

## SUMMATIVE ASSESSMENT – I, 2016-17 SCIENCE Class – X

Time Allowed: 3 hours

Maximum Marks: 90

## General Instructions:

- (i) The question paper comprises of three Sections, A, B and C.
- (ii) All questions are compulsory.
- (iii) There is no choice in any of the questions.
- (iv) All questions of Section-A, Section-B and Section-C are to be attempted in separate answer sheets.

## SECTION-A PHYSICS

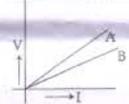
1 Mention the commercial unit of electric energy. Write its relation with Joule,

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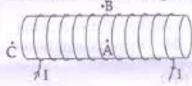
Name the part of a biogas plant where reactions take place in the absence of oxygen.

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V - I graphs for two wires A and B are shown in the figure. If both the wires are of same length and same thickness, which of the two is made of a material of high resistivity? Give justification for your answer.



- What is an electric fuse? What is its role in electric circuits? Should it be placed on neutral 3 wire or on live wire? Justify your answer.
- For the current carrying solenoid as shown below, draw magnetic field lines and giving 3 reason explain that out of the three points A, B and C at which point the field strength is maximum and at which point it is minimum.



- Mr. Kumar visited the newly built bungalow of his friend Mr. Kamat. There he observed that 3 a big solar geyser was installed on the roof. Mr Kumar told his friend that he was unable to appreciate why he was miser in spending money on installation of electric geysers in each bath-room. Mr. Kamat not only explained him the reason rather convinced Mr. Kumar too to install one in his house.
  - (a) Explain the values exhibited by Mr Kamat.
  - (b) List the advantages of solar geyser that convinced Mr. Kumar to adopt it.

Define a fuel. List any two characteristics that you would look for in a good fuel.

- State Ohm's law. Give the relationship between potential difference, electric current 5 8 and resistance of a conductor.
  - An electric circuit consisting of a 1.0 m long metallic wire AB, an ammeter, a (b) voltmeter. 3 cells of 2.0 volts each and plug key was set up. Draw a diagram of this electric circuit in the on position.

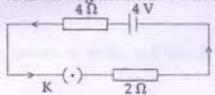
Find the resistance of an electric lamp, if the lamp uses 20 A. When connected to a 220

V line.

(a) The flow of current in a circular loop of wire creates a magnetic field at its centre. 5 9 How can the existence of this field be detected? State the rule which helps to determine the direction of this magnetic field.

(b) Name four common devices that use current carrying conductors and magnetic fields.

- With the help of a diagram describe in brief an activity to show how a moving magnet 5 10 may be used to induce an electric current in a coil. State the rule to find the direction of induced current.
  - A coil 'A' of insulated copper wire is connected to a galvanometer. What would you
    - (a) a current carrying coil 'B' is brought near to 'A',
    - (b) the strength of current in coil 'B' is changed ?
- 11 A circuit diagram is shown below.



The electric current flowing in the circuit will be:

- (a)  $\frac{2}{3}$  A (b)  $\frac{3}{3}$  A (c) 1 A (d) 6 A

- A student while measuring equivalent resistance of a parallel combination of resistance found 1 12 that voltmeter reading was 3.5 V while the current was 0.7 A. He calculated equivalent resistance to be:
  - 5Ω (b) (a)
    - 20
- 2.45 0
- (d)  $0.2\Omega$
- 13 To study ohm's law the value of electric current (I) corresponding to potential difference (V) 2 across a resistor are given below :

Potential difference (V) in volt:	0.5	1.0	1.5	2.0	2.5
Electric current (I) in mA:	10	20	30	40	50

Plot the graph between V and L (a)

Calculate the resistance of the resistor by graph.

