

**ITL Public School**

**Summative Assessment - 1(2015-16)**

**Science Marking scheme (Set -A)**

**Date:**

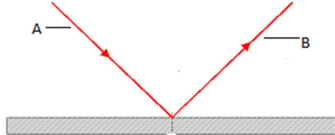
**Class: VI**

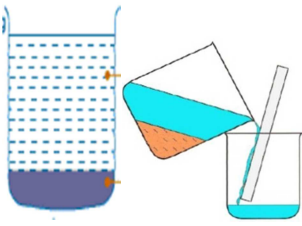
**Time: 3 hrs**

**M. M: 90**

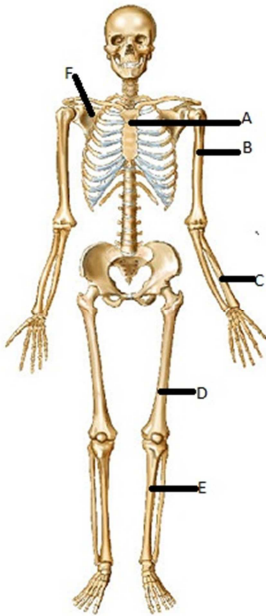
*General Instructions:*


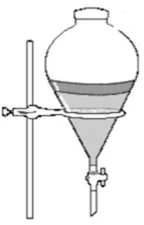
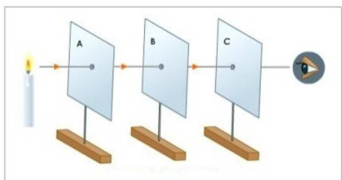
1. Marks are indicated against each question.
2. Read all questions carefully.
3. All questions are compulsory.

1	<p>What is the term used for the distance between the tip of the thumb to the tip of the little finger of a stretched open hand? <b>Handspan(1)</b></p>	1				
2	<p>Fat rich foods provide energy to the body. Then why is it advised not to eat too much of fried food? <b>It leads to obesity(1)</b></p>	1				
3	<p>What is sericulture? <b>Rearing of silkworm on a large scale to obtain silk.(1)</b></p>	1				
4	<p>a)Which process is shown in the diagram given below.</p>  <p><b>Reflection(1)</b> b)Name A and B. <b>A-Incident ray(1/2)      B-reflected ray(1/2)</b></p>	2				
5	<p>a)Segregate the following items under the given headers: Chair, plastic, wood , pen</p> <table border="1" data-bbox="539 1294 1034 1518"> <thead> <tr> <th>MATERIAL</th> <th>OBJECT</th> </tr> </thead> <tbody> <tr> <td>Plastic wood</td> <td>Chair Pen</td> </tr> </tbody> </table> <p>(1) b) What is the above process known as? <b>Classification(1)</b></p>	MATERIAL	OBJECT	Plastic wood	Chair Pen	2
MATERIAL	OBJECT					
Plastic wood	Chair Pen					
6	<p>a)What kind of garbage is used for composting? <b>Biodegradable(1)</b> b)Give two examples of such garbage. <b>Vegetable peels,newspaper(1/2+1/2)</b></p>	2				
7	<p>a)Explain the process of making a plane mirror from a sheet of glass. <b>1. take a glass sheet.(1/2)</b> <b>2. Put silver colour on one side(1/2) as it is the best reflector.(1/2)</b> <b>3.Put the red paint (1/2)behind the silvered surface for its protection. (1/2)</b> b)What is the nature of the image formed by plane mirror? <b>Erect(1/2)</b></p>	3				
8	<p>Differentiate between image and shadow on the basis of:</p>	3				

