OHOOL

16 September 2016

SUMMATIVE ASSESSMENT - I, 2016-17 Class - IX SCIENCE

Time Allowed: 3 hours

Maximum Marks: 90

General Instructions:

- attempt both the sections The question paper comprises of two Sections, A and B. You are to
- All questions are compulsory
- 3. All questions of Section-A and all questions of Section-B are to be attempted separately.
- Question numbers 1 to 3 in Section-A are one mark questions. These are to be answered in one word or in one sentence
- are to be answered in about 30 words each. Questien numbers 4 to 6 in Sections-A are two marks questions. These
- are to be answered in about 50 words each Question numbers 7 to 18 in Section-A are three marks questions. These
- Question numbers 19 to 24 in Section-A are five marks questions. These are to be answered in about 70 words each.
- select one most appropriate response out of the four provided to you. based on practical skills. Each question is a one mark question. You are to Question numbers 25 to 33 in Section-B are multiple choice questions
- Question numbers 34 to 36 in Section-B are questions based on practical skills. Each question is of two marks.

downwards,	3. When the m	(i) Odometer	2. What do the f	A. State the loca	
downwards, and balloon moves upwards. Identify action and reaction in this	3. When the mouth of a balloon filled with air is untied, the air releases	er (ii) Speedometer	2. What do the following devices measure in a car?	State the location of genes in the cell.	0000000
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- List two points of difference between homogeneous and heterogeneous mixtures N
- On Explain an activity to show that, during a free fall heavier and lighter objects accelerate at the same rate Describe the process of shrinking of a cell on being put in a strong salt solution N N
- Why the following are called chemical changes? Burning of wood

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- 3 1 Rusting of iron Digestion of food

(ii) Masses of both the objects are doubled. (iii) Masses of both the objects are doubled. (iv) Masses of both the objects are doubled. (iv) Masses and the term acceleration. State an example of uniformly accelerated motion. A train starting from stationary position and moving with uniform acceleration at the states of the second position. (iv) Masses applied to a car produce an acceleration of 6 ms-2 in the opposite brakes, calculate the distance it travels during this time. (iv) Askanksha's mother had grown vegetabels like bottle gourd, capsicum bitter gourd and tomatoes inside the fencing of her home. One morning while she was busy in her work she asked Aakanksha to water the plants but Aakanksha was busy in her work she asked Aakanksha to water the plants but Aakanksha was busy in her work she asked Aakanksha to water and soil. Deficiency of these nutrients affects growth and susceptibility to diseases. (iii) Name the nutrients supplied by air and water to the plant. (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) What are macro nutrients and why are they called so? (iv) A call the plant and macro nutrien	8. Explain the process of sublimation with the help of a diagram. A solution contains 110g of salt in 440g of water. Calculate concentration of solution in terms of mass by mass percentage. Also state whether this solution is saturated or unsaturated. What is the fundamental unit of life? Who discovered it? How can they be observed? The Newton's second law of motion is often seen in action in our everyday life. Give three experiences of your own. Give three experiences of your own.
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24 23 22 28. 0 Answer the followings : È 0 É 3 Explain the following phenomena on the basis of Newton's Laws of Motion: and water, to test the presence of metanil yellow. The colour of the solution What is the basis of crop selection in intercropping and crop rotation ? Write velocity of the other ball velocity of the ball of mass 200g after collision becomes 1.165 ms -1, find the velocities 2 ms -1 and 1 ms -1 respectively collide with each other. If the Two balls of masses 100g and 200g moving in the same direction with State the law of conservation of momentum. Express it mathematically A substance 'X' was added to the test tube containing a mixture of arhar dal When iron filings and sulphur powder are taken in china dish, mixed properly Stored form of Carbohydrates in plants generally are 0 changed to magenta. 'X' is : the advantages of these two types of cropping patterns. 0 (a) (a) 3 Why do we feel cool when we sit under fan during summer? Write two functions of adipose tissues. Define evaporation and explain the role of speed of wind at the rate of Cell phone breaks into pieces on falling from a table Name the constituents of phloem tissues Shattering of car windows due to a bomb blast. Falling of buildings during an earthquake. Name the tissue that: State two differences between tendon and ligament. Write the specific function of cardiac muscle evaporation. conc. nitric acid conc. sulphuric acid Amino acids Vitamins forms the inner lining of our mouth forms the soft parts of leaf, stem, roots and fruit. SECTION - B 0 0 0 Starch conc. sodium hydroxide Glycogen 9 conc. hydrochloric acid Ġ 5

IX / Science

and heated strongly then

(a)

an element is formed

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State one important precaution for this experiment.	Write the formula for determining the percentage of water absorbed by raisins ?		for determining the melting point of ice? What is the correct position of the	effects? Explain.	solution? Can we see them with naked eyes? How do they show Tyndall	Milk is a colloidal solution. Are the particles uniformly spread throughout the	(a) weight (b) mass (c) acceleration (d) range	spring balance. These measure the :	While doing experiment the students observed the reading of the scale on the	(d) water vapours	(a) ammonium chloride	On sublimation of ammonium chloride, salt and iron-filings, the component	(c) adipose (d) tendon	(a) nephron (b) neuron	cells of this tissue are called:	(d) Methy d and nerves are all comp	(a) Methyl orange (b) 'Safranin	viruse preparing temporary mount the reagent used to stain animal cell	(c) write (d) green	yellow	The colour of anhydrous copper sulphate is:	(c) neitner (a) nor (b) (d) both (a) and (b)	(a) by dissolving sulphur in carbon disulphide	The method used to separate sulphur from the mixture of iron filings and sulphur powder is:		(c) a homogeneous mixture is formed

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