

PABSON Gaidakot
Second Terminal Examination 2080

Grade: X

Subject: Science

Time: 2hr 20 min

F.M: 60

P.M: 21

Section-A

1. Write the best option of the following questions in your answer sheet.

(9×1=9)

- a) Egg laying animal with four chambered heart and body covered with feather belongs to which class?
i) Reptilia ii) Mammalia iii) Aves iv) Amphibia
- b) Which sensory organ do honey bees primarily use for detecting scents and odours?
i) Mouth parts ii) eyes iii) stinger iv) antennae
- c) Chromosome is made of:
i) DNA and RNA ii) DNA and carbohydrate
iii) DNA and protein iv) RNA and protein
- d) The relation between weight and acceleration due to gravity is
i) $w = g$ ii) $w \propto 1/g$ iii) $w \propto g$ iv) $w = 2g$
- e) Virtual image is always
i) inverted ii) erect iii) real iv) magnified
- e) When a ship enters a river from sea, it was found to sink more than before. What is the reason for this?
i) the temperature of sea water is more than that of river water
ii) the density of sea water is more than that of river water
iii) the temperature of sea water is less than that of river water
iv)) the density of sea water is less than that of river water
- f) Which statement defines heat?
i) total kinetic energy of molecules
ii) average kinetic energy of molecules
iii) sum of kinetic and potential energy of molecules
iv) total potential energy of molecules
- g) What is A in the given chemical reaction?
 $HCl + A \longrightarrow NaCl + H_2O$
i) NaH ii) Na iii) NaOH iv) Na+H₂
- h) Baygon is an example of Insecticide.
i) termeric ii) carbamate iii) chlorinated iv) organophosphate

Section-B

(7×1=7)

2. Very short answer type questions.

- a) What is meant by fundamental quantity?
- b) What is nuptial flight?
- c) Write down the scientific name of Yarshagumba.
- d) What is heat equation?
- e) Name an acid used in fire extinguisher.
- f) State Hubble's law
- g) Name the metal extracted from haematite and bauxite ore.

Section-C

(12×2=24)

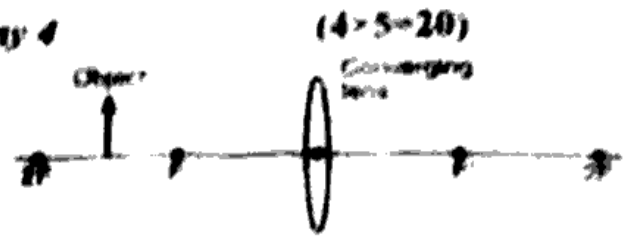
3. Short answer type questions.

- a) Shyam's mother is drying wheat under the sun and asks Shyam to shoot the bird with the help of slingshot made of a rubber band. Ram folded a piece of paper, tangled it in between a rubber band and stretched 5cm and released. But it did not reach the bird. Again when he tried by stretching it to 8cm, the paper reached the bird and flew away.
 - i) Write the relation between stretching of rubber band and the distance travelled by the paper in the above work.
 - ii) What type of variables are stretching of rubber band and the distance travelled by the piece of paper?
- b) Mention any two importance of Tulsi.
- c) Define apiculture. Mention a importance of honey bee.
- d) Differentiate between systemic and pulmonary circulation.
- e) Sexual reproduction is impossible without meiotic cell division, give reason. <https://www.nebstudy.com>
- f) Write two conditions where an object will experience zero weight.
- g) We do not get hurt when we jump with a parachute on earth surface. Why?
- h) An iron pin sinks in water but a ship made up of iron floats on it? Why? Explain.
- i) Write any two ways of increasing the amount of electricity produced by dynamo.
- j) Explain in brief about open universe.
- k) Differentiate between soap from detergent?
- l) Write the difference between calcination and roasting.

Section-D

4. Long answer type questions. Answer any 4

- a. Redraw given diagram and complete it. Also write two natures of the image formed. A man uses the spectacles of focal length 50cm, then calculate its power. The lens shown in the diagram is also said as converging lens. Why? (2+1+1+1)



b. Define CABG. Write down any 2-2-2 causes, symptoms and preventive measures of heart attack. (2+1+1+1)

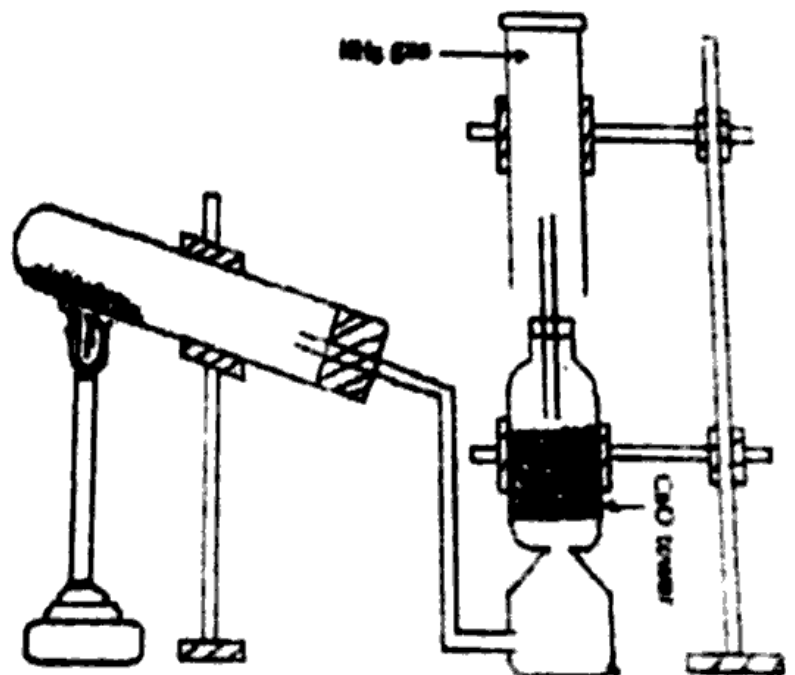
- c. Specific heat capacity of copper is $400 \text{ J/kg } ^\circ\text{C}$. what does this statement mean? 15 kg of copper ball and 5 kg of water are at same temperature of 22°C . Which substance loses more heat when both of them are cooled to 20°C ? Calculate the amount of heat lost by each.

(Specific heat capacity of copper = $400 \text{ J/kg } ^\circ\text{C}$, specific heat capacity of water = $4200 \text{ J/kg } ^\circ\text{C}$)

- d. Draw the structural formula of propane. If three -H of propane is replaced by three -OH, which compound is formed? Write down the name of that compound, molecular formula, structural formula, IUPAC name and also mention any two uses of that compound. (0.5+0.5+0.5+1+0.5+2)

e. Laboratory preparation of ammonia gas is shown in the figure.

- Write a balanced chemical equation for the reaction taking place inside the test tube.
- Mention a chemical method to test the gas present inside the test tube is ammonia gas.
- Why this gas cannot be collected by downward displacement of water?
- Why is the hard glass test tube inclined towards the mouth?
- Why is lime tower used?



<https://www.nebstudy.com>

Whatsapp @ +91-9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से