		<b>Image</b>	<b>Shadow</b>	
	<b>Color</b>	<b>Same as that of object(1/2)</b>	<b>Black(1/2)</b>	
	<b>Formation</b>	<b>Due to reflection of light(1/2)</b>	<b>Due to obstruction of light by an opaque object(1/2)</b>	
	<b>Size</b>	<b>Same as that of object(1/2)</b>	<b>Varies)(1/2)</b>	
9	<p>While measuring the length of a knitting needle, the reading on the scale at one end is 3 cm and at the other end is 33.1 cm.</p> <p>a)What is the length of the needle?  <b>(33.1-3)cm=30.1cm (1)</b></p> <p>b)Convert the length obtained in metres.  <b>1m=100cm (1/2)</b></p> <p><b>30.1/100m (1/2)</b>  <b>=0.301m (1/2)</b></p> <p>c)Which precaution might have been used in this case while taking the measurement?  <b>Worn out edges (1/2)</b></p>			3
10	<p>Identify the processes shown in fig. 'A' and 'B'. Also define them.</p> <div style="text-align: center;">  <p>Fig. A                      Fig. B</p> </div> <p><b>A-Sedimentation-Settling of sand(1/2+1)</b>  <b>B-Decantation-pouring out clear liquid(1/2+1)</b></p>			3
11	<p>Give reasons for the following:</p> <p>a)Handles of utensils are made of plastic.  <b>Plastics are insulators. (1)</b></p> <p>b)Wood and plastics float on water.  <b>Their density is less than water. (1)</b></p> <p>c)Oil and water form different layers when mixed.  <b>They are immiscible liquids. (1)</b></p>			3
12	<p>Plastics are necessary evils. Give three points</p> <p>a) in favour of and  <b>(i) Cheap (1/2*3)</b>  <b>(ii) durable</b>  <b>(iii) light in weight</b></p> <p>b) against the use of plastics.  <b>(i) On burning cause air pollution (1/2*3)</b>  <b>(ii) Chokes respiratory tract of animals when swallowed along with food.</b>  <b>(iii) Blocks drainage system.</b></p>			3
13	<p>Explain any three features of birds that help it to fly.  <b>3 features 1*3</b></p>			3
14	<p>Rani was suffering from spongy and bleeding gums.Her friend Raj advised her to eat lots of citrus fruits as she might be suffering from deficiency disease.</p> <p>a)What are deficiency diseases?  <b>Diseases that are caused due to lack of some nutrients(1/2) from the diet for a long time.(1/2)</b></p> <p>b)Which deficiency disease she might be suffering from?Give another example of deficiency disease.  <b>Scurvy(1/2). Beri-beri(1/2)</b></p> <p>c)What values of Raj are shown by this?(Any two)  <b>Intelligent(1/2) Concern for his friend(1/2)</b></p>			3

15	<p>a)How do muscles control the movement of our arm?  <b>When we bend our arm,biceps contract(1/2) and become shorter and thicker and pull the bone up (1/2)and the triceps relax and become longer and thinner.(1/2)</b>  <b>When we straighten our arm, triceps contracts and and pulls our bone down(1/2)</b></p> <p>b)Give one example of voluntary and involuntary movements.  <b>Voluntary movements-Raising our hands (1/2)</b>  <b>Involuntary movements-Beating of heart (1/2)</b></p>	3
16	<p>Sheena wants to prepare lemonade. So she dissolves sugar in water, but she observes after certain time that no more sugar is dissolved and sugar starts settling down.</p> <p>a)What type of solution is prepared in the above case?  <b>Saturated(1)</b></p> <p>b)Also predict what will happen if the above solution is heated?  <b>It will become unsaturated(1)</b></p> <p>c)Why is water known as the universal solvent?  <b>It can dissolve most of the solutes(1)</b></p>	3
17	<p>Explain how 3R's help in reducing generation of waste.</p> <p><b>Reduce-reduce the amount of waste by consuming and throwing less. One example(1/2+1/2)</b>  <b>Reuse-Reusing of items to reduce waste. One example(1/2+1/2)</b>  <b>Recycle-Making useful things from waste material. One example(1/2+1/2)</b></p>	3
18	<p>a) Why were ancient units of measurement replaced by SI units?  <b>To bring uniformity and convenience in measurements.(1)</b></p> <p>b) Give the SI unit of the following:  i)lengthmetre (1*2)  ii)masskilogram</p>	3
19	<p>a)Ram was standing 10 cm away from a plane mirror. He went 4 cm towards the mirror.  i)Find the distance between Ram and mirror.  <b>Distance between Ram and mirror=(10-4)cm=6cm (1/2)</b>  ii) find the distance between Ram and his image.  <b>Distance between Ram and mirror=distance between mirror and image (1/2)</b>  <b>Therefore, distance between image and mirror=6cm (1/2)</b></p> <p><b>Distance between Ram and his image=6+6=12cm (1/2)</b></p> <p>c) Ram was finding his shadow in a dark room but could not find. Suggest him three necessary conditions that are required for the formation of shadow.  <b>A source of light(1*3)</b>  <b>An opaque object</b>  <b>A screen.</b></p>	5
20	<p>a)Write the proper terms for the following:(1/2*6)</p> <p>i)change in the position of a body.<b>motion</b>  ii)the motion of a car on a crowded place.<b>non periodic</b>  iii)repetitive motion which takes place at equal intervals of time.<b>periodic</b>  iv)the to and fro motion of a pendulum <b>oscillatory</b>.  v)motion along a curved line.<b>curvilinear</b>  vi)circular motion in which a body moves about an axis.<b>rotatory</b></p> <p>b)Compare revolution and rotation.  <b>Comparision(1+1)</b></p>	5
21	<p>a)Identify A,B,C,D in the given below diagram.</p> <p><b>A-glass rod B-Beaker C-Funnel D-Filterate 0.5*4</b></p> <p>b)Name the process shown in the diagram given above.  <b>Filtration(1/2)</b></p> <p>c)Write the principle behind this process.</p>	5

