

III.

1. What takes place when a mixture of charcoal and copper oxide is heated? Give the formula and properties of the gas produced.

2. How is hydrogen sulphide prepared? What are its properties? Explain its use in chemical analysis.

3. What theory has been suggested to explain the laws of definite and multiple proportions? Show how the theory accounts for the facts.

GREEK.

XENOPHON, ANABASIS BOOK I.

FRIDAY, JUNE 15TH :—MORNING, 9 TO 10.30.

1. Translate with brief explanation of the constructions underlined :—

(a) Ἀρίστιππος δὲ ὁ Θετταλὸς ξένος ὧν ἐτύγχανεν αὐτῷ, καὶ πιεζόμενος ὑπὸ τῶν οἴκοι ἀντιστασιωτῶν ἔρχεται πρὸς τὸν Κῦρον καὶ αἰτεῖ αὐτὸν εἰς δισχιλίους ξένους καὶ τριῶν μηνῶν μισθόν, ὡς οὕτως περιγεγόμενος ἂν τῶν ἀντιστασιωτῶν

(b) Τισσαφέρνης δὲ κατανόησας ταῦτα, καὶ μείζονα ἡγησάμενος εἶναι ἢ ὡς ἐπὶ Πισίδας τὴν παρασκευὴν πορεύεται ὡς βασιλέα ἢ ἐδύνατο τάχιστα ὑππέας ἔχων ὡς πεντακοσίους.

(c) Κλέαρχος δὲ τότε μὲν μικρὸν ἐξέφυγε μὴ καταπετρωθῆναι. ὕστερον δὲ ἐπεὶ ἔγνω ὅτι οὐ δυνήσεται βιάσασθαι, συνήγαγεν ἐκκλησίαν τῶν αὐτοῦ στρατιωτῶν.

(d) ἦν γὰρ ψηφίσωνται ἔπεσθαι, ὑμεῖς δόξετε αἴτιοι εἶναι ἄρξαντες τοῦ διαβαίνειν, καὶ ὡς προθυμοτάτοις οὖσι ὑμῖν χάριν εἴσεται Κῦρος καὶ ἀποδώσει ἐπίσταται δὲ εἰ τις καὶ ἄλλος.

(e) τὸ δὲ σύμπαν δῆλος ἦν Κῦρος ὡς σπεύδων πᾶσαν τὴν ὁδὸν καὶ οὐ διατρίβων ὅπου μὴ ἐπισιτισμοῦ ἕνεκα ἢ