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# General Science, 2016 EC, Grade 8 model exam, Arada

Grade 8 · General Science · 2016 E.C.

**Time allowed:** 120 minutes **Questions:** 59 **Total marks:** 59

Name _____ Grade _____ ID No. _____ Date _____

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**1.** A device that is used to measure the temperature of an object is (1)

**A.** Kelvin **B.** thermometer
**C.** meter. **D.** balance

**2.** One of the following is the amount of matter contained in a substance? (1)

**A.** Length **B.** Time
**C.** Mass **D.** Volume

**3.** The SI unit of Length is _____ (1)

**A.** Ruler **B.** Meter
**C.** Kilometer **D.** Millimeter

**4.** Which one of the following is fundamental physical quantity? (1)

**A.** Area **B.** volume
**C.** Density **D.** Temperature

**5.** Which one of the following is derived physical quantity? (1)

**A.** Length **B.** Area
**C.** Mass **D.** Time

**6.** The prefix that represents 1 / 1000000 is _____ (1)

**A.** Million **B.** Millionth
**C.** Thousandth **D.** Hundredth

**7.** How many seconds are in two hours? (1)

**A.** 7200 **B.** 720
**C.** 3600 **D.** 2400

**8.** 100000 cm is equal to _____ m. (1)

**A.** 10000 **B.** 1000
**C.** 100000 **D.** 100

**9.** Which one of the following statement is true? (1)

**A.** Derived units are derived from fundamental units.

**B.** Fundamental units are derived from derived units.

**C.** Fundamental units are big in value but derived units are small in value.

**D.** There is no difference between them.

**10.** Which one is indigenous method of measuring volume? (1)

**A.** Cubit **B.** digital balance

**C.** Tassa **D.** foot

**11.** Which one of the following is not a scientific method? (1)

**A.** Gathering **B.** observation

**C.** Evaluating **D.** None

**12.** One o is the measure of the duration for an interval (1)

**A.** Mass **B.** Length

**C.** Time **D.** Volume

**13.** The measure of the space occupied by an object is (1)

**A.** Length **B.** Volume

**C.** Mass **D.** Time

**14.** The process of obtaining the magnitude of a quantity to an agreed standard is. (1)

**A.** Physical quantity **B.** Temperature

**C.** Fundamental quantity **D.** Measurement

**15.** Which one of the following is the smallest unit of time? (1)

**A.** Second **B.** Minute

**C.** Hour **D.** Microsecond

**16.** The idea that matter is continuous was accepted by _____ (1)

**A.** Democritus **B.** Dalton

**C.** Aristotle **D.** Thomas Edison

**17.** Which of the following sub particle has the smallest mass? (1)

**A.** Proton **B.** Neutron

**C.** nucleus **D.** electron

**18.** The sum of the number of protons and neutrons in an atom is____ (1)

**A.** Atomic number **B.** Atomic mass.

**C.** Mass number **D.** electrons

**19.** 3O 2 contains (1)

**A.** Three oxygen atoms. **B.** two oxygen atoms

**C.** Three oxygen molecules **D.** 5 oxygen molecules

**20.** Which one of the following sub particle is located in nucleus of an atom? (1)

**A.** Proton and neutron.
**B.** Proton and electron
**C.** electron and neutron
**D.** proton, neutron and electron

**21.** The number of neutrons in 19 9 Fare (1)

**A.** 13
**B.** 10
**C.** 9
**D.** 12

**22.** The charge of neutron is _____ (1)

**A.** Positive.
**B.** Negative
**C.** Charge less
**D.** none

**23.** What is the number of electrons in 23 11 Na + ion (1)

**A.** 10
**B.** 11
**C.** 23
**D.** 22

**24.** Which one of the following is diatomic molecule? (1)

**A.** Ne
**B.** O 3
**C.** O 2
**D.** O 4

**25.** Which one of the following is molecule of an element? (1)

**A.** HCl
**B.** CaO
**C.** CO 2
**D.** O 2

**26.** The Mass of an atom is almost the mass of its _____ (1)

**A.** Neutron
**B.** Nucleus
**C.** Proton
**D.** Electron

**27.** The Chemical Symbol of an element gold is _____ (1)

**A.** Hg
**B.** Al
**C.** Au
**D.** Ag

**28.** How many neutrons, protons and electrons are there in 27 13 Al (1)

**A.** 27,13,14
**B.** 13,14,14
**C.** 14,13,13
**D.** 27,14,13

**29.** The prefix 10 -6 represents the name _____ (1)

**A.** Kilo
**B.