	<p><b>Insoluble solid particles should be present in liquid(1)</b></p> <p>d)Give an example of a mixture that can be separated using this method. <b>Muddy water(1/2)</b></p>	
22	<p>a)Write any two merits of synthetic fibres over natural fibres. (i)<b>They are cheaper (1/2*2)</b> (ii)<b>They don't get wrinkled easily.</b></p> <p>b)Classify the following as natural or synthetic fibres: i)cotton<b>Natural (1/2*4)</b> ii)polyester<b>Synthetic</b> iii)acrylic<b>Synthetic</b> iv)silk<b>Natural</b></p> <p>c)Name two devices that are used to convert fibres into yarn. <b>Spindle and spinning machine (1/2*2)</b></p>	5
23	<p>a)Identify A,B,C,D,E and F in the following diagram:</p>  <p><b>A-Sternum B-humerus C-Radius D-Femur E-Tibia F-Shoulder girdle (1/2*6)</b></p> <p>b)Name two body parts which have:(1/2*4) (i)Fixed joint- <b>Skull</b> (ii)Gliding joint.<b>Ankle</b></p>	5
24	<p>a)Write an activity to show the presence of starch in rice. <b>Aim(1/2)</b> <b>Materials required(1/2)</b> <b>Procedure(1/2)</b> <b>Observation(1/2)</b> <b>Conclusion(1/2)</b> <b>Diagram(1/2)</b></p> <p>b)Justify the following statements: i)It is considered to give a protein rich diet to a pregnant women and persons recovering from illness. <b>As protein is a body building food(1/2) so helps in growth and repair of the body.(1/2)</b> ii)Vegetables and fruits should not be washed after cutting or peeling. <b>As it leads to loss of water soluble nutrients.(1)</b></p>	5
25	<p>When we raise our right hand in front of a plane mirror, our image raises its left hand. What is this phenomenon known as?</p>	1

	<b>Lateral inversion (1)</b>	
26	Suggest one method to measure the length of a curved line. <b>Using thread (1)</b>	1
27	Bees move from one flower to another in search of nectar. What kind of motion is possessed by bees? <b>Random motion(1)</b>	1
28	Ram has got a job as a chef in a hotel. Which kind of fibre should he wear while cooking the food? <b>Natural fibre(1)</b>	1
29	You have been given a mixture of iron fillings and sand. How can you separate the components of the mixture? <b>Magnetic separation(1)</b>	1
30	Objects made up of metals like iron, copper, etc lose their shine after sometime. Give reason. Due to action of air and moisture (1)	1
31	Rahul had a fractured bone of leg after an injury. How was the doctor able to detect the fracture in bone? By X ray image	1
32	Why the burning of leaves has been banned by the government? <b>It causes air pollution</b>	1
33	Redworms are added to compost to fasten the process. Name the structure used by them to digest food. <b>Gizzard(1)</b>	1
34	a)Identify the following.  <b>Skull(1)</b> b)How many bones are present in this? <b>22(1/2)</b> c)Name the movable part present in this. <b>Lower jaw(1/2)</b>	2
35	a)Name the process shown in the given diagram.  <b>Separating funnel(1)</b> b)Name the mixture that can be separated by this process. <b>Two immiscible liquids(1)</b>	2
36	a)Name the property of light shown in the given diagram.  <b>Rectilinear propagation of light(1)</b> b)Define the property. <b>Light travels in a straight line.(1)</b>	2

