

ADDIS KETEMA SUB-CITY EDDUCATIONAL OFFICE PRIMARY SCHOOL GRADE
EIGHT GENERAL SCIENCE MODEL EXAMENATION

SENE 2015/JUNE 2023

GENERAL DIRECTION

1. READ THE INSTRUCTION VERY CARFULLY. IF YOU HAVE ANY QUEASTIONS, ASK TEACHER BEFORE EXAMINATION BEGINS. NO QUEASTION WILL BE ANSWER AFTER THE EXAMINATION BEGUN
2. YOU HAVE EXACTLY 1 HOUR TO WORK ON THIS EXAMINATION
3. EACH QUEASTION HAS FOR CHOICES. A, B, C AND D
4. IF YOU WANT CHANGE YOUR ANSWER CHAGE YOUR ANSWER ROUBOUT FRIST CHOICES COMPLETELY
5. YOU MUST DO EXAMINATION ON YOUR OWN
6. AT THE END OF 1 HOUR YOU WILL BE TOLD STOP BY YOUR EXAMINER TEACHER

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

CHOOSE THE CORRECT ANSWER FOR THE FOLLOWING QUESTION FROM THE GIVEN ALTERNATIVE AND BLACKEN THE LETTER OF YOUR CHOICE ON THE ANSWER SHEET PROVIDED.

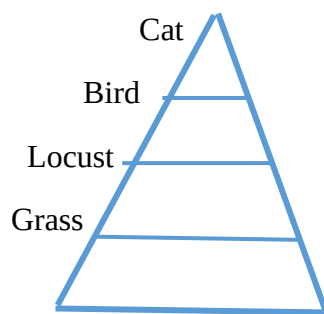
- Which of the following is indigenous unit of mass measurement
A. digit B. pace C. arm span D. Feresula
- Which of the following derived physical quantity is correct with its SI unit?
A. area-----m/s B. density---- kg/m³
C. speed----m² D. volume-----m/s²
- Which one of the following is not fundamental physical quantity?
A. mass B. length C. acceleration D. time
- Which of the following is correct prefix name representation of 0.000001?
A. million B. millionth C. Thousand D. hundredth
- One of the following is the last step of scientific method of scientific investigation?
A. test hypothesis B. communicating results C. ask question D. establish hypothesis
- Which one of the following is the lightest sub-- atomic particle?
A. nucleus B. electron C. neutron D. proton
- The atomic number and mass number of an atom is represented by symbol $^{24}_{12}\text{X}$ how many numbers of protons, electron and neutron are there?
A. 12proton, 12 electron, 16neutron B. 6 proton, 24 neutron, 12 electron
C. 12 protons, 12electron, 12 neutron D. 12 proton, 6neutron 6electron
- Which of the following is positively charged particle located in the nucleus of atom?
A. electron B. proton C. neutron D. shell
- Which one of the following molecules is molecule of compound?
A. NH₃ B. O₃ C. He D. Ne
- Which of the following formula an alkyne that containing 5 carbon atoms?
A. C₅H₁₀ B. C₅H₈ C. C₅H₁₂ D. C₅H₆
- A group of compounds which consecutive members differ by –CH₂- group is called -----
A. homologous series B. heterogonous compound
C. homogenous compound D. atomic series of element

