

Name:

Roll No:



**INDIAN SCHOOL MUSCAT
MID TERM EXAMINATION- 2017-18**

SCIENCE

Class: VIII

Date: 17.09.2017

Total Marks: 80

Duration: 2 ½ hrs.

Instructions:

- Questions 1-3 carry 6 marks each
 - Question 4 carry 7 mark
 - Questions 5-19 carry 1 mark each
 - Questions 20 to 29 carry 2 marks each
 - Questions 30 to 34 carry 3 marks each
 - Question 35 carries 5 marks.
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ALL ANSWERS SHOULD BE WRITTEN IN THE ANSWER SHEET PROVIDED

Q1. FILL IN THE BLANKS:-

- a) There will be a force of _____ between a charged body and an uncharged body.
- b) The device used for measuring force _____.
- c) The process of separating the various constituents of petroleum is known as _____
- d) The most common fire extinguisher is _____.
- e) Marble cancer caused by _____.
- f) The star that is nearest to the earth after the Sun is _____.

Q2. CHOOSE THE CORRECT ALTERNATIVE AND WRITE THE ANSWER:-

- a) A suitable term for the various components of cells is
 - i) tissue ii) cell organelles iii) chromosomes iv) genes
- b) The fibre made up by the chemical treatment of wood pulp is
 - i) Rayon ii) Nylon iii) Polyester iv) none of these
- c) Exhaustible natural resources are
 - i) unlimited in quantity ii) not dependent on nature
 - iii) limited quantity iv) not exhausted by human activities.

- d) Combustion is a chemical reaction in which a substance reacts with
- i) Hydrogen ii) Nitrogen iii) Oxygen iv) Chlorine
- e) The largest planet is
- i) Mercury ii) Mars iii) Jupiter iv) Saturn
- f) Chlorofluorocarbon is used in
- i) Refrigerators ii) Air conditioners iii) Aerosol sprays iv) All of these

Q3. STATE TRUE OR FALSE: -

- a) Force has magnitude and direction.
- b) The substances that reduce friction are called lubricants.
- c) Teflon is used as coating on non-stick cook wares.
- d) Coal is a pure form of carbon.
- e) Charcoal is an inflammable substance.
- f) Cholera is water borne disease.

Q4. NAME THE FOLLOWING: -

- a) Green coloured plastids found in plant cells.
- b) Synthetic fibres that resemble wool.
- c) The slow process of conversion of dead vegetation into coal.
- d) The lowest temperature at which a substance catches fire.
- e) Water which is fit for drinking.
- f) A celestial body that revolves around a planet.
- g) The amount of heat energy produced on complete combustion of 1Kg of a fuel in Oxygen

Q5. State any two effects of force?

Q6. There is a huge amount of atmospheric pressure acting on us but we do not experience its effect. Why?

Q7. Why do porters wear turban when they carry heavy loads on their heads?

Q8. What is the cause of friction?

Q9. Why do kabaddi players rub their hands with soil?

Q10. How do ball bearings reduce friction in machines?

Q11. It is not advisable to wear synthetic clothes while working in a kitchen. Why?

- Q12. State any two tips to save petrol/diesel while driving.
- Q13. What is the full form of CNG? Write one of its advantages.
- Q14. Which zone of flame does goldsmith use for melting gold and silver? Why?
- Q15. What is acid rain? Write one of its effects.
- Q16. Name any two greenhouse gases
- Q17. Name any two sources that cause air pollution.
- Q18. State the two factors that have polluted river Ganga.
- Q19. What do you understand by the term “phases of the moon”?
- Q20. a) What is muscular force? Why is it called a contact force?
b) Give two examples of non contact forces.
- Q21. There are two stones A and B of equal mass. Stone A is kept on a wooden plank of area 5m^2 and stone B is kept on a wooden plank of area 2m^2 . Which stone will apply more pressure on the ground? Why?
- Q22. “Friction is a necessary evil.” Justify this statement by giving examples.
- Q23. What is drag? State any two factors on which it depends.
- Q24. a) What are Chromosomes? Write its function.
b) Amoeba can change its shape. Give two ways by which this characteristic helps Amoeba.
- Q25. a) Name the first artificial fibre. Write any two of its properties.
b) What are biodegradable materials?
- Q26. Name the constituent of petroleum which is used as
a) Aero plane fuel b) Solvent for dry cleaning
c) Road surfacing d) Fuel for home and industries
- Q27. What type of combustion is represented by
a) Burning of white phosphorous in air at room temperature?
b) Burning of LPG in a gas stove?
c) Ignition of Crackers?
d) Burning of coal dust in a coal mine?
- Q28. What is smog? Name two diseases caused by it.
- Q29. a) What are constellations?
b) Name the brightest star in the night sky and also Name the constellation that helps to locate it.

Q30. a) Write any two differences between stars and planets.

b) Give any two uses of artificial satellite

Q31. a) What are thermosetting plastics? Give two examples.

b) How are they different from thermoplastics in arrangement of their units?

Q32. Name any three useful products obtained from the coal when it is processed in industry and also write one use of each product.

Q33. a) What is the difference between eukaryotic and prokaryotic cells?

b) Name the largest cell.

c) Draw a neat diagram of nerve cell and write its function.

Q34.a) Write any four characteristics of a good fuel.

b) You can boil water in a paper cup without burning the paper. Explain.

Q35. Observe the following cell and answer the following questions.

a) Label the parts **B, D & E**.

b) Write the function of A, **F & G**

c) Write any two similarities between this cell and the human cheek cell?


