

ORGANIC CHEMISTRY SPECIAL

Course Code: CHEM-4102

Marks- 20

(1) a) Give an idea about Sulfonium ylides?

1+2+5+2=10

b) Phosphonium ylides give alkenes while sulfonium ylides give epoxides with comparatively less yield- why?

c) Briefly discuss Horner-Wadsworth-Emmons reaction with possible mechanism.

d) Horner-Wadsworth-Emmons reaction is generally superior to Wittig reaction-explain?

(2) a) What do you mean by Atom Economy? Give some examples.

3+7=10

b) Explain the secondary structure of DNA according to Watson, Crick, and Wilkins model.