

ITL Public School Summative Assessment 1(2015-16)

Date: 16/09/2015

Class: VII

M. M: 90

Marking Scheme SCIENCE (Set -A)

Time:3h

1	Name the cells which surround stomatal opening. Guard cells 1	1
2	What is the function of gall bladder in the human digestive system?To store bile juice.1	1
3	What is the range of clinical thermometer? 35^oC to 42^oC .5+.5	1
4	 Which part of digestive system is involved in: a) Complete digestion of food. Small intestine b) Absorption of water. Large intestine 1+1 	2
5	Why does shearing not hurt the sheep? Upper layer of skin is dead which is peeled along with hair. 1+1	2
6	Name an animal which can breathe througha) Gillsfishb) Skinearthworm1	2
7	 A microorganism lives in the root nodules of leguminous plants and is considered beneficial for soil fertility. In reference to this answer the following: a) Name the microorganism. Rhizobioum bacteria 1 b) Name the relationship between plant and microorganism. Symbiotic relationship 1 c) What is the role of microorganism inn increasing soil fertility? It fixes atmospheric nitrogen into soil 1 	3
8	 Write appropriate term for the following: a) Organism which depend on dead and decaying organic matter. Saprotrophs b) An association of alga and fungus. lichens c) Organism on which parasites is dependent. host d) Pigment in plants which capture sunlight. chlorophyll e) The part of plant modified to form spines in desert plants. leaves f) Plants which feed upon insects. Insectivorous .5x6=3 	3
9	 Give reasons: i) Villi are present in small intestine. To increase surface area for absorption of food. ii) Mucus is secreted in stomach. To protect it from action of acid iii) ORS is given during diarrhea. To compensate salt & ions in the body. 1x3 	3
10	A component of food is easily digested by cows & buffaloes but not by human beings. Name the component & explain why it is not digested by human beings? Cellulose. 1 Herbivores have cellulose digesting bacteria in their caecum humans don't have . 2	3
11	Explain the different stages of life cycle of silk moth with the help of diagrams. Diag 2m. Egg ,larva,pupa,adult 1m	3
12	Write three precautions to be taken while reading clinical thermometer.	3
L		

	It should be washed before use. Mercury level should be below 35	
	Don't hold it by bulb. 1x3	
13	When a candle burns, both physical and chemical changes take place. Identify these changes and give reason in support of your answer.	3
	Melting of wax physical change as state changes. 1.5 Burning of wax Chemical change as ash and gas is formed 1.5	
14	A car moves with a speed of 60 km/h for 30 min & then with a speed of 80km/h for next 30 min.	3
	Calculate: a) The total distance travelled by car D1=60x.5=30km .5 D2=80x.5=40km .5 Total distance=40+30=70km .5	
	b) Average speed of the car=total distance/total time $.5$	
15	=70/1=70km/h .5+.5 Give reasons:	3
13	 a) Whales and dolphins often come to surface of water. To breathe air as they have lungs to respire. 1 b) Mode of respiration in frog and tadpole is different. Frog is terrestrial and tadpole is aquatic 1 c) Yeast is used to make wine and beer. It produces lots of co₂ and alcohol during respiration. 1 	5
16	"Frequent situations of water crisis alarm us to conserve water". Explants three steps which can be taken for proper management of water. Drip irrigation,rain water harvesting,reuse,recycle,reduce.explanation of any three. 1x3	3
17	What do you mean by water table? What is the effect of droughts and heavy rain fall on water table?	3
17	what do you mean by water table: what is the effect of droughts and neavy rain rai on water table:	5
	The upper limit of water below soil. 1 Droughts decreases it. 1 Heavyrainfall increases it. 1	
18		3
	Differentiate between aerobic and anaerobic respiration.(two points).Give one similarity also.	
	Aerobic-in presence of oxygen, complete oxidation Anaerobic-in absence of o ₂ , incomplete oxidation5x4	
	Boht give energy 1	
19	a) Observe the following diagram and label the parts A,B,C,D.	5
	b) Which component of food is digested in stomach and how?	
	 c) What are the end products of digestion of proteins? a) A=liver,B=stomach,C=small intestine,D=large intestine .5x4=2 	
	b) Protein by action of digestive enzymes .5+.5=1	
	c) Glucose, amino acids, fatty acids , glycerol5x4=2	
20	a) Why is selective breeding done in sheep? To get good quality wool. 1	5
	b) Name two types of hair present in skin of sheep. Which among the two is used to make wool?	
	coarse, fine hair 1 fine hair are used .5c) Mention the steps to obtain wool by processing of fleece of sheep.	
	Shearing, scouring, sorting, combing, dyeing .5x5=2.5	

