

INDIAN SCHOOL MUSCAT MIDDLE SECTION ANNUAL EXAMINATION 2018-19



SCIENCE Code: MYSC03

CLASS: VII ANSWER KEY Time Allotted: 2 ½ Hrs.

05.03.2019 Max .Marks: 80

00.00		
	SECTION A	
1.Fill	in the blanks	
a.	Spiracles	1
b.	Reeling	1
C.	Amino acid	1
d.	Concave	1
e.	Reduced / decreased / low	1
f.	Plasma	1
2. Ch	oose the correct answer	
a.	iii) lactic acid	1
b.	ii) Hans Christian Oersted	1
C.	iv) Molars and Premolars	1
d.	ii) sodium bicarbonate	1
e.	i)Typhoon	1
f.	iv) Bryophyllum	1
3. Sta	te TRUE or FALSE	
a.	True	1
b.	True	1
C.	True	1
d.	False	1
e.	False	1
f.	False	1
4. Giv	re ONE word / term for the following	
a.	Element	1
b.	Sericulture	1
C.	Anthrax	1
d.	Lichens	1
e.	Liver	1
f.	Tornado	1

g.	Zygote	1
	SECTION B	1
Ques	tions 5 to 19 carry 1 mark each	
5	Stomata-Tiny pores on leaves – ½mark	1
	Function-Exchange of oxygen and carbon dioxide (or) Transpiration – ½mark	
6	Electromagnets-A coil with a core of iron which acts as a magnet only when electric	1
	current flows through it – 1/2 mark	
	Used in electrical appliances like electric bell, fan, motor, TV - ½ mark(any one)	
7	Coarse beard hair and fine soft under hair close to the skin.	1
8	Villi- finger-like outgrowths present on the inner walls of the small intestine- ½mark	1
	Function- increase the surface area for absorption of digested food- 1/2 mark	
9	Light travels only along a straight line (or) Rectillinearpropogation of light.	1
10	Uneven heating of equator and poles - 1/2 mark	1
	Uneven heating of land and water- 1/2 mark	
11	Odometer-measures the distance moved by the vehicle in kilometer's.	1
	Speedometer-shows the speed of the vehicle.	
12	(a)Spirogyra (alga) -½mark	1
	(b)Fragmentation - ½mark	
13	Miniature circuit breakers are switches which automatically turn off when current in a	1
	circuit exceeds the safe limit.	
14	Cellulose - ½mark	1
	The bacterium present in ruminants which can digest cellulose is absent in humans	
	½mark	
15	7 colours namely Violet, Indigo, Blue, Green, Yellow, Orange, Red	1
16	Air exerts pressure in the opposite direction in which bicycle is moving.	1
17	Time period = time taken / no. of oscillations	1
	= 25 / 20 = 1.25 s (1.25 - ½ mark; seconds - ½ mark)	
18	Prevent overcrowding, avoids competition for sunlight, water and minerals, invade new	1
	habitats. (any 2 ; ½ mark each)	
19		1
	A	
	Distance	
	Dist	
	Time —▶	
	tions 20 to 29 carry 2 marks each	1
20	Anaerobic respiration- Respiration in the absence of oxygen 1mark	2
	Yeast respire anaerobically producing alcohol 1mark	
21	Shearing– The process of removing fleece from the sheep1mark	2
	The uppermost part of the skin holding the hair has dead cells1mark	

22	A) Bile Juice – Liver secretes bile juice which helps in digestion of fats1mark B) Hydrochloric acid is secreted by Stomach and it helps to kill bacteria and also maintains the acidity of stomach1mark					
23		Lens and rays – 1 ½ marks Direction – ½ mark	2			
24	The rain containing excess of acids is called an acid rain. The rain becomes acidic because carbon dioxide, sulphur dioxide and nitrogen dioxide (which are released into the air as pollutants) dissolve in rain drops to form carbonic acid, sulphuric acid and nitric acid respectively. –1mark Acid rain can cause damage to buildings, historical monuments, plants and animals-(any 2) 1mark					
25	<u>Arteries</u>	<u>Veins</u>	2			
	Arteries carry blood from the heart to all parts of the body.	Veins carry blood from all parts of the body back to the heart.				
	2. Arteries carry oxygen-rich blood.	2. Veins carry carbon dioxide-rich blood.				
	3. There are no valves present in arteries.	3. There are valves present in veins which allow blood to flow only towards the heart.				
	4. The arteries have thick walls.	4. The veins have thin walls.				
	5. Arteries are deep seated.	5. Veins are found closer to the surface.				
00	(Any two each from arteries and ve	eins) - ½ mark each				
26	Speed of the bus = 45 km/h Time = 10 min = $\frac{10}{60}$ h = $\frac{1}{6}$ h Distance = Speed x Time	½ mark	2			
	Distance = Speed x Time					
	$=\frac{45}{6}$ = 7.5 km	½ mark + ½ mark				
27	Unisexual flower - Flowers which contain either only pistil or only stamens . Examples are Corn, papaya and cucumber - 1mark (any 1) Bisexual flower - Flowers which contain both stamens and pistil. Examples are Mustard, rose and petunia— 1mark (any 1)					
28	When we inhale, the dust particles get trapped in the hair present in the nasal cavity 1mark Sometimes these particles get past the hair and irritates the lining of nasal cavity and we sneeze 1mark					

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	nalein is added to basic solution, it turns deep pink colour. – 1mark	2
<u> </u>	nalein is added to acidic solution, it remains colourless. – 1mark	
	y 3 marks each	3
Electric cel	(ii) Electric bulb (½ mark each)	٥
⊩ _@	_	
battery an	cuit – The electric path which starts from the positive terminal of a nds at negative terminal without any break 1mark	
•	- The electric path which starts from the positive terminal of a	
	broken at some point before reaching the negative terminal 1mark	3
Plane mirr	 virtual, erect, diminished (any 2 points – ½ mark each) virtual, erect, same size of object virtual, erect, diminished 	3
	een an acid and a base is neutralisation reaction. Salt and water are evolution of heat 1mark	3
,	bites, it injects formic acid. To neutralise this, calamine which contains ase) is rubbed 1mark	
ases acids	I is basic, organic matter (compost) is added to it. Organic matter nich neutralises the basic nature of the soil 1mark	
	i.e. his speed is zero 1mark	3
	notion - 1mark	
•	ice/Time ½ mark 150 75	
=	$\frac{150}{8} = \frac{75}{4} = 18.75 \text{ m/min-} \frac{1}{2} \text{ mark}$	
Self-pollina	 ∩- 1mark	3
•	ands on the stigma of the same flower it is called self-pollination. When	
	wer lands on the stigma of another flower of the same plant, or that of	
ferent pla	f the same kind, it is called cross-pollination 1mark	
	e and female gamatesproducing zygote 1mark	
35 carries		
A – kidney 3 - ureter	(½ mark each)	5
urinary bla	er	
urethra		
•	ste products from the blood and produce urine 1mark	
ılt of kidne	person's kidneys may stop working due to infection or injury. As a ailure, waste products start accumulating in the blood 1mark	
-	annot survive unless their blood is filtered periodically through an his process is called dialysis1mark	

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