## SECTION-B CHEMISTRY A milkman adds a very small amount of baking soda to fresh milk (a) Why does he shift the pH of fresh milk from 6 to slightly alkaline? (b) Why does this milk take a long time to set as curd? The reaction of metal 'X' with Fe<sub>2</sub>O<sub>3</sub> is highly exothermic and is used to join railway tracks. 2 Identify the metal 'X'. Write the chemical equation of the reaction. 3 Illustrate any three chemical properties of acids. Write examples. Mention two observations which you will make on heating ferrous sulphate crystal; in a 3 (a) boiling tube. On placing a zinc plate in copper sulphate solution, it was observed that the zinc plate (b) develops holes after a few days. Give chemical equation to explain this. Silver chloride turns grey when exposed to sunlight. Give chemical equation to explain it. 3 What is an alloy and how is it prepared give two examples of alloys. 5 (a) Iron is not used in its pure state. Give reason. (a) Name the acid present in each of the following foodstuffs which provides a sour taste to then: Lemon juice (1111) Vinegar (ii) (iv) (b) Why does an aqueous solution of an acid conduct electricity Explain two ways by which food industries prevent rancidity. (b) Identify the type of chemical reaction in the following statements and define each of them Digestion of food in our body (ii) Blue colour of copper sulphate solution disappears when iron filings are added to it Dilute hydrochloric acid is added to sodium hydroxide solution to form so lium chloride and water. 5 (a) Write balanced chemical equations for the following statements: 8 HCl solution is added to zinc granules. (i) Carbon dioxide gas is passed through lime water. (ii) Dilute sulphuric acid reacts with sodium carbonate. While diluting an acid what is recommended, the acid should be added to wa er or (b) water to the acid? Why?

Rama placed one drop of dilute sodium hydroxide solution on pH paper. The colour of pH paper will 1

(b)

(d)

crange

be : (a)

(c)

red

green

properties of carbon dioxide. Correct observation would be that carbon dioxide is:  (a) pale yellow in colour (b) has pungent odour (c) burns with a blue flame (d) extinguishes a burning candle  12 Raju puts an iron nail each in four test-tubes containing solutions of zinc sulphate, a usulphate, copper sulphate and ferrous sulphate. He observed a reddish brown coat not surface of the nail in the test tube which contains: (a) ferrous sulphate (b) Zinc sulphate (c) aluminium sulphate (d) copper sulphate  13 Which of the following solution is coloured? (a) ZnSO4 (b) FeSO4 (c) Al <sub>2</sub> (SO4)s (d) Na <sub>2</sub> SO4  14. You want to study a decomposition reaction by taking ferrous sulphate crystals in a tube. List two precautions you would follow while doing the experiment  SECTION-C BIOLOGY  1. Name the vein which brings blood to left atrium from lungs.  2. Give one example for each of the following: (i) Chemotropism  SUDOT \$ KOOT  3. Draw the structure of neuron and label the following parts on it: (ii) Nucleus (iii) Dendrite	a) water b) sodium bicarbonate solution c) sodium hydroxide solution	1
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(ii) Chemotropism POLLEN TUBES (iii) Phototropism SUDOT & KOOT  3 Draw the structure of neuron and label the following parts on it: (i) Nucleus (ii) Dendrite		
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(ii) Phototropism  SUDOT KOOT  Draw the structure of neuron and label the following parts on it:  (i) Nucleus (ii) Dendrite		2
Draw the structure of neuron and label the following parts on it :     (i) Nucleus	ii) Phototropism POLLLY 19963	
Draw the structure of neuron and label the following parts on it :     (i) Nucleus	Thotograpism	
(i) Nucleus (ii) Dendrite		
		3
(iii) Cell body (iv) Axon		- 2
4 Explain the term 'Nutrition'. State different modes of nutrition.	사람이 있습니다. 이 1.1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	3
5 State the source of secretion and function of the following hormones:	사용하다 가입니다. 100mm (100mm) 이 100mm (100mm) 100mm (100mm) 100mm (100mm) 100mm (100mm) 100mm (100mm) 100mm (100mm)	3
(i) Thyroxin (ii) Insulin (iii) Growth hormone	i) Thyroxin (ii) Insulin (iii) Growth hormone	
e section of the a standard was at the	11 THE 1 TO 1 THE	10.00
	The state of the s	y in 5
6 (a) What are the different pathways by which Glucose is oxidized to provide and		Set
various organisms.	this worst advantage over an advance organism does a terrestrial organism cave v	VIEN
various organisms.  (b) What advantage over an aquatic organism does a terrestrial organism i a		
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The colour of light in which rate of photosynthesis is minimum: (a) Red Green (c) (d) Yellow In the experimental set up of respiration by germinating seeds, if the gas that is evolved is 1 8 passed through lime water, the change that will be observed is : Lime water becomes yellow (b) Lime water turns milky Bubbles are seen in lime water Lime water becomes hot Record your observations when a stained and mounted leaf peel is viewed by you under low 2 power (10×) microscope.