- When electric current passes through a wire, the amount of heat produced depends on its
 - (A) material and length
 - (B) length and thickness
 - (C) material and thickness
 - (D) all the above
- 39. i. Glucose $\xrightarrow{\text{with } O_2}$ $CO_2 + H_2O + E$
 - ii. Glucose $\xrightarrow{\text{without } O_2}$ alcohol + CO_2 +E
 - iii. Glucose withoutO₂ → Lactic acid +E E represents energy.

Choose the correct option.

- (A) i is anaerobic respiration.
- (B) ii and iii are anaerobic respiration.
- (C) i and ii are anaerobic respiration.
- (D) i and iii are anaerobic respiration.
- Vicuna gives us the softest coat cloth in the world. It belongs to the
 - (A) sheep family
- (B) yak family
- (C) camel family
- (D) goat family
- In FeSO₄(aq), the symbol aq stands for
 - (A) aqueous
- (B) aquatic
- (C) aquarium
- (D) acidic nature What determines the direction of heat?
- (A) pressure (B) melting point
 - (C) freezing point (D) degree of
- - hotness
- Match the following.
 - Column A

Column B

- a) lactic acid
- i) spinach
- b) tartaric acid
- ii) amla
- c) oxalic acid
- iii) curd
- d) acetic acid
- iv) unripe mango
- v) vinegar e) ascorbic acid
- (A) a b c d e (B) a b c d e iii iv ii v i iii iv i v ii

- (C) a b c d e (D) a b c d e v iv i iii ii iiii i iv v ii
- Which layer of the soil is rich in minerals?
 - (A) A-Horizon
 - (B) B-Horizon
 - (C) C-Horizon
 - (D) D-Horizon
- Nephridiopores are found in
 - (A) earthworm
- (B) kidney
- (C) cockroach
- (D) Malpighian tubules
- Choose the correct arrangement of the soil types in terms of particle size.
 - (A) sand > clay > silt
 - (B) sand > silt > clay
 - (C) clay > sand > silt
 - (D) silt > clay > sand
- Which lens is used to see distant objects?
 - (A) concave lens
- (B) convex lens
- (C) both A and B
- (D) none of the above
- The chemical formula of alum is
 - (A) $K_2SO_4Al_2(SO_4).32H_2O$
 - (B) $K_2SO_4Al_2(SO_4)_2.24H_2O$
 - (C) $K_2SO_4Al_4(SO_4).24H_2O$
 - (D) $K_2SO_4Al_2(SO_4)_2.24H_2O$
- In India, the winds spin
 - (A) clockwise
- (B) anticlockwise
- (C) both A and B
- (D) none of the above
- What happens in neutralisation reaction?
 - (A) heat is always evolved.
 - (B) heat is always absorbed.
 - (C) no heat is produced.
 - (D) heat may be produced or absorbed.

- What is the working principle of electric motor?
 - (A) interaction between two magnets
 - (B) interaction between two current carrying conductors
 - (C) interaction between heat and current
 - (D) interaction between magnet and electric current
- What type of pollination occurs in cucumber?
 - (A) self pollination
 - (B) cross pollination
 - (C) both A and B
 - (D) none of the above
- The correct order of the arrangement of RBC, WBC and blood platelets in size
 - (A) WBC<RBC<blood platelets
 - (B) blood platelets<WBC<RBC
 - (C) blood platelets<RBC<WBC
- (D) RBC<blood platelets<WBC Frogs and toads undergo
- (A) hibernation
 - (B) aestivation
 - (C) both A and B
 - (D) none of the above
- In plants, xylems and phloems are
 - (A) reproductive tissues
 - (B) conducting tissues
 - (C) respiratory tissues
- (D) all the above The function of villi is to
- (A) increase the pressure of the blood.
 - (B) decrease the pressure of the blood.

- (C) increase the surface area for absorption of the food.
- (D) increase digestion of the food.
- NaHCO_a is the chemical formula of
 - (A) baking soda
 - (B) lime water
 - (C) urea
 - (D) washing soda
- Why does not the blood clot normally within the blood vessels?
 - (A) due to the presence of haemoglobin.
 - (B) due to the presence of blood platelets.
 - (C) due to the presence of heparin.
 - (D) due to the presence of RBC.
- In North America, storms are known as (A) typhoon
 - (B) cyclone
 - (C) tornado
 - (D) none of the above
- Kangaroo rat is active in the
 - (A) morning
 - (B) evening (C) both A and B (D) night
- Coral root is an example of
 - (A) autotrophic plant
 - (B) heterotrophic plant
 - (C) parasitic plant (D) symbiotic plant
- The silk worm secretes a filament made of a ----- which solidifies upon coming in contact with air and becomes silk fibre.
 - (A) protein
- (B) carbohydrate
- (C) fat
- (D) mineral

- If glucose is found in urine, it changes the blue colour of Benedict's solution to
 - (A) green
- (B) yellow
- (C) orange
- (D) A or B or C
- Pulmonary trunk carries
 - (A) oxygenated blood and is originated from right ventricle.
 - (B) oxygenated blood and is originated from left ventricle.
 - (C) deoxygenated blood and is originated from left ventricle.
 - (D) deoxygenated blood and is originated from right ventricle.
- The distance between an object and its image in a plane mirror is p units. If the object moves forward towards the mirror by q units, then the distance between the image and the mirror is

