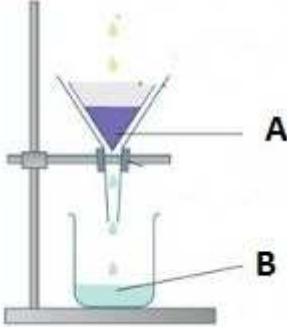


Summative Assessment - 1 (2014-15) Science (Set – A) AK Class: VI

Section - A

1	<p>List two factors on which balance diet of a person depends upon.</p> <p>1. Age , 2. Sex of the individual, 3. Occupation 4. Special needs like pregnancy (any two) (1/2+1/2)</p>	1
2	<p>Draw a labelled diagram to show the reflection of light by a plane mirror</p> <p>Diag (1)</p>	1
3	<p>List the part of the plant from which the following fibres are obtained:</p> <p>a) Cotton fibre-Cotton balls/seeds/fruits (1/2)</p> <p>b) Jute fibre-Stem(1/2)</p>	1
4	<p>What happens to the shadow formed on a screen when:</p> <p>(i) the distance between the source of light and the object increases and</p> <p>(ii) the distance between the object and the screen increases.</p> <p>(i)size of the shadow decreases(1)</p> <p>(ii) size of the shadow increases(1)</p>	2
5	<p>Name the minerals required by our body for:</p> <p>a) Formation of thyroxine hormone.</p> <p>b) Transmission of nerve impulse.</p> <p>c) Formation of strong bones and teeth.</p> <p>d) Formation of haemoglobin.</p> <p>Ans. Iodine, sodium, calcium, iron (1/2+1/2+1/2+1/2)</p>	2
6	<p>Give a suitable method to separate the components of the following mixture and state the principle behind the method used:</p> <p>a) Husk from wheat grains.</p> <p>Winnowing (1/2). Lighter particles will be carried by wind while heavy particles fall down(1/2)</p> <p>b) Pebbles and stones from sand.</p> <p>Sieving (1/2). Difference in the size of the particles (1/2)</p>	2
7	<p>Write two characteristics of the image formed in a pin hole camera along with the labeled diagram for it.</p> <p>Two characteristics(1/2+1/2). Diagram(2)</p>	3
8	<p>Rohan observes his image in a plane mirror .</p> <p>a) State two characteristics of the image formed in a plane mirror.</p> <p>b) State one way in which the image in the plane mirror differs from Rohan.</p> <p>A) lateral inverted/distance /size/details of object (any two)(1+1)</p> <p>B)lateral inverted (1)</p>	3
9	<p>Give the scientific term associated with the following:</p> <p>a)Change in the position of an object with respect to time or surroundings. Motion(1/2)</p> <p>b)Type of motion along a curved line. Curvilinear motion(1/2)</p> <p>c)Circular movement in which the body moves about an axis. Rotatory(1/2)</p> <p>d)The to and fro motion of a pendulum. Oscillatory/periodic (1/2)</p>	3

	<p>e)The movement of a car on a crowded road. Non periodic(1/2)</p> <p>f)Repetitive movement which takes place at equal intervals of time. Periodic(1/2)</p>	
10	<p>a)While measuring the length of a paper clip on a scale, the reading at one end is 1 cm and at the other is 4.3 cm. What is the length of the paper clip? Length=4.3-1=3.3cm(1)</p> <p>b)The length of a book rack is 2.15 m. Express this length in: (i) cm Conversion with ans 215cm(1/2+1/2) (ii) mm.Conversion with ans 2150mm(1/2+1/2)</p>	3
11	<p>Give reasons for the following:</p> <p>a)We cannot drink milk in a tumbler made up of a cloth. As it has pores in it through which milk can leak.(1)</p> <p>b) The lenses of spectacles are always made from plastic or glass. As we can see clearly through them/transparent .(1)</p> <p>c) Handles of utensils are made up of plastic. As it is poor conductor of heat so that we can hold the utensil while cooking.(1)</p>	3
12	<p>Observe carefully the diagram given below and answer the questions that follow:</p>  <p>a) Define the process shown above in the diagram. Definition of filtration(1)</p> <p>b) Label the substance A and B. A-Residue/filter paper (1/2) B-Filterate (1/2)</p> <p>c) Write any two substances that could be separated by this process. Any two substance(1/2+1/2)</p>	3
13	<p>The material “A” obtained from an animal’s skin is converted into “B” by a process “C”. “B” is then made into a sweater by the technique “D”. What are “A”, “B”, “C” and “D”? Define the process “C” and “D”.</p> <p>A-wool fibres(1/2) B-Wool yarn(1/2) C-Spinning(1/2) D-Knitting(1/2) Definition of R and S(1/2+1/2)</p>	3
14	<p>Explain three adaptations found in a fish that help it to swim easily in water.</p>	3

