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**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
ANNUAL EXAMINATION 2019-20**



**SCIENCE
SET B – ANSWER KEY**

Code: MWSC01

**CLASS: 5
12.03.2020**

**Time Allotted: 2 ½ Hrs.
Max .Marks: 80**

General Instructions :

1. The question paper comprises of **two Sections, A and B**. You have to attempt both the sections.
2. **All** questions are **compulsory**.
3. **All answers should be written in the answer sheet provided.**

SECTION A- 20 Marks

1.Fill in the blanks		
a.	ores	1
b.	air	1
c.	Moon	1
d.	environment	1
e.	calamities.	1
2. Choose the correct answer		
a.	d. INSAT- 4CR	1
b.	c. screw jack	1
c.	b. decomposers	1
d.	a. Spilling of oil or petroleum	1
e.	d. building more embankments on rivers	1
3. State TRUE or FALSE		
a.	True	1
b.	True	1
c.	False	1
d.	False	1
e.	True	1
4. Match the following		
a.	Mica	1
b.	Red Fort	1
c.	Pumice	1
d.	Taj Mahal	1

e.	Fossils	1
SECTION B		
Questions 5 to 22 carry 1 mark each		
5	Conglomerate	1
6	Rubies, diamonds, sapphires and emeralds are gemstones. (any two)	1
7	Overgrazing by cattle will expose the soil by removing the plant cover. It causes increased soil erosion.	1
8	This is because sound travels in air and there is no air on the Moon.	1
9	The stratosphere	1
10	Air is needed for burning.	1
11	The force of gravity of the Moon is about one-sixth of that on the Earth. So the weight on the Moon = $30/6 = 5\text{kg}$	1
12	topsoil	1
13	Inclined plane	1
14	This simple machine is called the wheel and axle.	1
15	Oxygen	1
16	A food chain shows how food passes from one organism to another.	1
17	Yes. Planting trees will help in maintaining the carbon dioxide level in the atmosphere. Thus global warming will be reduced or prevented.	1
18	This is because these cannot be easily destroyed. ($\frac{1}{2}$ mark) Plastic bottles remain on land for a very long time and pollute it. Such wastes cause land pollution. ($\frac{1}{2}$ mark)	1
19	Famine	1
20	This is i) to control epidemics, outbreak of diseases such as cholera, typhoid. ii) to help patients suffering from poisoning due to snake bite (any 1 point)	1
21	i) strong wind ii) tidal waves	1
22	<ul style="list-style-type: none"> • Army helps to airlift stranded people (any one) • They airdrop food and medicine 	1
Questions 23 to 33 carry 2 marks each		
23	a. This is because due to the large number of vehicles and industries, the demand for these fuels have increased. However these reserves may not last for long. So the need to use these resources wisely. b. Petrol, diesel, plastics, paints, fertilizers, medicines, cosmetics (any two)	2
24	a. This is because in a desert there is less vegetation to bind the soil. Hence strong winds cause the top soil to be easily blown away. b. Farmers leave the stumps and roots of harvested crops so that these hold the soil together on to the ground. Thus the soil will not be carried away by the action of wind or water.	2
25	a. Afforestation is planting trees which is a very effective method to conserve soil. b. Shelter belts (along the edges of farmland as windbreakers) help to reduce soil erosion by reducing the speed of wind.	2
26	a. i) Sedimentation ii) Filtration iii) Chlorination. b. To kill germs	2
27	a. Air occupies space. b. It is used in Science laboratories / car batteries / medicines	2
28	i) A solar eclipse occurs when the Moon comes in between the Sun and the Earth. It blocks the light of the Sun and casts a shadow on the Earth.	2

	ii) A lunar eclipse occurs when the Earth comes in between the Sun and the Moon. The shadow of the Earth falls on the Moon.	
29	a. Sunil should use screws. b. This is because of the grooves, a screw will hold the wood more firmly than a nail. Less force is needed to insert a screw into a piece of wood than a nail because of the inclined edge. A nail has to be hammered with great force.	2
30	a. Air, water, soil and sunlight (any two) b. * Water is required for carrying food to all parts of the body for getting energy. *Water is essential for collecting wastes from all over the body and removing it from the body in the form of urine.(any other)	2
31	a. Goats, birds (any other) b. Grass ___ rabbit ___ fox (any one food chain)	2
32	a. The ozone layer protects us from the harmful ultra violet rays, present in sunlight. b. Nitrogen	2
33	a. It causes huge loss of life and property. b. * Move to an open area away from buildings and trees. (one point.) * Stay away from staircase. * Do not use an elevator. * Stay calm	2
Questions 34 to 38 carry 3 marks each		
34	a. i) The process of wind or flowing water carrying away soil is known as soil erosion. ii) The protection of soil from getting eroded is called soil conservation. b. Terrace or step farming	3
35	Think and answer. a. Oxygen 21%. b. This is because sufficient air for breathing is present only up to a height of about 15 Km above the surface of the Earth. The air gets thinner as the mountaineers go higher and breathing becomes more and more difficult. c. Carbon dioxide	3
36	a. Apollo 11 b. i) Communication satellites are used to relay television and radio programs ii) Weather satellites are used to forecast the weather or a. The huge round pits on the surface of the Moon are called craters. b. The moon takes 28 days approximately to complete one revolution around the Earth. c. This is because the moon is the nearest neighbour of the Earth in space than the stars	3
37	Animals depend on plants for food, shelter and oxygen. (½ mark for each point) Plants depend on animals for carbon dioxide, pollination and dispersal of seeds.	3
38	Think and answer. a. Use wind energy and solar energy instead of fuels. b. This is because it is available to us in huge quantities. It does not cause pollution. c. (one point) • Travel to school using public transport / school bus, instead of cars. • Walk or cycle short distances, instead of using vehicles • Keep the classroom and environment clean by throwing wastes in the garbage bin.	3
Question 39 carries 5 marks		

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a.i) A simple machine is a tool with few parts and makes our work easier and faster.

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ii) A complex machine is more complicated and has many parts. It may have two or more simple machines. (2 marks)

b.i) First class lever: L _____ F _____ E

ii) Second class lever : F _____ L _____ E (1 mark each)

iii) Third class lever: F _____ E _____ L

Or

a. i) Wheel barrow (1 mark each)

ii) Second class lever

iii) Line diagram to show the position of effort, fulcrum and load.

Fulcrum _____ Load _____ Effort

b. Ravi can use an inclined plane.

c. A simple fixed pulley makes the work easier by changing the direction of the force.