12. Which of the following is correctly Mach with the property of acid?
- A. acid-----bitter test
B. acid----realise hydrogen ion
C. acid--- red colour with phenolaphtelin
D. acid--- realise hydro oxide ion
13. Which one of the following compounds can be used for preservation of biological specimens?
- A. methane
B. ethyne
C. propane
D. formalin
14. Which of the following substance is given a person who drink accidentally corrosive acid?
- A. take $Mg(OH)_2$
B. take KaoH
C. take H_2SO_4
D. take Hcl
15. The colour of indicator phenolphatin is red in unknown solution. The solution is
- A. basic
B. acidic
C. amphoteric
D. neutral
16. What is the missing product does Y represent in the following reaction?
- $Ca(OH)_2 \rightarrow Y + H_2O$
- A. CaC_2
B. CaO
C. Ca
D. CaC_2
17. 17. Which of the following part of itegumatery system is correctly match with its function?
- A. hair -----keep your skull warm
B. gland----- protect inner part of finger
C. nail -----reduce excess water
D. skin----- digestion of food
18. 18. A skin disease characterized by rough scaly patch on the skin disease that develop from year's sun exposure is:
- A. actinic keratosis
B. warts
C. latex allergy
D. Cold store
19. Which one of the following is a gland found in female mammal that use to produce breast milk after giving birth?
- A. ceremonious gland
B. sebaceous gland
C. mammary gland
D. sudoriferous gland
20. Which of the following statement is NOT true about muscle?
- A. muscle can push
B. muscle can contract
C. muscle help digestion of food
D. muscle can pull
21. 2Muscle that move when we want them to move are called -----
- A. involuntary muscle
B. skeletal muscle
C. smooth muscle
D. cardiac muscle

22. From human skeletal system which one of the following is NOT a part of axial skeleton?
- A. hyoid B. sternum C. arm D. skull
23. Which one of the following types of bone has yellow bone marrow?
- A. short bone B. irregular bone C. flat bone D. long bone
24. The breakdown of food into particles small enough to enter cell is called _____
- A. excretion B. digestion C. egestion D. absorption
25. Which one of the following is end product of protein in human digestive system?
- A. amino acid B. fatty acid C. Glycerol D. glucose
26. Which one of the following respiratory organs with many tiny air sacs in the lung where the exchange of Oxygen and carbon dioxide takes place?
- A. trachea B. pharynx C. bronchus D. alveoli
27. Which of the following is a respiratory system disease that causes an inflammation of the lining of your bronchial tube which carries air to and from the lung?
- A. bronchitis B. asthma C. influenza D. sinusitis
28. Which of the following is a component of the human circulatory system?
- A. kidney B. liver C. mouth D. heart
29. The chamber of the heart which pumps blood over a longer distance than the rest is
- A. right auricle B. left auricle C. right ventricle D. left ventricle
30. If you cut your finger, blood comes out and then stops flowing, this is due to clotting of blood by:
- A. red blood cells B. platelets
- C. white blood cells D. leucocytes
31. In which part of the reproductive system of a human female does pregnancy take place?
- A. vagina B. uterus C. oviduct D. clitoris
32. Which of the following is a male reproductive organ that produces sperm cells?
- A. testis B. penis C. scrotum D. urethra
33. Which of the following is NOT a harmful traditional practice that affects females?
- A. illegal abortion B. contraception
- C. female genital mutilation D. early marriage

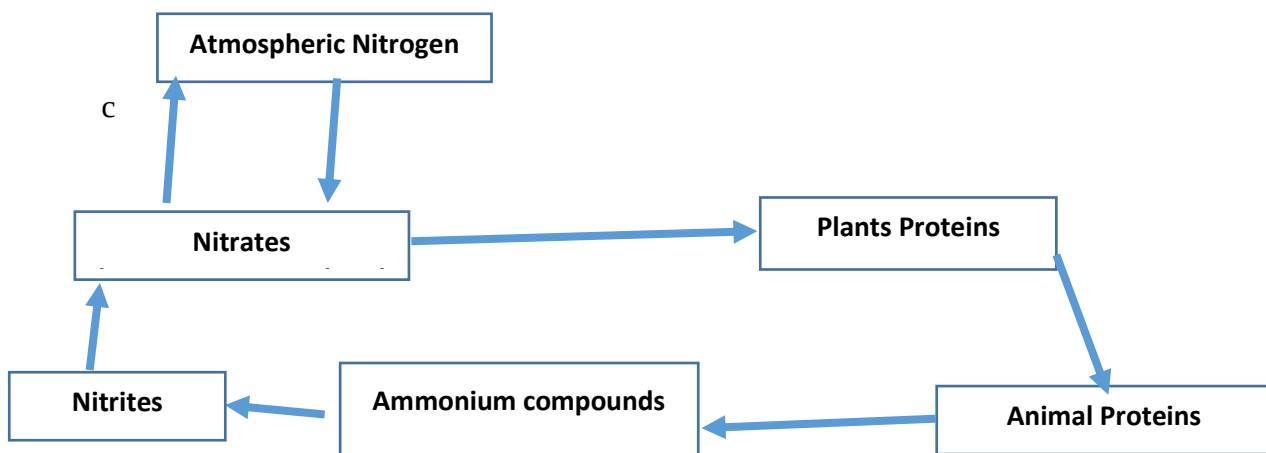
34. Which of the following is secondary sexual characteristics of male?
- A. widening of hips B. voice become thinner
- C. breast development D. shoulder and chest broaden
35. Which of the following is component of biotic factor?
- A. water B. soil C. temperature D. plant
36. A certain tropical tree has fruit that is eaten by bats. As the bat digests the fruit, the seed are made ready to sprout when the bat excrete the wastes of the fruit it drops seed in new location. Which of the following is correct relationship between the bat and tree?
- A. mutualism B. commensalism C. predation D. Competition
37. Which of the following describes about decomposers? They are
- A. autotrophs B. phototrophs C. heterotrophs D. chemotrophs

