

UMMUL-QURA HIGH SCHOOL

Arowona Bus-Stop, Amuloko, Ibadan, Oyo State

Second Term Examination, 2020/2021 Academic Session.

Subject: BST I

Class: JSS 2

Time: 2:30 hours

Instructions: Answer *all* questions in Section A and *two* in Section B.

PAPER I & II [Objective and Theory]

SECTION A: OBJECTIVE (40 marks).

BASIC SCIENCE

1. A ball of 2 **kg** was played to hang on top of 15 m pole. Calculate its potential energy.
[Take $g = 10.0 \text{ m/s}^2$]
A. 200 **N**
B. 300 **N**
C. 2.5 **J**
D. 300 **J**
2. The capacity of any system to do work is called ----.
A. power
B. work
C. energy
D. newton
3. The scientist that proposed the universally accepted principles of gravitation is called ---.
A. Michael Faraday
B. Watt
C. Aristotle
D. Sir Isaac Newton
4. Which of the following statements is **not** correct about boiling and evaporation?
A. Boiling takes place at any temperature of liquids and different liquids have different evaporating points
B. Steady temperature is not important in evaporation but during boiling the temperature must be steady
5. Which of the following is compressible?
A. Solid
B. Liquid
C. Gas
D. Both liquid and gas
6. What is the kinetic energy of a fired bullet of mass 0.5 **kg** that moves with a velocity of 8 **m/s**?
A. 8 **J**
B. 2 **J**
C. 16 **J**
D. 4 **J**
7. Calculate the work done by a student that used a force of 2 **N** to carry a load to a distance of 10 **m**.
A. 20 **J**
B. 5 **J**
C. 10 **J**
D. 2 **J**
8. The energy possessed by a moving body is known as ---- energy.

- A. electrical
 - B. potential
 - C. chemical
 - D. kinetic
9. The measure of the earth's gravitational pull on a body is known as -----.
- A. area
 - B. mass
 - C. height
 - D. weight
10. A state of **not** experiencing gravitational force is called -----.
- A. acceleration
 - B. gravitation
 - C. velocity
 - D. weightlessness
11. All the following are examples of agrochemicals except -----.
- A. dyes
 - B. de-warmers
 - C. insecticides
 - D. fertilizers
12. Chemicals that are used by farmers are classified as -----.
- A. Pharmaceutical
 - B. industrial
 - C. agrochemicals
 - D. none of these
13. When a chemical is dangerous and poisonous, it described as ----.
- A. non-hazardous and toxic
 - B. hazardous and toxic
 - C. explosives and corrosive
 - D. inflammable
14. Which of the following is **not** correct?
- A. Chemical bottles should be well labelled
 - B. Chemicals should be well stored in a dry and cool place
 - C. Safety signs and instructions should be partially followed
 - D. Unlabeled chemicals should be discarded
15. Chemicals are classified based on ----
- I - intended use, II - hazardous nature, III – process of manufacturing
 - A. I and II only
 - B. I, II and III only
 - C. II only
 - D. II only
16. What makes man unique is the -----.
- A. ability to walk uprightly on two legs
 - B. ability to produce young ones
 - C. possession of bigger and highly developed brain
 - D. possession of audible speech
17. ----- habitat is a type of aquatic habitat where the salt content is between, 0.5ppm and 28ppm.
- A. Marine
 - B. Brackish
 - C. Fresh water
 - D. Sahel savannah
18. Aquatic habitat is classified into three based on ----.
- A. physical factor
 - B. aquatic organisms
 - C. salinity
 - D. water volume
19. The following are adaptive features of terrestrial animal **except** -----.
- A. fins
 - B. hair
 - C. lungs
 - D. limbs
20. Which of the following is an example of arboreal habitat?

- A. Tree snake
- B. Land snake
- C. Water snake
- D. Land goat

PHYSICAL EDUCATION

21. When a ball is served and hit the net before falling into an opponent court, the occurrence is known as -----.
22. Law tennis is also known as formally called ----.
23. The following are the skills in table tennis except ----.
24. In table tennis and lawn tennis when a player has no point, it means -----.
25. When two players have the same score of 3 point, it is called -----.
26. The dimensions of table tennis board is -----.
27. Modern Tennis was introduced by -- --.
28. Continuous exchange of strokes over the net is referred to as -----.
29. An immediate care given to an injured or sick person is known as --- --.
30. When was the tennis game introduced?
31. Bat is otherwise called -----.
32. A ----- is conducted to determine the first player to serve in tennis.
33. Table tennis is started with a -----.

- D. Service
34. When was the first international table tennis competition held? ----.
- A. 1827
 - B. 1927
 - C. 1972
 - D. 1872
35. ----- is an injury caused by and heat.
- A. Falls
 - B. Burn
 - C. Scald
 - D. Cut
36. An injury sustained from hot liquid or steam is referred to as -----.
- A. burn
 - B. scald
 - C. cut
 - D. falls
37. Which of these is not a cause of sport injury?
- A. Adequate supervision
 - B. Wet sport ground
 - C. Unequal match
 - D. Failure to follow instructions
38. Which one of the following is not a prevention of school accident?
- A. Use of faulty equipment
 - B. Provision of a conducive teaching and learning environment
 - C. Adequate instruction
 - D. Provision of fire extinguisher
39. A kind of wound sustained from sharp objects like broken bottle and knife is called ----.
- A. puncture wound
 - B. lacerated wound
 - C. incised wound
 - D. bruises
40. ----- is freedom from injury.
- A. First aid
 - B. Accident
 - C. Safety
 - D. Safety education

SECTION B: THEORY (40 marks).

Instructions: Answer **two** questions in **ALL** question **one** is compulsory.

1a. Define the following terms;

- a) Work
- b) Energy
- c) Power

1b. State the laws of conservation of energy.

1b. State **three** forms of energy

1c. i. A load of mass **12 kg** was raised through a vertical height of **5m** in 30 s. If acceleration due to gravity is **10 m/s²**. Calculate;

- i. Force
- ii. Work done
- iii. Power

ii. A concrete block weighed **50 N** was lay overhead bridge. Calculate its potential energy.

2a. Define the following terms;

- i. Safety education
- ii. Accident
- iii. First aid

2b. State **three** rules in playing tennis.

2c. i. List any **six** skills in ping-pong game.

ii. List and explain **four** languages of tennis.

3a. State **two** factors that affects evaporation

3b. What is sport injuries? Explain **two** causes of sport injuries.

3c. i. A rock of **5 kg** rolls down a tilt with a velocity of **10 m/s**. Calculate it kinetic energy.

ii. Mention **three** states of matter.