	<p>a) swim bladder to rise or sink in water</p> <p>b) fins to keep direction and maintain balance of body</p> <p>c) streamlined body to reduce resistance offered by water (1+1+1)</p>	
15	<p>a) Define a skeleton? Write its two functions.</p> <p>b) Differentiate between bone and cartilage.</p> <p>Def(1) func: give shape to body, protect vital organs. (1+1)</p> <p>Diff hard & soft (1)</p>	2+ 1
16	<p>Give reasons for the following:</p> <p>a) Snake moves by turning its body into several loops.</p> <p>b) A child has approx 300 bones but an adult skeleton is made up of 206 bones</p> <p>c) Long bones of the skeleton in human beings have bone marrow.</p> <p>ans. A) each loop provide forward thrust by pressing against the ground thus it can move easily</p> <p>b) bones fuses together and no. become less</p> <p>c) because bone marrow produces blood cells (1+1+1)</p>	3
17	<p>Sita is suffering from continuous bleeding of gums. Her friend, Gita notices it and suggests her to have food items rich in calcium as she might be suffering from its deficiency.</p> <p>a) Write any two qualities possessed by Gita?</p> <p>b) List any two food items that should be eaten by Sita to overcome her deficiency.</p> <p>c) Give any other two examples of deficiency diseases.</p> <p>a) Helpful, caring(1/2+1/2)</p> <p>b) Milk, curd, any two(1/2+1/2)</p> <p>c) Goitre, scurvy etc. (1/2+1/2)</p>	3
18	<p>“ Water plays a vital role in our body”. Justify this statement by giving any three functions of water in our body.</p> <p>Functions (1+1+1)</p>	3
19	<p>a) Ram bought a polyester shirt and a terycotton shorts and kept them in a jute bag. Classify the given fibres into three different categories and define each category.</p> <p>b) What is retting? Why is it done?</p> <p>a) Explanation of natural, synthetic and mixed fibres (1+1+1)</p> <p>b) The process of immersing jute fibres into standing water (1/2), so that bacteria eats the gummy matter binding fibres is retting (1/2). It is done to loosen jute fibres so that they could be extracted out easily (1)</p>	5
20	<p>a) Explain three ways of disposal of garbage.</p> <p>b) What is biodegradable waste? Give an example and write the colour of the dustbin meant for throwing biodegradable waste.</p> <p>a) Explanation of landfill, composting, vermicomposting or incinerator (1+1+1)</p> <p>b) The waste that can not be broken down into simpler substances (1/2), by microorganisms (1/2), eg – plastic, colour – blue. (1/2+1/2)</p>	5

21	<p>a) Explain how a plane mirror is made?</p> <p>b) Sita is standing 5 m away from the plane mirror. Then she moves 2 m towards the mirror. Find out the distance between her and her image.</p> <p>reason – Distance between object and mirror is same as that of image and mirror.</p> <p>Explanation of formation(3)</p> <p>Distance of sita from mirror-3cm</p> <p>Distance of her image from mirror-3cm</p> <p>Distance between her and her image-3+3=6 cm</p>	5
22	<p>a)Raj wants to measure the length of table using a scale. But he does not know what all precautions should be taken while using the scale. Explain any three precautions.</p> <p>b) What is measurement? You are given a bed to measure its length. Which one will you use-measuring tape or hand span and why?</p> <p>A)Explanation of three precautions(1+1+1)</p> <p>B)Definition(1).measuring tape(1/2) reason(1/2)</p>	5
23	<p>What are joints? Describe four types of movable joints in human body.</p> <p>Def (1), explanation of ball and socket joint, pivot joint, hinge joint, gliding joint (1+1+1+1)</p>	5
24	<p>a) Explain an activity to check the presence of protein in boiled rice.</p> <p>b) State two practices which leads to loss of nutrients while cooking.</p> <p>Ans. A) Aim (1/2), material required (1/2) procedure (1) , observation (1/2), result (1/2)</p> <p>B) Repeated washing of dals and rice causes loss of water soluble vitamins.</p> <p>If cooking is done at a high temperature than many proteins and minerals get destroyed (1+1)</p>	5
<u>Section - B</u>		
25	<p>Excess loss of water from the tissues has occurred in Ram's body. Which disease is he suffering from? Write any one cause which results in this condition.</p> <p>Diarrhoea. vomiting(1/2+1/2)</p>	1
26	<p>Which vitamin is produced in the human body when it is exposed to sunlight? Write a rich source of this vitamin.</p> <p>Vitamin D. Any one source(1/2+1/2)</p>	1
27	<p>How many bones are present in human skull? Name the movable bone in the skull.</p> <p>8, lower jaw (1/2+1/2)</p>	1
28	<p>What is the colour of the shadow formed if red colour object is viewed in green light?</p> <p>Black(1)</p>	1
29	<p>If you and your friend are given the choice of eating food either on a plastic plate or a banana leaf, which one would you prefer and why?</p> <p>Banana leaf as it can be decomposed by micro organisms in simpler substances(1/2+1/2)</p>	1
30	<p>Raj added 5 spoons of sugar and got a saturated solution. What will happen to the solubility if he heats the solution?</p>	1

	It will increase(1)	
31	Multiple motions are exhibited by the Earth. List any two motions exhibited by the Earth. Rotatory/Circular/Periodic(1/2+1/2)	1
32	Sheeba wants to measure the length of a curved line but he is unable to do it with a metre scale. Suggest her any one way to measure it. Using a thread or a pair of divider.(1)	1
33	In order to check the density of the substance with respect to water, Ram puts wood and a coin into the tumbler of water. Which of the above given two things will float on water and why? Wood , being less denser(1/2+1/2)	1
34	Ram's bathroom window pane was broken by accident.he wants to fix it again.write the type of glass he should fix. Support your answer with a reason. Frosted glass as it is translucent as visibility will not be there through it.(1+1)	2
35	One day Akshi dreamt that her cotton shirt was talking to her. It was telling its life story-from the cottan plant to becoming a shirt. It took four steps for the process. List these steps. Ginning, spinning, weaving, sewing (1/2+1/2+1/2+1/2)	2
36	a) One end of the ribs is joined to the backbone and the other end is joined to bone "A" in front. Identify the bone "A". A pair of bone "B" are found at the end of the rib cage which are attached only to the back bone. Identify "B". b) Name the two organs which are protected by ribcage. a)A sternum, B floating ribs (1/2+1/2) b) Lungs and heart (1/2+1/2)	2