Item number 38 and 39 based on the following food chain



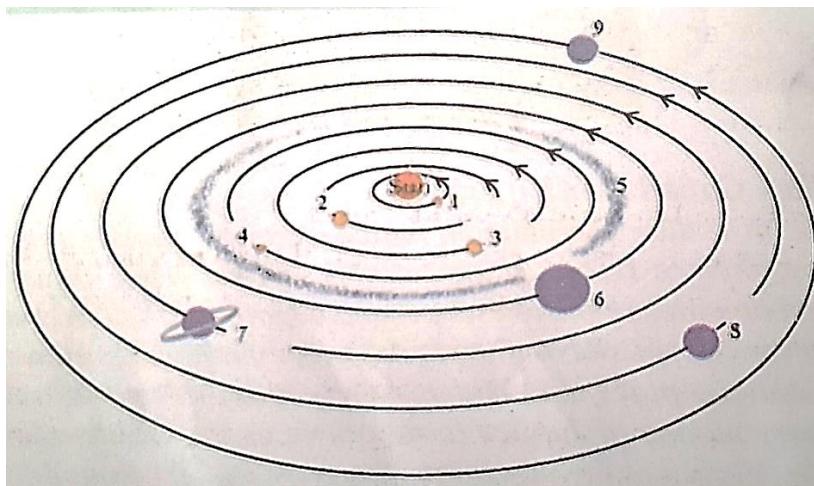
38. From the above food chain which one of the following is primary Consumer?
- A. grass B. cat C. locust D. bird
39. Based on the above pyramid which one of the following organisms is found on fourth trophic level?
- A. cat B. bird C. locust D. grass

This item is based on the following nitrogen cycle



40. Letter C represents on the above diagram of nitrogen cycle is
- A. nitrogen fixing bacteria B. nitrifying bacteria
C. nitrogenous bacteria D. denitrifying bacteria
41. Which of the following gas is result in global warming when accumulated in atmosphere?
- A. hydrogen B. water vapour C. oxygen D. carbon dioxide
42. Which type of the soil particle have high water holding capacity?
- A. sandy soil B. loam soil C. clay soil D. silt soil
43. Blockage of reduction of sun light from the reaching the earth surface is known as
- A. acid rain B. green gas effect C. global warming D. global dimming
44. Which of the following is not important method for water conservation?
- A. inter industrial waste to water B. counter ploughing
C. cover vegetation D. terracing
45. Which one of the following is an example of in situ conservation of bio-diversity?
- A. seed bank B. aquarium
C. national park D. botanical garden
46. Which one the following of the smallest planet in the solar system?
- A. Jupiter B. mercury C. Saturn D. Neptune