1								
	,	vert 45°C into °F.					5	
1		-f-32/9 .5						
	45/5	5=f-32/9						
		> 9x9+32=f .5						
	F=8	$1+32=113^{\circ}F$ 1						
 b) i) Digital thermometers are preferred over mercury thermometers. Mercury is poisonous and difficult to dispose 1 								
Iii) False ceiling keeps the room warm during winters. It traps air which doesn't let heat								
		ve out. 1		ann danng winters.	it traps an win	ch doesh t let neut		
	mov	cout. I						
2	a) An i	ron nail is kent in cor	ner suln	hate solution w the c	colour of which is	blue . After sometime	5	
2							5	
	 the colour of solution changes to green & there is a brown deposit on iron nail. What type of change has taken place? Chemical 1 							
	• i)							
	1)			nical equation for the		•		
	1) (1)			niron sul		2		
	b) Clas	sify the following cha			car:			
		a) Digestion of f						
		b) Rusting of irc						
		c) Photosynthes		emical				
		d) Crystallizatio	n. P hy	sical .5x4=2				
	<u> </u>	1 4 4 6 11 1	11 .	1	,	••	-	
3	a) Com	nplete the following ta	able on th	ne basis of movemen	its occurring duri	ng respiration:	5	
	S.NO	parameter				exhalation		
		<u> </u>		inhalation				
	1				inward			
		movement of ribs		outward				
	2	movement of diaphr	agm					
				downward	upward			
	3	movement of air	T	inward	outwar	d		
				-6				
	.5x6							
	ii) Rahul's friend insisted him to try smoking once but Rahul refused. What reasons he							
	give to him for it? What value is depicted by his action?							
			se lung (cancer. 1				
		Smoking may cau	. –					
	A 1	Caring, aware	1		0.00 751 1		1	
4		Caring, aware its journey at 8:00am.	1 .It reache	es its destination at 1	0:00am.The dista	ance travelled by the	1	
4	car at variou	Caring, aware its journey at 8:00am is intervals of time is a	1 .It reache	es its destination at 1	0:00am.The dista	ance travelled by the	1	
4		Caring, aware its journey at 8:00am. is intervals of time is a km)	1 It reache as follow	es its destination at 1 s:		-	1	
4	car at variou	Caring, aware its journey at 8:00am is intervals of time is a	1 .It reache	es its destination at 1	0:00am.The dista	ance travelled by the	1	
4	car at variou Distance(Caring, aware its journey at 8:00am. is intervals of time is a km) 0	1 It reaches as follow 20	es its destination at 1 s: 40	60	80	1	
4	car at variou	Caring, aware its journey at 8:00am. is intervals of time is a km)	1 It reache as follow	es its destination at 1 s: 40		-	1	
4	car at variou Distance() Time(h)	Caring, aware its journey at 8:00am. is intervals of time is a km) 0 8:00	1It reachesas follow208:30	es its destination at 1 s: 40 9:00	60	80	1	
4	car at variou Distance(I Time(h) a) Dra	Caring, aware its journey at 8:00am. is intervals of time is a km) 0 8:00 w a distance time gra	1It reachesas follow208:30aph for a	es its destination at 1 s: 40 9:00 above data. 1.5	60 9:30	80	1	
4	car at variou Distance(I Time(h) a) Dra b) From	Caring, aware its journey at 8:00am. is intervals of time is a km) 0 8:00 w a distance time grammer m graph find out the	1It reachedas follow208:30aph for ae distance	40 9:00 above data. 1.5 e covered at 8:45an	60 9:30	80	1	
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	Bread mould, saprotrophic .5=.5	
26	Bacteria present in teeth convert sugar in food into a substance X .Name the substance X and mention its effect on teeth.	1
	Acid, it decays the tooth5+.5	
27	Name the process by which heat travels from heater to our body. Radiation 1	1
28	What is the chemical name of baking soda? Sodium bicarbonate 1	1
29	Rita lives near coast. She always complains that her iron article get rusted very fast. What do you think is the reason for this? Moisture is more in air. 1	1
30	What would happen if a plant is overwatered?Roots will not get air and plant dies1	1
31	Why do we sneeze on inhaling lots of dust laden air? To clear nasal tract as dust irritates lining of nose. 1	1
32	When is world water day celebrated & why? 22 march,To create awareness about water conservation5+.5	1
33	How can you minimize use of water while working in kitchen? Reuse RO water. 1	1
34	Write two advantages of constructing dams. Water is used :to get electricity, irrigation purpose.1+1	2
35	A simple pendulum completes 20 oscillations in 40 sec.Calculate its time period. Time period=time/no of oscilations .5 =40/20 .5 =2sec 1	2
36	Renu's mother stopped her from talking while eating. What can be the reason for this? What is the value depicted by mother's action?Food may enter wind pipe.1Caring,aware,scientific mind.Any one1	2