## Marking Scheme Summative Assessment - 1 (2014-15) Science(Set -A)

## Date:

Class: VII

Time:3 hrs

M. M: 90

General Instructions:

- 1. There are two sections in this paper. Section A contains Q 1-24 & section B containsQ25-36.
- 2. Marks are indicated against each question.
- 3. Read all questions carefully.
- 4. All questions are compulsory.

## Section A

1			1
	By the help of stomata		
2	When is world water day celebrated? Why is	it celebrated?	1/2+1/2
	22 March, to make people aware and to ed	lucate people about conservation of water	
3	What is the normal body temperature in Fahr	enheit scale?	1
	<b>98.4</b> <sup>0</sup> F (½ ma	rk for value, ½ mark for unit)	
4	What are pseudopodia? How do they help the	e amoeba?	2
	Finger like structure 1		
	Keep changing shape for locomotion 0.5		
	By engulfing the food 0.5		
5	Given below are some examples of physical	change. Identify the property which gets changed	2(1+1)
	in each of them.		
	Physical Change	Property which gets changed	
	E.g. Breaking Glass	Shape	
	(i) Cloud forming in the sky	state	
	(ii) Heating of iron nail till it is red hot	color	
6	Name the following : $1/2 * 4 = 2$		2
		ar that shows the distance moved by car.	
	Odometer		
	b. Standard unit of time second		
	<b>c.</b> Scientist who discovered the simple p		
	d. Number of oscillations per second of		
7	Discuss the role of the following in the proce	ess of digestion	3
	a. Hydrochloric acid in stomach		
	kill germs, makes the medium acid	ic $\frac{1}{2} + \frac{1}{2}$	
	b. Saliva in the mouth.		
	Makes the food soft and sticky, star	cch into simple sugars $\frac{1}{2} + \frac{1}{2}$	
	c. Bile juice in the intestine		
0	Digestion of fats 1	1 11 4 41 4 4 1 61 1 4	2(1 + 1 + 1)
8	•	l grills reacts with air to get a brown flaky coating	3(1+1+1)
	easily. a. Name the element A		
	<b>iron</b> b. Write the reaction of A with air becau	use of which it gots the flaky costing	
		ise of which it gets the flaky coating.	
	Iron +air gives us rusted iron	can be prevented	
	c. Write any two ways in which rusting <b>Painting</b> , galvanizing 0.5 + 0.5	can be prevented.	
9		clinical thermometer and laboratory thermometer.	3
,	any 3 $1+1+1$	ennear mennometer and faboratory mennometer.	5
10	Give an appropriate term for the following:		3
	a. A saprotrophic plant.		-
	Fungi ,yeast ,mushroom (any one)	1	
	b. Pigment found in the green parts of the		

