

ii. Specific heat of water

Colours of your Dreams Std.: 10 (English) Date:		<u>Science - I</u>		Marks Time: 2 ho	
Chapte	er: 1 to 10				
Q.1 (A)	Multiple Choice Questions			(5)	
i)	In India, the frequency of alternata. 100 b.50 c. 150	ting current is H	Z.		
ii)	LIGO stands for - a. Laser Interferometry Gravitation b. Light Intermissionary Gravity of c. Laser Intermissionary Gravitation d. Light Interference Gravitational	bservatory ional observatory			
iii)	Ethanoic acid with a strong base said to be	sodium hydroxide forms a	a salt and water. The reaction	is	
iv)	 a. Neutralization reaction c. Substitution reaction Which of the following process to brass vessels due to corrosion? a. plating b. anodization 	b. Organic salt-wa d. Acid degrading o be carried out to avoid to u.c. tinning u.d. alloy	reaction the formation of greenish laye	er on	
v)	Which is a property of the gases a. malleability. b. brittleness. c. high electrical conductivity. d. unlikely to react with other eler				
(B)	Answer the following question			(5)	
i)	Find the odd one out.				
•	cal/g, cal/g.°C, kcal/kg.°C, erg/g.°	°C			
ii)	Find co-related terms GSAT : Satellite ::: Sa	itellite Launch Vehicle			
iii)	Match the pair.				
	Column "A"		Column "B"		
	i. Latent heat of fusion of ice		a. 540 cal/g		

b. 0 °C

	c. 1 cal/g °C
	d. 80 cal/g

iv) State true or false.

The Principal focus of Concave lens is Virtual

v) Name the following

Name the two types of hydrocarbons.

Q.2 A) Give scientific reason. (Any two)

(4)

- i) It is recommended to use air tight containers for storing oil for long time.
- ii) Aluminium is highly reactive metal, still it is used to make utensils for cooking.
- iii) Atomic radius goes on increasing down a group.

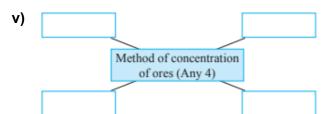
B) Answer the following questions. (Any three)

(6)

- i) Balanced equation
- **ii)** Who will spend more electrical energy? 500 W TV set in 30mins or 600 W heater in 20 mins?

iii) Answer the following question

- i) How does the short circuit form? What is its effect?



Q.3 Answer the following questions. (Any five)

(15)

- i) An iron ball of mass 3 kg is released from a height of 125 m and falls freely to the ground. Assuming that the value of 'g' is 10 m/s², calculate:
 - a. time taken by the ball to reach the ground
 - b. velocity of the ball on reaching the ground
- ii) Identify the type of heat in the following conversion of heat and define them:

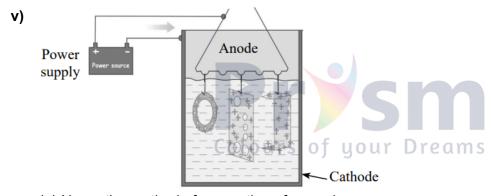


iii) Read the statements given below. Identify and write the concept upon which the given statement is based.

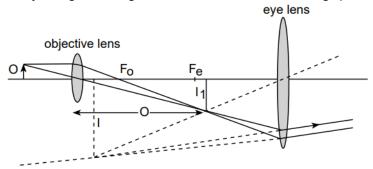
- i. Method which involved many steps to balance an equation
- ii. Equations are balanced in accordance with law
- iii. Electric current is passed through acidulated water. Which type of reaction takes place.
- iv. The Rancidity in the food stuff cooked in oil or ghee is prevented by using these. Identify.
- v. This type of reaction takes place during cellular respiration.
- vi. I am used in voters ink. Wha am I.

iv) Complete the paragragh:

(reflective index, Christiaan Huyghens, violet, Sir Issac Newton, dispersion, spectrum, red, refractive index)



- (a) Name the method of prevention of corrosion.
- (b) For prevention of which metal this method is used?
- (c) What can be used as anode?
- vi) Study the given diagram and answer the following questions:



- a. In which type of microscope do you find the lens arrangement as shown in the above diagram?
- b. Why objective lens is smaller than eye piece?
- c. Where is this type of microscope used?

- vii) Overloading of domestic electric circuits may cause fire. Suggest precautions to avoid this situation.
- viii) Saturated hydrocarbons are classified into three types. Write these names giving one example each.

Q.4 Answer the following questions. (Any one)

(5)

- i) Explain the working of astronomical telescope using refraction of light.
- ii) Observe the following graph. Considering the change in volume of water as its temperature is raised from 0°C, discuss the difference in the behavior of water and other substances. What is the behavior of water called?