Item number number48, 49 and 50 based on the figure below



47. The largest volcano is found in the representing number of the planet is:
A.1 B.5 C.6 D.4
48. Which of the following plant is the only planet that support life?
A.9 B.7 C.3 D.8

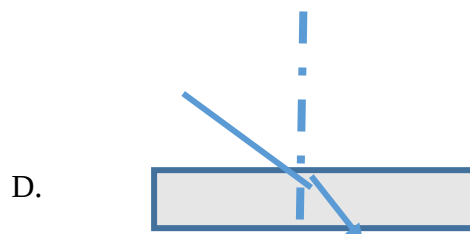
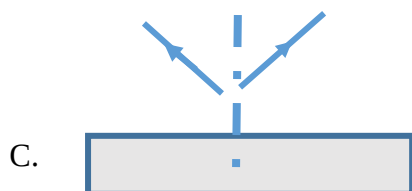
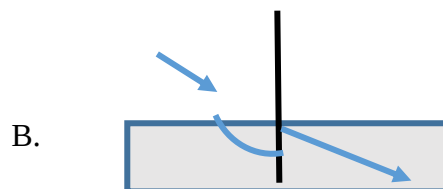
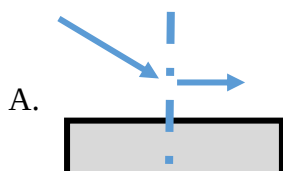
49. from the above figure of solar system which of the following are Jovian planets?

- A. 6, 7, 8, 9 B. 7, 6, 8, 9 C. 1, 2, 3, 4, 5 D. 5, 6, 7, 8, 9

50. Which one of the following is natural source of light?

- A. electric bulb B. candles C. stars D. lamp

51. Which one of the following diagrams represents refraction of light when it travels from air to water?



52. Assume that white light pass through a prism. Which of the following colour light has larger angle of deviation on emerge out from the prism?

- A. blue B. green C. violet D. red

53. When you look a plane mirror you see an image of yourself which of the following is correct about your image?

- A. laterally inverted of yourself B. real image of your self
C. magnifying size of yourself D. smaller size of your self

54. Materials that don't allow light through them are called-----

- A. vacuum B. Transparent C. Translucent D. opaque

55. The correct order sound transmittion from the slowest transmittion to fastest the three Medias:

- A. glass, air and water B. air, water and glass
C. water, glass and air D. glass, water and air

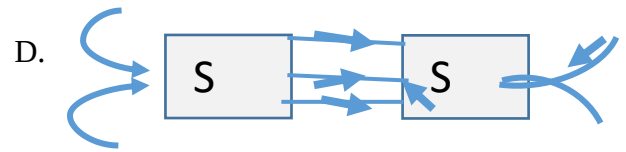
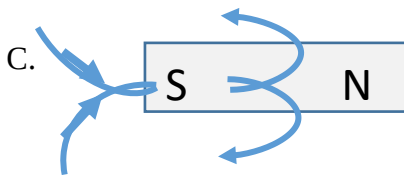
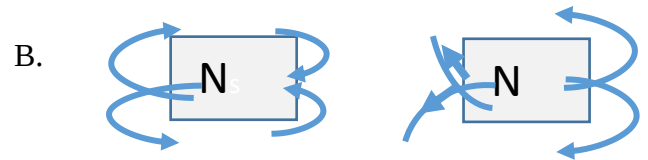
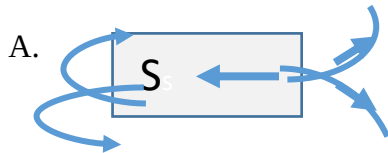
56. Which one of the following modes of transfer heat from high temperature body to a body of low temperature without any material medium?

- A. conduction B. convection C. radiation D. induction

57. Which of the following is symbol represent symbol of a switch?



58. Which of the following magnetic field line force is correct?



59. The branch of physics that studies about the property of magnet is

A. Magnetism

B. Optics

C. thermodynamics

D. mechanics

60. Which one of the following is not the uses of magnet?

A. for making paper

B. for making compasses

C. to store data in computer

D. to scanning machines