 - (A) p-2q (B) $\frac{p+2q}{2}$

 - (C) $\frac{p-q}{2}$ (D) $\frac{1}{4}(2p-4q)$
- Match the following.
 - Colum A

Column B

i) tuber

a) garlic

ii) corm

b) potato

iii) bulb

- c) ginger
- iv) rhizome
- d) colocasia
- A) i ii iii iv b d a c
- B) i ii iii iv badc
- C) i ii iii iv c b a d
- D) i ii iii iv a c d b
- The time period of a pendulum
 - (A) increases on increasing the mass of the bob.
 - (B) decreases on decreasing the mass the

- of the bob.
- (C) increases on decreasing the mass of the bob.
- (D) does not change on changing the mass of the bob.
- Which acid is used by the goldsmiths to clean and purify gold and silver?
 - (A) sulphuric acid (B) hydrochloric acid
 - (C) nitric acid
- (D) all the above
- Choose the incorrect chemical reaction.
 - (A) $CuSO_A + Fe \rightarrow FeSO_A + Cu$
 - (B) $Mg + O \rightarrow MgO$
 - (C) $MgO + H_2O \rightarrow Mg(OH)_2$
 - (D) $CO_2 + Ca(OH)_2 \rightarrow CaCO_3 + H_2O$
- Which chamber of the ruminant stomach produces gaestric juice?
 - (A) rumen
- (B) reticulum
- (C) omasum
- (D) abomasum
- Which symbiotic association is the best way of replenishing the soil with nitrogenous nutrients?
 - (A) rhizobium and legumious plants
 - (B) rhizobium and non-leguminous plants
 - (C) fungi and leguminous plants
 - (D) algae and leguminous plants
- The layer of the forest where trees branch off from the tree trunk is called
 - (A) canopy
- (B) crown
- (C) understory
- (D) none of the above
- The wire used in the fuse is of
 - (A) high melting point
 - (B) moderately high melting point

- (C) extremely low melting point
- (D) low melting point
- Respiration in plants occurs throughout the
 - (A) day
- (B) night
- (C) both A and B
- (D) none of the above
- The enzyme rennin is produced by
 - (A) infant stomach
 - (B) adult stomach
 - (C) small intestine
 - (D) large intestine
- What is the percentage of water available on the earth in the form of solid?
 - (A) 3%
- (B) 0.01%
- (C) 2.6%
- (D) 2%
- Haemoglobin is found in
 - i) human blood ii) earthworm blood iii) cockroach blood
 - (A) i and ii
- (B) i and iii
- (C) i only
- (D) all the above
- Which lens and mirror can focus image on a screen?
 - (A) concave lens and concave mirror
 - (B) concave lens and convex mirror
 - (C) convex lens and concave mirror
 - (D) convex lens and convex mirror
- How many seconds will be there from the year 2020 to 2029?
 - (A) 315360000s
- (B) 315619200s
- (C) 315686400s (D) 315362000s
- 30. Land breeze is observed when
 - (A) the land mass is hotter than the water body.
 - (B) the water body is hotter than the land mass.

- (C) the land mass and water body are equally hot.
- (D) the land mass and water body are equally cold.
- 31. In sandy soil, the amount of clay is about
 - (A) two fifth
- (B) one fifth (D) one tenth
- (C) two third
- 32. A body covers 35m in 7 seconds. The speed of the body in km/hr is
 - (A) 18
- (B) 15
- (C) 12
- (D) 5
- Which methods of reproduction are mostly used in fruits and ornamental plants?
 - (A) stem cutting & grafting
 - (B) root cutting & layering
 - (C) grafting & layering
 - (D) all the above
- Which plant reproduces from its leaves?
 - (A) Chrysanthemum
 - (B) Strawberry
 - (C) Oxalis
 - (D) Bryophyllum
- What is the temperature below which you may be in hyporthermia?
 - (A) 25° C
- (B) 30° C
- (C) 33° C
- (D) 37° C
- Pashmina shawl is woven from the fibre obtained from
 - (A) Merino
- (B) Angora goat
- (C) Kashmiri goat (D) Angora rabbit Which of the following need a material medium for the transfer of heat?
 - (A) conduction & convection
 - (B) conduction & radiation
 - (C) convection & radiation
 - (D) all the above

27thMVII (SCIENCE)

Time Allowed 1 hour Maximum Marks: 100

Read the following instructions carefully before you begin to answer the questions.

- 1. This booklet contains 50 questions in all.
- 2. All questions are compulsory and each question carries 2 marks.
- Before you start to answer the questions you must check up this booklet and
 ensure that it contains all the pages 4 (four) and see that no page is missing
 or repeated. If you find any defect in this Booklet, you must replace it
 immediately.
- 4. There will **NOT** be any negative marking for wrong answers.
- 5. You are required to fill the information on the answer sheet which you will get in the examination hall by **H.B. pencil or BALL point pen.**
- 6. **Answer Sheet** and **Question Paper** will be supplied in examination hall. After the test is over, you should hand over the answer sheet to the invigilator before leaving the room.
- 7. You should write your **Name**, **Roll No.**, carefully on the space provided in the answer sheet. Otherwise you will be awarded **ZERO** mark.
- 8. If you wish to change your answer, ERASE completely the darkened circle by using an ERASER and then blacken the new circle. If not erased completely, smudges will be left on the erased circle and the question will be read as having two answer and will be ignored for giving any credit.
- Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- You are not allowed to leave the examination hall until you are advised to do so by the invigilator.

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