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



**SCIENCE
SET A – 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.	minerals.	1
b.	atmosphere.	1
c.	gravity.	1
d.	ecology.	1
e.	cyclone	1

2. Choose the correct answer

a.	a. New Moon	1
b.	c. bicycle	1
c.	b. decomposers	1
d.	b. Presence of harmful gases in the air	1
e.	c. no or less rain	1

3. State TRUE or FALSE

a.	True	1
b.	False	1
c.	False	1
d.	True	1
e.	True	1

4. Match the following

a.	Fuel	1
b.	Metamorphic rock	1
c.	Igneous rock	1
d.	Quartz	1
e.	Gemstone	1

SECTION B

Questions 5 to 22 carry 1 mark each		
5	Molten rock inside the Earth is called magma.	1
6	Rocks containing metals that can be extracted are called ores.	1
7	The process of wearing away of rocks is called weathering.	1
8	The process of wind or flowing water carrying away soil is known as soil erosion.	1
9	The stratosphere	1
10	The amount of water vapour in the air is called humidity.	1
11	The force of gravity of the Moon is about one-sixth of that on the Earth. Therefore the weight on the Moon = $36/6 = 6\text{kg}$	1
12	Neil Armstrong	1
13	Fulcrum	1
14	A screw jack works on the principle of a screw.	1
15	Herbivores. Ex. cow, sheep, deer,.... etc (Any one)	1
16	Air, water, soil and sunlight (any two)	1
17	A scientist who studies ecology is called an ecologist.	1
18	Pollution is the release of substances into air, water or soil that are harmful to living things.	1
19	Cyclones damage houses and spoil crops. They blow down electric wires.	1
20	Floods can be prevented by afforestation, building dams and embankments on the rivers. (any 2)	1
21	A famine is an extreme shortage of food. (It is accompanied by epidemics and increased mortality.)	1
22	The Red Cross provides services and goods like medicines, clothing and blood to the affected people.	1
Questions 23 to 33 carry 2 marks each		
23	i) Igneous rocks , sedimentary rocks, metamorphic rocks (½ mark each) ii) Another name for crude oil is petroleum.	2
24	* Plants get their nutrition from the soil. (two points) * Many animals find shelter in soil. Ex. ants, earthworm, rabbit * We need products from soil to build our homes.	2
25	Deforestation, farming and overgrazing increases soil erosion. (any two)	2
26	i) Air is needed for burning. ii) This proves that air exerts pressure.	2
27	i) Distilled water ii) To kill germs	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. 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.	2
29	i) A wheel becomes a simple machine when an axle is added to turn the wheel. ii) This simple machine is called the wheel and axle.	2
30	* Plants absorb minerals dissolved in water through their roots. (any two ways) * Plants use water to prepare food during photosynthesis. * Water is required for carrying food to all parts of the body for getting energy. * Water helps in the dispersal of seeds of plants growing in or near water. * Water is essential for collecting waste from all over the body and removing it from the body in the form of urine.	2

31	i) A food chain shows how food passes from one organism to another. ii) Plants _____ rabbit _____ fox (any other)	2
32	i) Pollutants ii) Mineral bottles are made of plastic. Hence they can be recycled and reused instead of throwing them away or burning them.	2
33	*Move to an open area away from buildings and trees. (any 2 points) *Stay away from staircase. *Do not use an elevator. *Stay calm	2
Questions 34 to 38 carry 3 marks each		
34	i) Topsoil ii) The protection of soil against erosion is known as soil conservation. iii) Terrace or step farming	3
35	i) Carbon dioxide. ii) Nitrogen 78 % iii) 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.	3
36	i) Apollo 11 ii) a. Communication satellites are used to relay television and radio programs b. Weather satellites are used to forecast the weather or i) The huge round pits on the surface of the Moon are called craters. ii) The moon takes 28 days approximately to complete one revolution around the Earth. iii) This is because the moon is the nearest neighbour of the Earth in space than the stars.	3
37	i) Animals depend directly or indirectly on plants for food. Plants give out oxygen during photosynthesis. Animals take in this oxygen during respiration. (1mark) ii) Plants depend on animals for carbon dioxide, pollination and dispersal of seeds. (any two points) (2 marks)	3
38	i) This is because a) these are available to us in huge quantities whereas the quantity of fuels is limited. (2marks) b) The use of wind and solar energy does not cause pollution. ii) Wild Life Fund (WWF) (any one) International Union for the Conservation of Nature and Natural Resources (IUCN)	3
Question 39 carries 5 marks		

i) A simple machine is a tool with few parts. It makes our work easier and faster. (2 marks)

A complex machine is more complicated and has many parts. It may have two or more simple machines.

- ii) a) First class lever: L _____ F _____ E (1 mark each)
b) Second class lever : F _____ L _____ E
c) Third class lever: F _____ E _____ L

Or

- i) a) Wheel barrow
b) Second class lever
c) F _____ L _____ E (Mark the position of effort, fulcrum and load.)

ii) Wilfred can use an inclined plane.

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