** milli
**C.** micro
**D.** mega

**30.** Which one of the following is not a noble gas element? (1)

**A.** Ar
**B.** Li
**C.** He
**D.** Ne

**31.** The first idea of atom was proposed by the Greek philosopher _____ (1)

**A.** Aristotle
**B.** Plato
**C.** Democritus
**D.** Dalton

**32.** Which one of the following compounds obtained from living organisms? (1)

**A.** Oxides **B.** compounds

**C.** inorganic compounds **D.** Organic compound

**33.** One of the following is hydrocarbons that have the general formula C n H 2n (1)

**A.** Alkenes **B.** methane

**C.** Alkynes **D.** All

**34.** Oxides that react with water to form bases or basic solution is called _____ (1)

**A.** Basic oxides **B.** Acidic oxides

**C.** Oxides **D.** Salt and water

**35.** One of the following can change blue litmus to red? (1)

**A.** Milk **B.** Lemon juice

**C.** Soda ashes **D.** All

**36.** The name of alkane that contains 5 carbon atom is? (1)

**A.** Pentene **B.** Pentane

**C.** Pentyne **D.** Methane

**37.** One is not hydrocarbon? (1)

**A.** Alkene **B.** Alkyne

**C.** Alkane **D.** Ethanol

**38.** Which of the following alcohol is found in alcoholic beverage? (1)

**A.** Propanol **B.** Butanol

**C.** Ethanol **D.** Butane

**39.** A bottle gas used as a fuel? (1)

**A.** Hexane **B.** butane

**C.** Pentene **D.** All

**40.** If an atom containing 19 protons, 19 electron and 20 neutrons, then what is its mass? (1)

**A.** 39 **B.** 49

**C.** 29 **D.** 59

**41.** Which of the following is used for production of plastics? (1)

**A.** Propene **B.** Propane

**C.** Butane **D.** methane

**42.** Which one is the properties of acids (1)

**A.** PH value > 7 **B.** Sour taste

**C.** Change red to blue **D.** releasing OH ion

**43.** Elements are formed from the smallest particles called _____ (1)

**A.** Protons **B.** Molecules

**C.** Atoms **D.** neutrons

**44.** A dye extracted from plant that show the presence of an acid or bases (1)

**A.** Product **B.** indicators

**C.** Bases **D.** properties of acid

**45.** Binary compound containing oxygen and any other elements are called _____ (1)

**A.** Oxygen **B.** salt

**C.** oxides **D.** Base

**46.** Acidic oxide reacts with basic oxides to form _____ (1)

**A.** Base **B.** Salt

**C.** Acids **D.** oxide

**47.** Which one of the following is compounds that contain carbon and hydrogen atom? (1)

**A.** Element **B.** oxides

**C.** Hydrocarbon **D.** Acids

**48.** Bases are compounds that neutralized acid to form _____ (1)

**A.** Acid **B.** bases and water

**C.** Salt **D.** Salt and water

**49.** Naming of hydrocarbon is called _____. (1)

**A.** Formula **B.** Symbol

**C.** Nomenclature **D.** Name

**50.** One is group of substance that release hydrogen ions (H + ) (1)

**A.** Acids **B.** Bases

**C.** Salt **D.** water

**51.** which one of the following is not parts of integumentary system. (1)

**A.** Skin **B.** Hair

**C.** Nail **D.** Skeleton

**52.** The hard covering at the end of the finger or toe is? (1)

**A.** Skin **B.** Gland

**C.** Nail **D.** muscle

**53.** The middle layer of the hair is called _____ (1)

**A.** Cuticle **B.** cortex

**C.** medulla **D.** part of hair

**54.** one of the following Is an organ that makes substances such as hormones is? (1)

**A.** Gland **B.** Epidermis

**C.** Skeleton **D.** Hair

**55.** One of the following is skin disease except? (1)

**A.** Hives **B.** Osteopenia

**C.** Acne **D.** warts

**56.** The general formula of Alkyne is? (1)

**A.** C n H n
**B.** C n H 2n-2
**C.** C n H 2n+1
**D.** C n H 2n+2

**57.** One of the following is voluntary muscle. (1)

**A.** smooth muscle
**B.** skeletal muscle
**C.** cardiac muscle
**D.** muscle

**58.** Hared bone filled with yellow bone marrow is called (1)

**A.** bone
**B.** short bone
**C.** long bone
**D.** tendon

**59.** One of the following is muscle disease that is a group of inherited disease. (1)

**A.** Acne
**B.** warts
**C.** muscular dystrophy
**D.** muscle strains

END OF THE EXAMINATION

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