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	INDIAN SCHOOL MUSCAT MIDDLE SECTION HALF YEARLY EXAMINATION 2019 – 20	
	<u>SUBJECT – SCIENCE ANS KEY</u>	Code:MZSC15
CLASS:8		Time Allotted: 2 ½ hrs
25.09.2019		Max .Marks: 80

Q.NO1	<u>SECTION 'A' – ('1' MARK EACH) – TOTAL – 20 MARKS</u>	Marks
(a)	b)10 N to the right	1
(b)	c) Cell membrane	1
(c)	a)Rayon	1
(d)	b) Change of seasons	1
(e)	d)Ice skating	1
(f)	c) Nitrogen	1
(g)	c) D	1
(h)	d) Coal Tar	1
(i)	a)Venus	1
(j)	d) Tuberculosis	1
(k)	Contact- muscular/friction. noncontact- magnetic/electrostatic/gravitational	½, ½
(l)	There is no medium/air in space for sound to travel.	1
(m)	Genes help in the transfer of characteristics from parent to offspring	1
(n)	Cassiopeia	1
(o)	Due to heat because of friction	1
(p)	Depletes the ozone layer	1
(q)	Wool. used to make sweaters etc.	½, ½
(r)	Acid	1
(s)	Any two uses	½, ½
(t)	Carbon monoxide. Reduces oxygen carrying capacity of blood	½, ½

Q.NO	<u>SECTION 'B' – ('3' MARKS EACH) – TOTAL – 30 MARKS</u>	Marks
(2)	a) friction by fluids b) speed of the object/nature of the fluid/shape of the object(any 2) c) drag can be minimized by giving objects stream lined shape	1 each
(3)	Lowest temperature at which an object catches fire. The paper cup does not attain its ignition temperature as the water absorbs the heat supplied to paper. So it does not catch fire.	1 2
(4)	a) Draw the structure of an amoeba. b)pseudopodia helps in movement and capturing food c) Both are unicellular/can change shape	1 each
(5)	Coke, coal gas, coal tar any one use of each.	½ each
(6)	a) Nylon fibres are very strong b) synthetic fibres dry easily/absorb less moisture c) Plastic bottles do not react with chemicals	1 each
(7)	fossil fuels take millions of years to be formed and are limited very slow process, conditions cannot be created in the lab	1 2
(8)	a) Earth moves from west to east. b) small objects that enter the earth's atmosphere and burn due to friction	1 2
(9)	Release gases like carbon dioxide, monoxide, compounds of lead ,smoke etc any two ways	1 2
(10)	a) causes electric shock b) carbon dioxide ,does not damage the appliance	1 2
(11)	Excessive chemicals washed into ponds from fields help algae to grow. Bacteria feed on dead algae using up oxygen Lack of oxygen cause death of aquatic organisms OR Because of high pollution aquatic life cannot survive. Any 2 ways of pollution of ganga	1 each 1 2

Q.NO	<u>SECTION 'C'– ('5' MARKS EACH) – TOTAL – 30 MARKS</u>	Marks
(12)	a)plant cell. b) A- cell membrane and B- vacuole c) B is large/ single in a plant and small/many vacuoles in animal cell d) cell membrane give shape,rigidity,allows movement of subsatnces through it (any2) OR a)nucleus/cell membrane/cytoplasm(any 2) b)cell membrane/cytoplasm/nucleus/vacuole/mitochondrion-functions	1 1 1 2

	c)cell wall/plastid -functions	
(13)	a) burning of coal as it is a chemical process with oxygen which gives our heat. b)spontaneous c) Draw a candle flame and label the four zones of the flame.	2 ½ ½Each+ ½neatness
(14)	a) bakelitei) ii) polythene b) i -thermosetting ii- thermoplastic c) i can be softened on heating ii cannot /I gets deformed on heating ii does not d) non biodegradable, pollution on burning	1 1 1 2
(15)	a)one over a grass lawn as surface is rough so friction is more and slows down the ball b) in the trolley as rolling friction is less than sliding friction c) any one advantage and disadvantage of friction	2 1 2
(16)	a)due to its commercial importance b) process of separating the fractions of petroleum c)i) jet aircrafts - kerosene ii) Vaseline – paraffin wax ii)solvent for dry cleaning –petrol iv) road surfacing - bitumen d) clean fuel/can be transported directly through pipelines	1 1 2 1
(17)	a) force – newton and pressure- pascal b) greater area so pressure will be less b)F=PX A F=300x .02=6 N c) more the height of the liquid column, greater the pressure exerted at the bottom	1 1 ½ each= 2(½-unit) 1

End of the question paper.