	Chlorophyll 1	
	c. Bacterium found in the root nodules of leguminous plant.	
	Rhizobium 1	
	d. An edible fungus. <b>Mushroom 1</b>	
	e. Substance used to test the presence of starch in leaves.	
	Iodine 1	
	f. Slimy green patches found in ponds or stagnant water.	
	Algae 1	
11	"Planting of trees helps to cool Earth" Justify this statement giving three reasons.	3(1+1+1)
	Rain, hold the soil, atmosphere cool due to increase in transpiration	
12	A car travels with a speed of 30km/hr for 30 minutes and then with the speed of 50km/hr for another 30	3
	minutes. Calculate the following:	
	a. Total distance travelled by the car	
	b. Average speed of the car	
	speed = dist / time $\frac{1}{2}$	
	$30\min = \frac{1}{2} \ln r$ $\frac{1}{2}$	
	$d1 = 30 \times 1/2 = 15 \text{ km}  \frac{1}{2}$	
	$d2 = 50* 1/2 = 25 \text{ km} \frac{1}{2}$	
	Total dist= $d1+d2 = 40 \text{ km} \frac{1}{2}$	
	avg speed = total dist/ total time	
	$=40/1, 40$ km/hr $\frac{1}{2}$	
13	With reference to the organism Lichens answer the following:	3
	a. Name the two partners of this association.	
	Algae and fungi 0.5+0.5	
	b. Name the association found between them.	
	Symbiosis or mutualism 1	
	c. How do the two partners benefit each other?	
1.4	Algae makes food and fungi provides shelter and water 0.5+0.5	
14	a. Give one method in which rain water is harvested in a traditional way.	3(1+2)
	Bawris	
	b. Suggest any two methods that can help to save water in modern age.	
	Rain water harvesting, drip irrigation	
15	Explain the formation of sea breeze with the help of a well labeled diagram.	3
	Unequal heating and cooling of water <sup>1</sup> / <sub>2</sub>	
	During daytime $\frac{1}{2}$ , warm air above land rises $\frac{1}{2}$ , cool air moves from the sea towards land $\frac{1}{2}$ .	
16	Diag 1 Give reason for the following:	3
10	e e	5
	a. An athlete breathes faster and deeper after finishing the race.	
	Take in more oxygen and break down of lactic acid 0.5+0.5	
	b. The skin of earth worm is moist and slimy.	
	It breathes by skin 1	
	c. We should cover our mouth and nose during sneezing.	
	Foreign particles and dust may not be inhaled by others 1	
17	There are many stages in the life cycle of a silk moth. Draw and explain briefly the life cycle of	3(2+1)
	a silk moth.	
	Eggs, larva , cocoon, adult <sup>1</sup> / <sub>2</sub> mk for writing about each stage	
	1 mk for Diagram	
18	What would be the nature of motion of a vehicle whose distance time graph is:	3
	a. If the graph is a straight line- <b>uniform motion</b>	
	b. If the graph is a curved line <b>non uniform motion</b>	
	c. If the graph is a straight line parallel to time axis- <b>no motion</b> / <b>vehicle is at rest</b>	
19	a)Write one similarity and one dissimilarity between aerobic and anaerobic respiration.	5(2+3)
19	Both use glucose as raw mat ./ both give energy 1	3(2+3)
	$O_2$ used / in absence of $O_2$ or high energy vs low energy output 1	
1	O2 useu / in absence of O2 of high energy vs low energy output 1	

Sl.no.       Changes       Inhalation       Exhalation         1       Movement of ribs       Outward/upward       Inward / downwards         2       Movement of diaphragm       Downward       Upward/back to original position         3       Size of lungs/chest cavity       Expand/enlarged       Contract/ relax/reduces in size         20       a. Answer the following questions : 1 mark each       in size       5         i. Female silk moth is kept in separate bags.       Disinfectant is sprayed       5         ii. Raw silk is twisted before dyeing.       Makes the fiber stronger and more tensile       5         iii. Working in wool industry is hazardous to health.       Causes skin diseases       5         b. Write any two physical properties of wool.       It is resistance to stress and durable       5         21       A car starts its journey from Delhi at 9:00am. It reaches its destination at 11:00 am. The distance covered by the car at various time intervals are as follows:       5         21       Distance 0       50       100       150       200         (Km)       9:00       9:30       10:00       10:30       11:00         a. Draw a distance- time graph for the given data 1½ mk for proper straight line graph       b. Mention the scale for distance & time taken by you. ½ for time scale ½ for dist scale       c. From the graph find out the di
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22       a. Observe the given diagram of digestive system and identify the parts A, B, C, D       5(2+3)
SV D D
A
1 Carlos
A=gall bladder,B=stomach ,C=Pancreas ,D=small intestine <sup>1</sup> / <sub>2</sub> each
b. Write the suitable term for the following:
1. Condition of passing watery stools frequently. <b>Diarrhoea</b>
2. No. of milk teeth in a child- <b>20</b>
3. Teeth meant for tearing the food –canines
4. Largest gland of the body-liver
5. Removal of undigested food (feacal matter) from the bodyegestion
<ol> <li>Removal of undigested food (reacal matter) from the bodyegestion</li> <li>Part of elementary canal where food is temporarily stored in ruminants-caecum</li> </ol>
o. I art of elementary canar where food is temporarily stored in fulfillants-caccum
23 An element 'X' on heating in air burns with a dazzling bright light to form a substance 'Y'.Y 5
is then mixed with water to obtain 'Z'.Z is now tested with red litmus that turns blue.
i-Identify X and Y.

