

7. How is Sulphur Dioxide prepared? What are its properties and uses?
8. What do you understand by the statement that Carbon can do chemical work?
9. State briefly how you prepare the two Oxides of Carbon. Compare them as to their properties.
10. Give the formulae of any five of the following compounds: Potassium Chlorate, Zinc Sulphate, Sodium Hydroxide, Marsh Gas, Sodium Sulphite, Borax, Orthophosphoric Acid.

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### PHYSICS.

WEDNESDAY, SEPT. 21ST:—MORNING. 9 TO 10.30.

1. Show the meaning of the following terms by describing one experiment to illustrate each:—*Viscosity, Adhesion, Porosity, Elasticity, Crystallization.*
2. Describe and explain the action of the Common Suction Pump.
3. How would you prove experimentally that a body immersed in water is supported by a force equal to the weight of water displaced?  
A stone weighs 3 ounces in air and 2.54 ounces in water. What is its specific gravity?
4. Two pendulums are 2 and 5 feet long respectively. How many swings will the first make while the second swings 4 times?
5. What principles are illustrated in (1) a pair of nutcrackers, (2) the use of a pole for balancing on a tight rope?
6. Given a mercury thermometer tube filled and closed; how would you proceed to graduate it on the Fahrenheit scale? What centigrade temperature corresponds to 62° Fahrenheit?
7. Explain the different ways in which heat can travel from one object to another, and show where each is employed in transferring heat from the blazing coals in the furnace of a hot water-house warming system to a person in one of the upper rooms.

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The examination papers in the professional subjects of the First, Second, Third and Fourth Years may be obtained from the Registrar together with the results of the University Examinations of 1899.