

ILAHY ORIENTAL ARABIC HIGH SCHOOL

9TH SCIENCE QUARTERLY EXAM - 2019

MODEL QUESTION FOR EM

MARKS: 100

TIME: 2½ HR

I CHOOSE THE CORRECT ANSWER:

12 x 1 = 12

- ① 1 metric ton is equal to
(a) 100 quintals (b) 10 quintals
(c) $\frac{1}{10}$ quintals (d) $\frac{1}{100}$ quintals
- ② The centrifugal force is
(a) a real force (b) the force of reaction of centripetal force.
(c) a virtual force (d) directed towards the centre of the circular path.
- ③ Clouds float in atmosphere because of their low
(a) density (b) pressure (c) velocity (d) mass
- ④ _____ is essential to perform separation by solvent extraction method
(a) Separating funnel (b) filter paper
(c) centrifuge machine (d) Sieve
- ⑤ The term nucleons refer to
(a) Protons and electrons (b) only neutrons
(c) electrons and neutrons (d) protons and neutrons

- ⑥ The correct electronic configuration of potassium is
(a) 2, 8, 9 (b) 2, 8, 1 (c) 2, 8, 8, 1 (d) 2, 8, 8, 3
- ⑦ Elements in the modern periodic table are arranged in _____ groups and _____ periods.
(a) 7, 18 (b) 18, 7 (c) 17, 8 (d) 8, 17
- ⑧ Mesoglea is present in
(a) Porifera (b) coelenterata (c) Annelida
(d) Arthropoda
- ⑨ The animal without skull is
(a) Acrania (b) Acephalia (c) Apterida
(d) Acoelomate
- ⑩ Which of the following is a complex tissue?
(a) Parenchyma (b) collenchyma
(c) Xylem (d) sclerenchyma
- ⑪ Transpiration takes place through _____
(a) fruit (b) seed (c) flower (d) stomata
- ⑫ Data processing involves _____ steps
(a) Seven (b) four
(c) Six (d) eight

Answer any seven Questions:

7 × 2 = 14

Q.no: 22 is compulsory

- (13) Write the rules that are followed in writing the symbols of units in SI system.
- (14) Why it is easy to swim in river water than in sea water?
- (15) A few drops of 'Dettol' when added to water the mixture turns turbid. why?
- (16) Draw the structure of oxygen and sulphur atoms.
- (17) Match the following:

Triads	Newlands
Alkali metal	Calcium
Law of octaves	Henry Moseley
Alkaline earth metal	Sodium
Modern periodic law	Dobereiner

- (18) (a) List the respiratory organs of amphibians.
(b) why are frogs said to be amphibians?
- (19) What is complex tissue? Name the various kinds of complex tissues.
- (20) Mention the differences between stomatal and lenticular transpiration.
- (21) What is data processing? It has _____ steps.

- 22) A racing car has a uniform acceleration of 4 m s^{-2} . What distance it covers in 10 s after the start?

PART-III

Answer any SEVEN Questions only:

7x4=28

Q. no: 32 is compulsory

- 23) (a) Explain the Different measuring devices.
(b) Differentiate mass and weight.
- 24) Describe the construction and working of mercury barometer.
- 25) Write the differences between elements and compounds and give three example for each.
- 26) Explain the postulates of Bohr's atomic model.
- 27) state any five features of modern periodic table.
- 28) outline the flow charts of Phylum chordata.
- 29) List out the differences between mitosis and meiosis.
- 30) what is transpiration? Explain the various types of transpiration.
- 31) a) List out the generations of computer.
b) what are the different steps involved in data processing?

- 32) A ball is gently dropped from a height of 20m. If its velocity increases uniformly at the rate of 10m s^{-2} , with what velocity will it strike the ground? At what time will it strike the ground.

PART - IV

Answer for all questions: $3 \times 7 = 21$

- 33) (a) How will you find the thickness of a one rupee coin? [OR]
- (b) Derive the equations of motion by graphical method.
- 34) (a) Explain the Tyndall effect and Brownian movement with suitable diagram. [OR]
- (b) State the Gay Lussac's law of combining volumes and law of Reciprocal proportions. Explain with an illustration.
- 35) (a) (i) Give an account on phylum Annelida.
(ii) List five characteristics features of fishes. [OR]
- (b) Explain the Events of Meiosis with its diagram.

Prepared By

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