Arada subcity wereda 04 education office Atse Fasil cluster center 2015 (E.C) second semester General Science model examination for

General direction

- The examination contains 60 questions
- Read each questions and the choices carefully choose the best answer and mark your choice on the separate answer sheet you are provided.
  To mark your answer, blacken the rectangle below the letter of your with pencil

I. Choose the correct answer form the given options and blacken the letter your choice on the answer sheet provided

_____ 1. The amount of matter present in a give substance is called _____.

A/ time B/ mass C/ volume D/ length

_____ 2. Which one of the following is an indigenous method of measuring volume?

A/ digit B/ feresula C/ jog D/ shadow

_____ 3. How many feresula of a mass of 680 kg coffee?

A/ 20 B/ 40 C/ 50 D/ 680000

_____ 4. One of the following is the second step in scientific investigation?

A/ asking question C/ communicating result

B/ set hypothesis D/ perform back ground research

_____ 5. If kebede measured the length of the table 4 times he got the result 3.1m, 3m, 2.99m and 3.05m. The actual or known length of the table is 4m which one of the following correct about Kebede's measurement?

A/ accurate and precise C/ accurate but not precise

B/ precise but not accurate D/ neither precise nor accurate

_____ 6. Which one of the following is indicate attentive explanation of for a set of observation?

A/ hypothesis B/ theory C/ conclusion D/ measurement

_____ 7. What is the prefix that represent 1,000.000 or 10^6 ?

A/ kilo B/ micro C/ centi D/ mega

_____ 8. The idea that matter is continuous was proposed by?

A/ democrats B/ Mendeleev C/ Aristotle D/ Darwin

_____ 9. Which of the following sub-atomic particle located outside the nucleus of an atom?

A/ electron C/ electron and proton

B/ proton and neutron D/ neutron and electron

_____ 10. The atomic number and mass number of an element is represented by the symbol

$^{35}_{17}Cl$. How many number of protons electrons and neutrons are there respectively?

A/ 17 protons, 17 electrons and 16 neutrons

B/ 16 protons, 17 electrons and 17 neutrons

C/ 17 protons, 16 electrons and 17 neutrons

D/ 17 protons, 17 electrons and 18 neutrons

_____ 11. Which one of the following is a poly atomic molecule?

A/ H_e B/ F_2 C/ S_8 D/ NaCl

_____ 12. Which of the following is organic compound?

A/ animal fat B/ coffee C/ salt D/ A and B

_____ 13. Which of the following compound <u>is not</u> organic compound?

A/ CH_4 B/ CO_2 C/ $C_6H_{12}O_6$ D/ C_4H_8

_____ 14. The name of alkane that contain five carbon atom is?

A/ Hexane B/ Hexyne C/ Pentene D/ Pentane

_____ 15. Which hydrocarbon can be used to produce oxyacelylene flame that used to cutting and welding steel and iron?

A/ Ethyne B/ Formalin C/ Ethanol D/ Methane

_____ 16. Which one of the following is a binary compound that containing oxygen and one another element?

A/ Oxide B/ Acid C/ Base D/ Salt

_____ 17. Which one of the following is a metallic oxide?

A/ carbon dioxide C/ magnesium oxide

B/ hydrogen oxide D/ sulphur dioxide

_____ 18. Which of the following <u>is not</u> true about properties of acids?

A/ acids have sour taste

B/ acids change litmus paper from red to blue

C/ acids neutralize bases

D/ acids change methyl orange to red

_____ 19. Which one of the following is an example of bases?

A/ KOH B/ CO_2 C/ HCl D/ H_2O

_____ 20. What types of ions that release when bases dissolve in water?

A/ hydrogen ion C/ hydronium ion

B/ hydroxide ion D/ oxide ion

_____ 21. The neutralization reaction of an acide and base is given by equation

$H_2SO_4 + CaOH \longrightarrow$ Y + H_2O what is the salt represented by Y?

A/ Na_2SO_4 B/ CaOH C/ $CaSO_4$ D/ $MgSo_4$

_____ 22. Which one of the following acid-base application neutralization reaction in our daily life?

A/ using tooth paste to brush our teeth

B/ we take magnesium hydroxide when hydrochloric acid excess in our stomach

C/ acidic soil treated with calcium oxide and calcium hydroxide

D/ all of the above

_____ 23. The compounds that are formed by the reaction of acid with base are called?

A/ acids B/ oxides C/ bases D/ salts

_____ 24. The component of an integuentary system that keeps your skull warm and gives beauty for women is?

A/ hair B/ skin C/ glands D/ nail

_____ 25. Which of the following muscle found only on the wall of the heart?

A/ skeletal muscle C/ smooth muscle

B/ cardiac muscle D/ none of the above

_____ 26. A group of inherited disease caused by weakness of muscle tissue is called?

A/ muscular dystrophy C/ strain

B/ muscle strain D/ cold sore

_____ 27. Which of the following bone contains cranial and facial bone?

A/ sternum B/ hyoid C/ skull D/ vertebral column

_____ 28. The hardest and compact, tubular bone filled with yellow bone is called?

A/ irregular bone C/ flat bone

B/ short bone D/ long bone

_____ 29. Which of the following <u>is not</u> component of digestive system?

A/ esophagus B/ anus C/ pharynx D/ stomach

_____ 30. An animal having a dental formula of $\frac{3}{3}, \frac{1}{1}, \frac{4}{4}, \frac{3}{3}$ what type of teeth has 16 total numbers?

