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	INDIAN SCHOOL MUSCAT MIDDLE SECTION ANNUAL EXAMINATION 2019 - 2020	
	<u>SUBJECT - SCIENCE SET B</u>	Code: MZSC08
CLASS 8	<u>ANSWER SCHEME SET B</u>	Time Allotted: 2 ½ hrs
09.03.2020		Max .Marks: 80
<p>General Instructions.</p> <p>1.The question paper comprises of three sections A ,B& C. You have to attempt all the sections.</p> <p>2.All the questions are compulsory.</p> <p>3.All the answers should be written in the answer sheet provided.</p>		

Q.NO1	<u>SECTION 'A' - ('1' MARK EACH) - TOTAL - 20 MARKS</u>	Marks
(a)	iii. Cell membrane	1
(b)	ii.metamorphosis	1
(c)	iv.ions	1
(d)	i.have a lower pitch	1
(e)	vi.all of these	1
(f)	ii.phosphorus	1
(g)	i.menstruation starts	1
(h)	ii.mitochondria	1
(i)	ii.CNG	1
(j)	ii. a copper rod	1
(k)	The substances which contaminate the air are called air pollutants.	1
(l)	Vocal cords in men are longer than women.	1
(m)	Cold,influenza or any 2.	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)	Virus become active and reproduce only inside the cells of host organisms.	1
(p)	Stretched membrane.	1
(q)	uterus	1
(r)	Insulin-Helps in regulating blood sugar level(1/2m) Thyroxine-.Plays an important role in growth and development.(1/2m)	1

(s)	Location-Near the kidneys hormone ,secreted by adrenal gland-Adrenalin(1/2m each)	1
(t)	a) making silver foil- Malleability b) bells-Sonority(1/2m each)	1

Q.NO	<u>SECTION 'B' – ('3' MARKS EACH) – TOTAL – 30 MARKS</u>	Marks
(2)	a. All living organisms are made up of cells;All metabolic activities of organisms takes place in cells,(1m) b. Nerve cells receives and transfers messages.(1m) Thereby helping to control and coordinate the working of different parts of the body.(1m)	3
(3)	a. The medicines which kill or stop the growth of microorganisms in our body are called <i>antibiotics</i> .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
(4)	a.14cm(1m) b.*image same size shows lateral inversion/as the object/same colour /distance from mirror and object same as the distance between image and mirror(any 3, 2m)	3
(5)	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
(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=20/10=2 seconds(1 1/2m) b. Speed=Distance/time,Distance=Speed X Time= 330X6= 1980m(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 electric current 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)	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) OR a.Any 2 changes(2m) b. The growing voice box in boys can be seen as a protruding part of the throat	3

	called Adam's apple.(2m)	
(11)	a.Internal fertilization-fertilization takes place inside female body,External fertilization-It takes place outside the body.(1m) b. correct diagram(2m)	3

Q.NO	<u>SECTION 'C' – ('5' MARKS EACH) – TOTAL – 30 MARKS</u>	Marks
(12)	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 ₂) emissions and the presence of greenhouse gases (GHG) in the atmosphere.(1m) OR a.An ambitious plan to save river Ganga is called Ganga Action plan.(1m) b.Any 2 factors.(1m) c.Any 2 factors.(1m)	5
(13)	a. 3 m b. outermost zone(1m) It is the hottest zone.(1m)	5
(14)	a. Displacement reaction is a reaction in which a more reactive metal displaces a less reactive metal from its salt solution.(1m) 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 observed: i) The colour of copper sulphate changes from blue to green after putting iron nails in it. ii) Reddish brown colour is deposited on the iron nails. This reddish brown colour is of copper. (2m) c.Copper sulphate+Iron----- Iron sulphate+Copper (1m) d.Chlorine(1m)	5
(15)	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 ⁰ .(1m)	5
(16)	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)	5
(17)	a.Drawing (1m) labeling(2m) b. The metal wires/plates/rods through which the current enters or leaves an electrolyte are called electrodes.(1m) graphite,copper(1m) OR a.Drawing(1m)labeling(3m) b.Does not corrode/shiny appearance/ resists scratches (any 1, 1m)	5