	Mg, MgO $\frac{1}{2} + \frac{1}{2}$		
	ii-is conversion of X to Y is a physical or a chemical change. Give reason.		
	Chemical change, new products were formed 0.5+0.5		
	iii-Write the equation for the conversion of X to. Y		
	Magnesium + Oxygen→ Magnesium Oxide 1.5		
	iv-Why do you understand about the nature of substance Z after the litmus test?		
	Base 0.5		
	v- Write any other two examples of the same type of change.		
- 2.4	Rusting of iron, digestion of food, burning of paper (any two) 1/2 each	~	
24	Convert $104^{\circ}$ F into Celsius.	5	
	C/5 = F - 32/9 <sup>1/2</sup> formula		
	$C/5 = 104 - 32/9 \frac{1}{2}$ Calculation $\frac{1}{2}$		
	$40^{\circ}$ C ans $\frac{1}{2}$		
	a. Give reason for the following- 1 mk each		
	(i) We should always jerk the thermometer before using it- <b>to bring the mercury level</b>		
	down		
	(ii) Polar bears have thick fur on their body. air is trapped in fur, air is a bad		
	conductor of heat.		
	(ii) A wooden spoon dipped in a cup of ice cream does not become cold-wood is bad		
	conductor		
	Section B		
25	Take three test tubes. Fill <sup>3</sup> / <sub>4</sub> of each with water. Label them A, B, C. Keep a snail in A, a water	1	
	plant in B and in C keep both snail and plant. Which test tube will have higher concentration of		
	$CO_2$ and why?		
	A $\frac{1}{2}$ , CO <sub>2</sub> given out by snail accumutales 0.5		
26		1	
20	Rita was standing near a place where people were digging for three days to get ground water. What lead to depletion of water?	1	
	<b>▲</b>		
	Water level had gone down due to overconsumption , No water harvesting		
27	Now days digital thermometers that do not use mercury are getting popular. What could be the	1	
	reason?		
	Mercury is difficult to dispose		
28	Name the opening present on the body of insects like cockroaches, ants and mosquitoes that	1	
	help them in exchange of gases		
	spiracles		
29	Sneha saw and stopped her younger sister Snigdha throwing the waste packet of chips into the	1	
	lake water.List two values exhibited by Sneha?		
	She is protecting river water from pollution/ Love for nature, environment		
	Scientific attitude		
	Conscious citizen (any two relevant)		
30	Name the thermometer used for measuring the temperature of a particular day reported in	1	
	weather report.		
	Maxm- min thermometer		
31	Why do food and pickles get spoiled very fast by fungi during monsoon?	1	
	Fungal spores in the air , moist and warm weather ideal for growth of fungi		
32	Ravi went to a factory to buy shawls made by wool. How can he find out that the shawl he is	1	
	buying is of good quality?		
	By burning it if plastic smell then of poor quality		
33	Stainless steel pans are usually provided with copper bottoms. What could be the reason for	1	
	this?		
	Copper is a better conductor of heat than steel , so the food cooks faster		
34	Observe the given picture. It shows the green plant that performs photosynthesis normally but	2	
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	<ul> <li>its leaves are modified to trap insects. Identify the plant. Why does this plant feed on insects if it is green?</li> <li>Image: Image: Ima</li></ul>	
35	List two varieties of silk found in India. Also name the states from where they are obtained. Muga/eri/tassar and state of each $\frac{1}{2} \times 4$	2
36	A simple pendulum takes 38 seconds to complete 20 oscillations. Calculate the time period of this pendulum. T= Time taken /no.of oscillations $\frac{1}{2}$ = 38/20 $\frac{1}{2}$ = 1.9 sec $\frac{1}{2}$ value $\frac{1}{2}$ unit	2