need for it by saying that it would a. develop ways of changing biocells into fuel for use b. yield a source of energy without much spending c. produce electricity for all types of machines d. produce signals to guide all ships and other vessels.
5. According to the passage, electricity was first discovered in a. hearts and brains b. muscles of animals c. lighting d. fish

***15 marks***

1. In one sentence, summarise all the sources of electicity stated in the passage.

ii. In four sentences, one for each, summarise the advantages of biocell. (***15 marks*)**

1. Construct a paragraph of not more than **10 lines** on one of the effects of COVID-19 on Nigerian economy. (***10 marks*)**. **Writing more than 10 lines attracts -5 marks**
2. If you wished to apply to Fountain University for a job, draw a suitable CV or resume you would submit. (***10 marks)***
3. You were facing some challenges in your hostel, write a letter of 200 words to the Dean, Students’ Affairs stating three (3) of the problems and at the same time suggesting solutions to the problems (***10 marks)***.
4. **B**
5. **C**
6. **C**
7. **B**
8. **D**