

INTERNATIONAL INDIAN SCHOOL DAMMAM
FIRST TERMINAL EXAM 2017—18

STD: VIII

GENERAL SCIENCE

TIME:3 HRS

MARKS: /80

SET-A

*READ QUESTIONS CAREFULLY AND ANSWER.

SECTION A

I.CHOOSE THE CORRECT ANSWER FROM THE GIVEN OPTIONS: 1X10=10M

1. _____ are organisms that act as a link between living and nonliving entities.

[bacteria, virus, algae, protozoa]

2. _____ is the largest cell organelle bound by the nuclear membrane.

[nucleolus, plastids, nucleus, plasma membrane]

3.It is difficult to walk on ice because _____

[pressure is high, friction is high, pressure is low, friction is low]

4. _____ is the rise in temperature of the atmosphere due to the increased emission of carbon dioxide.

[acid rain, deforestation, desertification, global warming]

5.The net force of an object is _____ if the two forces acting on it are equal and opposite.

[add, zero, difference, all the above]

6. _____ is the supporter of combustion.

[oxygen ,carbondioxide, carbon monoxide, nitrogen]

7. _____ is an airborne plant disease caused by a bacteria.

[citrus canker, rust of wheat, yellow vein mosaic, red rot]

8. _____ is called the living substance of a cell.

[protoplasm, organelle, cell wall, genes]

9. _____ is the weight of air in a column of unit area.
[atmospheric pressure, wind speed, friction, force of gravity]

10. _____ is a group of diverse organisms that lack in chlorophyll.
[spirogyra, aspergillus, chlamydomonas, algae]

II. FILL IN THE BLANKS:

$\frac{1}{2} \times 6 = 3M$

11. The poisonous gas produced on the incomplete combustion of a fuel is _____.

12. _____ is a device used to measure the force acting on an object.

13. _____ are seats of genetic material that can be seen only when a cell divides.

14. _____ was the first antibiotic prepared against a disease causing bacteria.

15. All animals found in an area are called _____.

16. Friction opposes the _____ between the two surfaces in contact.

III. DEFINE:

$1 \times 2 = 2M$

17. Calorific Value

18. Electrostatic force

IV. REWRITE THE STATEMENTS CORRECTLY:

$1 \times 2 = 2M$

19. In the sun, heat and light are produced by physical reactions.

20. Female Anopheles mosquito is a carrier of malaria causing bacteria.

V. NAME THE FOLLOWING:

$\frac{1}{2} \times 4 = 2M$

21. The place where the world's first oil well was drilled. _____

22. The reserve forest with the finest Indian teak. _____

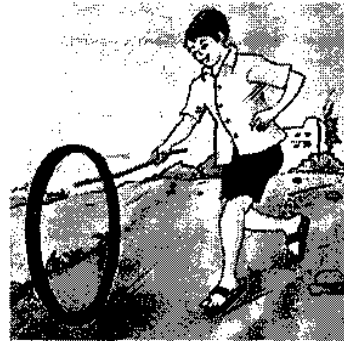
23. The process of conversion of sugar into alcohol. _____

24. The cleaner fuel used in automobiles. _____

VI. DO AS DIRECTED.

1X1=1M

25. Why does the speed of the tyre increase whenever it is pushed?



SECTION—B

VII. ANSWER THE FOLLOWING IN ONE OR TWO SENTENCES: 2X10=20M

26. a] What is pasteurization? b] Name a chemical preservative.
27. Mention any 4 effects of force.
28. What are prokaryotic cells? Give 2 examples.
29. Write a very brief note on biosphere reserves.
30. a] What is rapid combustion?
b] Name the 2 chemicals used to make the head of a matchstick.
31. What do you mean by Refining? Mention the other name of petroleum.
32. a] If the area of your head is 13cmX 13cm, calculate the approximate weight of air you would be carrying on your head.
b] Mention why you are not crushed under this weight.
33. Clarify the statement: lubricants reduce friction.
34. With 2 examples, what are inflammable substances?
35. a] Why does the dough of cake made from flour and yeast rise after some time? b] Name the bacteria that helps in the coagulation of curd.

SECTION-C

VIII. ANSWER THE FOLLOWING IN THREE OR FOUR SENTENCES: 3 x 10 =30M

36. a] What are vaccines? b] Who is the father of immunology known by the vaccine for small pox?
37. Draw an animal cell and label any 4 parts.
38. How do we get the supply of carbon dioxide and point out why it is an excellent fire extinguisher?
39. a] Differentiate between static and sliding friction.
b] Camels have broad feet. Why? [Answer with respect to area and pressure]

40. What is Carbonisation? Write 2 uses of coal.
41. With an example, differentiate between Force of gravity and Gravitational force.
42. a) What are communicable diseases? b) Name the causative organisms of
1] cholera 2] dysentery 3] polio
43. Write a short note on cell membrane.
44. What do you mean by [a] ecosystem [b] endangered animals?
45. a) In a factory, 8 kg of a fuel was completely burnt. The heat produced was measured to be 40,000 kJ. Calculate the fuel efficiency of the fuel burnt. [steps required] b) What do you mean by drag?

SECTION-D

IX. ANSWER IN DETAIL:

5X2=20M

46.

- a) Draw a candle flame and explain any two Zones of the flame. [3 m]
- b) Read the activity carefully: Place a paper cup containing water over a flame. The water will become hot, but the paper cup will not burn. Why? [1 m]
- c) Why does molten wax produce flames while burning? [1 m]

47.

- a) With the help of Nitrogen cycle, prove that the percentage of nitrogen in the atmosphere always remains constant. [3m]
- b) Name 2 essential constituents of all living organisms in which Nitrogen is a part of. [1m]
- c) Specify 1] carrier of dengue virus. 2] a single cell in human blood that can change its shape. [1m]
