

Govt Hr Sec School Rettanai-604306

SSLC SCIENCE HALF YEARLY MODEL EXAM-2019

Time:2.30hrs

Marks: 75

Choose the correct answer

(1x12--12)

1 Magnification of a convex lens is

- a) positive b) negative c) either positive or negative d) zero

2 If a substance is heated or cooled the change in mass of that substance is

- a) increase b) decrease c) zero d) none of the above

3 SI Unit of resistance is a) mho b) joule c) ohm d) metre

4 The process of coating the surface of metal with a thin layer of zinc is called

- a) painting b) thinning c) galvanizing d) electroplating

5 Which of the following is universal solvent a) acetone b) benzene c) water d) alcohol

6 -----is used as anaesthetics a) carboxylic acid b) ether c) ester d) aldehyde

7 During transpiration there is a loss of a) CO₂ b) oxygen c) water d) none

8 which one of the following is IUCD a) copper-T b) oval pills c) diaphragm d) tubectomy

9 Paleontologists deals with

- a)embryological evidence b) fossile evidence c) vestigialevidence d) all the above

10 We can cut the DNA with help of a) scissors b) endonuclease c) knife d) RNAase

11 A renewable source of energy a) nuclear fuel b) petrol c) coal d) wind

12 All files are stored in the ----- a) folder b) box c) scanner d) pai

13 State Newtons second law of motion.

14 An electric heater of resistance 5ohmis connected to an electric source . If a current of 6A flows through the heater then find the amount of heat produced in 5minutes.

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- 15 What are the medical applications of echo?
- 16 Define relative atomic mass.
- 17 A solution was prepared by dissolving 25g of sugar in 100g of water. Calculate the mass percentage of solute.
- 18 Differentiate reversible and irreversible reaction.
- 19 What are the important of valves in the heart?
- 20 write the difference between endocrine and exocrine gland.
- 21 Write the structure of chromosome.
- 22 Match the following.
- a) CFL bulb - renewable energy
 - b) wind - CO₂
 - c) Soil erosion - energy saving
 - d) Green house gas - acid rain

Answer any seven of the following question briefly question no27 is compulsory (7x4=28)

- 23 State the universal law of gravitation and derive its mathematical expression.
- 24 What is coefficient cubical expansion?
- 25 What do you understand the term ULTRASONIC VIBRATION? Write its uses.
- 26 Explain smelting process.
- 27 What is the PH of 1.0×10^{-5} molar solution of KOH?
- 28 Will the cool drinks give more fizz at top of the hills or at the foot? Explain

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- 29 a) Write the dental formula of Rabbit. b) what does CNS stands for?
- 30 a) Name the secondary sex organ of male. b) Draw the diagram of sperm.
- 31 State the applications of DNA finger printing.
- 32 What is the role of fat in the causes for atherosclerosis?

Answer the following question briefly

(3X7=21)

- 33 a) List any five properties of light.
- b) Why does the sky appear blue in colour?
- (or)
- a) What is nuclear reactor ? Explain the parts and its functions.
- 34 a) Give the salient features of modern atomic theory.
- b) How many moles of CO₂ are there in this equation.
- (or)
- a) How is ethanol manufacture from sugarcane?
- b) Differentiate soaps and detergents.
- 35 a) Differentiate monocot and dicot root.
- b) What is respiratory quotient.
- (or)

Illustrate the structure and function of brain with neat diagram.

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