



<b>NAME</b>		<b>ROLL NO.</b>	
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	<b>INDIAN SCHOOL MUSCAT MIDDLE SECTION ANNUAL EXAMINATION 2019 – 2020</b>	
	<b><u>SUBJECT – SCIENCE SET A</u></b>	Code: MZSC08
CLASS 8	<b>ANSWER KEY</b>	Time Allotted: 2 ½ hrs
09.03.2020		Max .Marks: 80

General Instructions.

- 1.The question paper comprises of three sections **A ,B& C**. You have to **attempt all** the sections.
- 2.All the questions are **compulsory**.
- 3.All the answers should be written in the **answer sheet** provided.

Q.NO1	<b><u>SECTION 'A' – ( '1' MARK EACH ) – TOTAL – 20 MARKS</u></b>	Marks
(a)	ii. gene	1
(b)	ii.CNG	1
(c)	iv.ions	1
(d)	ii.have a higher pitch	1
(e)	iv..all of these	1
(f)	i.zinc	1
(g)	i.menstruation starts	1
(h)	i.nucleus	1
(i)	ii.metamorphosis	1
(j)	ii.copper rod	1
(k)	Water suitable for drinking.	1
(l)	Virus become active and reproduce only inside the cells of host organisms.	1
(m)	Dysentry,malaria(1/2 m +1/2 m)	1
(n)	If a vaccine is injected to a healthy person,it produces antibodies (1/2m) Antibodies remain in the body and person is protected from disease causing organism.(1/2m)	1
(o)	Vocal cords in men are longer than women.	1
(p)	Stretched membrane.	1

(q)	This is because metals are good conductors of heat(1m)	1
(r)	Insulin-Helps in regulating blood sugar level(1/2m) Thyroxine-.Plays an important role in growth and development.	1
(s)	Location-Near the kidneys hormone ,secreted by adrenal gland-Adrenalin(1/2m each)	1
(t)	Uterus.	1

Q.NO	<b><u>SECTION 'B' – ( '3' MARKS EACH ) – TOTAL – 30 MARKS</u></b>	Marks
(2)	a. Animal cell have internal skeleton which gives shape and rigidity(1/2m) Plant cell do not have internal skeleton, cell wall gives shape and rigidity.(1/2m) b. Cell membrane separates cell from one another and from surrounding medium.It porous and allows movement f substances both inward and outward. (2m)	3
(3)	a. Total mass of fuel = 4.5 kg Total heat produced = 180,000 kJ Heat produced by burning 1 kg of fuel = 180,000 kJ/4.5 kg = 40,000 kJ/kg.(1/2 m steps,1m answer) b. Green leaves contain moisture whereas dry leaves do not contain moisture (1m) as a result, the ignition temperature of green leaves is higher than that of dry leaves.(1/2m)	3
(4)	a.13cm(1m) b.Convex lens(1m) Retina(1m)	3
(5)	a. The medicines which kill or stop the growth of microorganisms in our body are called antibiotics.It is made from bacteria or fungi(1m) b.*Antibiotics should be taken only on the advice of a qualified Dr. *Complete the course. *We should take only if needed. (any 2)	3
(6)	a.The green material is a mixture of copper hydroxide and copper carbonate. (1m) b.copper+water+carbondioxide+oxygen ----- copper hydroxide+copper carbonate.(1m) c. Basic (1m)	3
(7)	a.Time period=time taken/No. of oscillations=40/20=2 seconds(1 1/2m) b. Speed=Distance/time,Distance=Speed X Time= 330X5= 1650m(1 1/2m) OR a.Sound cannot travel through vaccum(2m) b. Oscillatory motion is defined as the to and fro motion of an object from its mean position.(1m)	3
(8)	a. It is an instrument to detect the presence of electric charge on a body. (1m) b*Any 2 safety measures.(2m)	3
(9)	a. The electricity produced by rubbing is called static electric charge.(1m) The most significant difference between the static and current electricity is that in static electricity the charges are at rest Whereas in electric current, electricity the electrons are moving inside the conductor.(1m) b. When we rub the glass rod with the silk cloth, electrons are stripped away from the atoms in the glass and transferred to the silk cloth. (1m)	3

(10)	<p>a. Menarche-first menstrual flow, Menopause-Stoppage of menstruation.(1m)  b. Testosterone-It produces secondary sexual characteristics in boys. Oestrogen-Secondary sexual characteristics in girls.(2m)</p> <p style="text-align: center;">OR</p> <p>a. Any 2 changes(2m)  b. The growing voice box in boys can be seen as a protruding part of the throat called Adam's apple.(2m)</p>	3
(11)	<p>a. Viviparous animals-Animals which give birth to young ones. Eg. Any one.  Oviparous animals-Animals which lay eggs. Eg. Any one (2m)  b. The characters which help to distinguish the male from female are called secondary sexual characters.(1m)</p>	3

Q.NO	<b><u>SECTION 'C' – ( '5' MARKS EACH ) – TOTAL – 30 MARKS</u></b>	Marks
(12)	<p>a. Plant cell-Cell wall present, large vacuole, plastids present.  Animal cells-Cell wall not found, vacuoles not seen, if seen small, plastids not found.(3m)  b. Plastids are several small colored bodies scattered in the cytoplasm of plants.(1m)  c. Chloroplast provide green colour to the leaves.(1m)</p>	5
(13)	<p>a. diagram (2m) labeling(2m)  b. outermost zone(1/2m) It is the hottest zone.(1/2m)</p>	5
(14)	<p>a. Greenhouse effect is the process by which radiations from the sun are absorbed by the greenhouse gases and not reflected back into space. (1m)  carbon dioxide, methane, nitrous oxide, water vapour (any 2)2m  b. Ozone protects us from harmful UV rays from the Sun.(1m)  c. The Kyoto Protocol is an international agreement that aimed to reduce carbon dioxide (CO<sub>2</sub>) emissions and the presence of greenhouse gases (GHG) in the atmosphere.(1m)</p> <p style="text-align: center;">OR</p> <p>a. An ambitious plan to save river Ganga is called Ganga Action plan.(1m)  b. Any 2 factors.(1m)  c. Any 2 factors.(1m)</p>	5
(15)	<p>a. . (i) Angle of incidence is always equal to the angle of reflection. (ii) The incident ray, the normal at the point of incidence, and the reflected ray all lie in the same plane.(2m)  b. 2m  c. 30<sup>0</sup>.(1m)</p>	5
(16)	<p>a. Displacement reaction is a reaction in which a more reactive metal displaces a less reactive metal from its salt solution.(1m)</p> <p>b. If we put Iron nail into copper sulphate solution, the iron nail will displace copper from copper sulphate solution. The following changes will be</p>	5

	<p>observed:</p> <p>i) The colour of copper sulphate changes from blue to green after putting iron nails in it.</p> <p>ii) Reddish brown colour is deposited on the iron nails. This reddish brown colour is of copper. (2m)</p> <p>c. Copper sulphate+Iron----- Iron sulphate+Copper (1m)</p> <p>d. Chlorine(1m)</p>	
(17)	<p>a. Drawing (1m) labeling(3m)</p> <p>b. Tin is less reactive than iron. Thus food does not come in contact with iron and is protected from getting spoilt.(1m)</p> <p style="text-align: center;">OR</p> <p>a. Drawing (1m) labeling(2m)</p> <p>b. The metal wires/plates/rods through which the current enters or leaves an electrolyte are called electrodes.(1m)</p> <p>graphite,copper(1m)</p>	5

End of the question paper.