

SHERBORNE SCHOOL

ENTRANCE SCHOLARSHIP EXAMINATION 1970

General Paper

(2 hours)

This paper consists of FIVE sections. Candidates must answer a total of four questions, taking them from at least three sections.

Each answer must be written on a separate sheet, which should bear the heading of the section from which the question was taken.

SCRIPTURE

1. Describe the arguments and clash of personalities between EITHER Moses and Pharoah OR Elijah and Ahab in the Old Testament.
2. "Render unto Caesar the things that are Caesar's, and unto God the things that are God's."

In this quotation Jesus shows the Pharisees his belief that the Christians should observe man-made laws yet still keep God's laws. Explain this teaching more fully and describe a modern example where following it might cause hardship.

3. Why is the commandment Jesus gave his disciples, to "love each other as God has loved you", so central and important in Christianity?

HISTORY

1. How would you distinguish between good and bad history books?
2. Is historical truth stranger than historical fiction?
3. Describe a decisive battle and explain what it decided.
4. What was the influence of the Church in medieval England?
5. What were the most important factors in the rise of the British Empire?
6. Which has had the greater influence upon the twentieth century, war or revolution?

[TURN OVER]

GEOGRAPHY

1. If you could own one square mile of land on the earth's surface which square mile would you choose? Justify your choice.
2. Why do thousands migrate to Britain each year and thousands of others leave?
3. What do you think are the most significant developments in transport and communication in the period since 1945.
4. Where in the world do you find irrigation being used? Explain the need for it in the areas you select.

SCIENCE

1. You are given a sample of a rock brought back from the moon and asked to write a full report on it. Describe the tests you would carry out to determine its properties and write an imaginary description of the sort of results you might obtain.
2. You are given a $1\frac{1}{2}$ volt torch battery, three torch bulbs and some wire. Draw diagrams showing the different possible ways in which all three bulbs can be connected to the battery in the same circuit.

Which arrangement will give the most light?

In which arrangements will one bulb be brighter than the other two?

In which arrangement can one bulb be disconnected without affecting either of the other two?

Give reasons for the last three questions.

3. A new element, Shirburnium, has recently been discovered. It conducts electricity and reacts vigorously with dilute sulphuric acid to give a gas which burns with a squeaky pop.
 - (a) What are the products of the reaction with dilute sulphuric acid?
 - (b) Explain carefully how a solution of Shirburnium chloride would conduct electricity.
 - (c) Is the element a metal or a non metal and why?
 - (d) How would it react when heated with (i) air (ii) steam?
 - (e) What would happen if a piece of it was dipped into copper sulphate solution?

4. When 100 cm^3 of air is passed over some hot copper which had previously been weighed, its volume decreased to 80 cm^3 and the weight of the copper increased by 0.028 gm . The experiment was repeated using red lead instead of copper but this time the volume of the air increased to 150 cm^3 and the weight of the red lead decreased by 0.071 gm .
 - (a) Explain why the volume of the air changed in both experiments.
 - (b) Explain why the weights changed in both experiments.
 - (c) Calculate the density of the gas used in the first experiment, and the density of the gas produced in the second experiment.
 - (d) Calculate the volume to which the gas at the end of the second experiment would decrease if passed over hot copper.
5. Discuss movement as carried out by three *named* animals. Include in your discussions:
 - (a) the type of structures involved.
 - (b) the way in which the organs involved in movement, and the type of movement itself, is especially adapted to the particular animal's needs.
6. Write a biological essay on flowers.
7. Discuss the requirements of optimum growth in plants. Say how the plants' organs are adapted for using the requirements.

ART

1. The year is 1980. A new museum of modern art has just been built. Write an imaginary description of the contents of its principal room.
2. It was said of William Blake that "to walk with him in the country was to perceive the soul of beauty through the forms of matter." What do you think this means?
3. Describe any ONE well known painting by one of the Great Masters. Name the artist and the painting and make comments about its importance.
4. Describe the changing styles of architecture in England from the times of the Normans. Can you give reasons for any of these changes?