A/ premolars B/ canines C/ incisors D/ molars

_____ 31. Which of the following <u>is not</u> the component of blood circulatory system?

A/ heart B/ lung C/ blood vessel D/ blood

_____ 32. Among the following primary sexual characteristics of male <u>do not</u> include the present of _____?

A/ testis B/ scrotum C/ sperm cell D/ penis

_____ 33. The age when menstrual cycle stops and marks the end of giving birth is called?

A/ ejaculation C/ menstruation

B/ menopause D/ ovulation

_____ 34. Which of the following is secondary sexual characteristics of female?

A/ shoulder and chest broaden

B/ testis beings to produce sperm cells

C/ voice become thinner

D/ developed more muscles

_____ 35. A branch of Biology that deals about the interaction between organisms and their habitat is?

A/ zoology B/ geology C/ physiology D/ ecology

_____ 36. Which is biotic component of an ecosystem?

A/ water B/ air C/ soil D/ plants

_____ 37. The place where that contain both biotic and abiotic component is?

A/ ecosystem C/ parasitism

B/ environment D/ predation

_____ 38. In which of biological interaction one organism is benefited while the other is neither benefited nor harmed?

A/ mutualism C/ parasitism

B/ commensalism D/ protocooperation

_____ 39. In food chain leaf → Goat → Fox Tiger; the third atrophic is taken by?

A/ leaf B/ tiger C/ goat D/ fox

_____ 40. Food web is different from food chain by?

A/ there are more than one food chain

B/ energy flows in one direction

C/ there is only one food chain

D/ direct and simple feeding system

_____ 41. Natural resources that are capable of being to produced reused and replaced is?

A/ non- renewable C/ renewable

B/ once used D/ all of the above

_____ 42. What type of method that an organism conserve in their habit?

A/ ex-situ conservation C/ migrate conservation

B/ in-situ conservation D/ all of the above

_____ 43. Which is reduction of nitrate back to inert nitrogen gas?

A/ nitrification C/ nitrogen fixation

B/ ammonification D/ denitrification

_____ 44. Which of the following is the major cause to decline soil fertility?

A/ soil erosion C/ deforestation

B/ over grazing D/ all

_____ 45. Which of the following natural resource is non-renewable?

A/ petroleum B/ plants C/ animals D/ water

_____ 46. Which one of the following is poor water holding capacity?

A/ clay soil B/ silt soil C/ sandy soil D/ loam soil

_____ 47. The main driving factor in oxygen cycle is?

A/ chemosynthesis C/ heterotrophs

B/ photosynthsis D/ none of the above

_____ 48. Which of the following is the method used to conserve soil?

A/ afforestation C/ crop rotation

B/ terracing D/ all of the above

_____ 49. Which of the following type of soil is the best for plant growth?

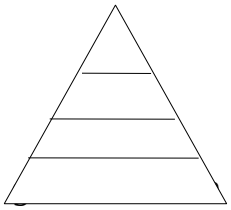
A/ sand soil B/ loam soil C/ clay soil D/ gravel

_____ 50. Which of the following <u>is not</u> recycled in the biosphere?

A/ energy B/ water C/ nitrogen D/ carbon

_____ 51. Which of the following is the least energy flow in the given pyramid of each tropic level?

A/ A B/ C C/ B D/ D



_____ 52. Which of the following organism plays all nutrient cycle?

A/ producer B/ plant C/ decomposer D/ herbivore

_____ 53. Which of the following planet is the farthest from the sun?

A/ mercury B/ Saturn C/ Neptune D/ mars

_____ 54. Which one of the following <u>is not</u> characteristics of outer (Jovian) planet?

A/ high density C/ large diameters

B/ high mass D/ made up of hydrogen & helium gas

_____ 55. Which of the following <u>is not</u> inner planet?

A/ Mercury B/ Mars C/ Venus D/ Saturn

_____ 56. Which of the following planet has maximum number of moons?

A/ mars B/ Saturn C/ Neptune D/ Uranus

_____ 57. Which of the following one is dwarf planet?

A/ Asteroids B/ Venus C/ Eris D/ Comets

_____ 58. The distance from the Uranus to the sun is _____

A/ 778.3 million km C/ 149.6 million km

B/ 227.9 million km D/ 2871 million km

_____ 59. Which of the following planet is the only planet life on it?

A/ Earth B/ Mercury C/ Jupiter D/ Uranus

_____ 60. Which planet takes 88 days to make one complete revolution around the sun?

A/ Neptune B/ Mercury C/ Venus D/ Mars