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MARKING SCHEME



INDIAN SCHOOL MUSCAT MIDDLE SECTION FIRST TERM EXAMINATION 2018-19



SCIENCE

CLASS: 7

Time Allotted: 2 ½ Hrs.

16.09.2018

Max .Marks: 80

SECTION A

1.Fill in the blanks

a.	Autotrophs / producers	1
b.	Radiation.	1
c.	Acetic acid	1
d.	Stomata	1
e.	Afternoon/noon	1
f.	22 nd March.	1

2. Choose the correct answer

a.	ii) Parasite	1
b.	ii) lactic acid	1
c.	iii) extremely cold climate	1
d.	iii) nichrome	1
e.	iv) the world remains constant.	1
f.	ii) anaerobic bacteria	1



3. State TRUE or FALSE

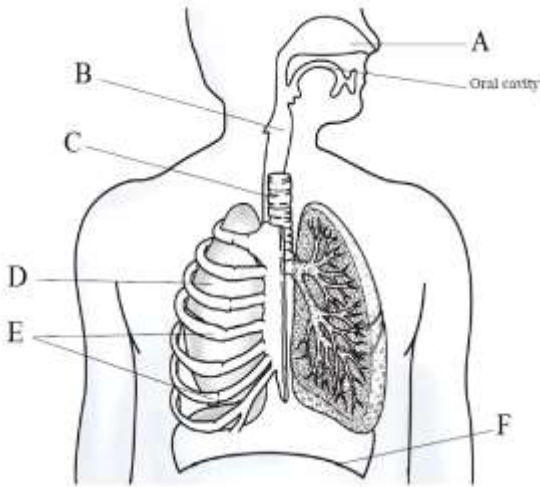
a.	F	1
b.	F	1
c.	T	1
d.	T	1
e.	F	1
f.	T	1

4. Give ONE word / term for the following

a.	Spiracles	1
b.	Climate	1
c.	Positive	1
d.	Drip irrigation	1
e.	Beak	1
f.	(Hans Christian) Oersted	1
g.	Infiltration	1

SECTION B

Questions 5 to 19 carry 1 mark each		
5	Chlorophyll	1
6	Black colors are good radiators of heat (1 mk).If absorbers of heat is only written then give ½ mk)	1
7	Due to the deposition of copper.	1
8	Through their skin.	1
9	Temperature, humidity, rainfall , wind speed (any two)	1
10	Prevents damage to electrical circuit/devices due to a large current, prevents shocks, prevents fire .(any one reason)	1
11	Water the plants early morning/ evening, Water the base of the plant or any other relevant point.	1
12	For cleaning / maintenance of the sewers.	1
13	To help it climb trees on which it lives.	1
14	a)  b) 	1
15	Paved surface/ deforestation/ Urbanization/ dumping of plastic wastes	1
16	Sewage is the waste water released from homes, industries, hospitals and offices. It has dissolved and suspended impurities.	1
17	Electromagnet, electric bell, TV set, ATM cards etc. (any two)	1
18	Over population, industrialization, deforestation, urbanization, agriculture, mismanagement etc.	1
19	To remove the floating impurities.	1
Questions 20 to 29 carry 2 marks each		
20	Carbon dioxide + Water → Carbohydrates + Oxygen (sunlight/chlorophyll should be written on the arrow)	2
21	Wool is an insulator Air trapped in between the wool fibers provides additional insulation.	2
22	Take some water in a beaker and add few drops of dilute sulphuric acid. Boil the water and add copper sulphate powder to it. Stir to make a super saturated solution. Filter and cool the solution in another beaker. After some time crystals of copper sulphate are seen	2
23	Aerobic respiration <u>requires</u> oxygen, produces <u>more energy</u> . Anaerobic respiration takes place in <u>absence</u> of oxygen, produces <u>less energy</u> . (OR any other relevant point)	2
24	Layer of fat under their skin. Strong sense of smell. OR white fur to camouflage itself or any other relevant point.	2
25	Strength of current through it / number of turns in it / material of its core (any two)	2
26	Oil and fats not to be let out into drains. Chemicals such as paints, medicines, insecticides etc. should not be thrown into the drains. OR Solid food remains, tea leaves, plastic toys etc. should be thrown in the dustbin rather than the drains.	2
27	Conduction takes place in <u>solids</u> and convection in <u>fluids</u> , Conduction is <u>slower</u> whereas convection is <u>faster</u> than conduction.	2

28	a) Magnesium oxide + water → Magnesium hydroxide b) Carbon dioxide + Lime water → Calcium carbonate + Water	2
29	Septic tanks, chemical toilets, composting pits, biogas plants (any two)	2
Questions 30 to 34 carry 3 marks each		
30	a) Some organisms live together and share shelter and nutrients. This is called symbiotic relationship. b) It provides food/ does photosynthesis. c) By nitrogen fixation/increase fertility of soil or any other appropriate explanation	3
31	a) 35°C to 42°C. b) prevents mercury level from falling on its own. c) Not to wash it with hot water but use only antiseptic solution. Not to hold the thermometer by its bulb while handling it. Or any other relevant point (see page 37)	3
32	a) New substance is formed/color change takes place /heat is evolved. b) Presence of oxygen (or air) and water (moisture) c) Oiling, greasing, painting, galvanizing (any two)	3
33	a) Long trunk – for smelling/picking up food. b) Large ears - to hear soft sounds/to cool itself in the hot & humid climate of the tropical rainforest. c) Pair of tusks- tear down branches of trees for food.	3
34	1). Cells are not connected appropriately. 2) Cells may have been used up 3) Bulb might be fused. 4) Cells are loosely connected 5) Wires might be broken / switch may be faulty (or any other relevant point)	3
Questions 35 carries 5 marks		
35	<p>Observe the diagram shown below and answer the questions :-</p>  <p>a) A – Nasal passage/cavity /Nostril (½ x 4 = 2mks) B – Pharynx/larynx C - Trachea/wind pipe F – Diaphragm</p> <p>b) During inhalation, ribs moves <u>up</u> and <u>outwards</u>. 1mk</p> <p>c) The number of times a person breathe in a minute is called breathing rate. 1 mk</p> <p>d) Respiratory problem/coughing/asthma/ lung cancer/emphysema etc. (any 2) 1 mk</p>	5