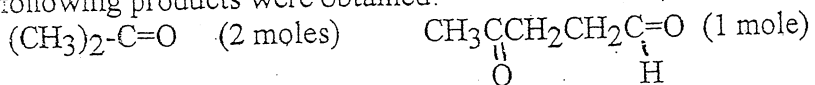


8.

A compound with the formula  $C_{11}H_{20}$  is found to decolorize bromine in carbon tetrachloride. Following treatment of one mole with ozone and dimethylsulfide, the following products were obtained:

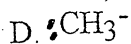
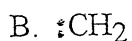
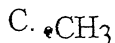
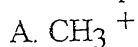


What is the structure of the compound? Explain your reasoning.

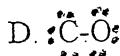
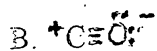
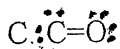
**Multiple Choice**

Please write your response on the line next to the question.

1. In which species does the carbon atom have a share in 7 valence electrons?



2. The most acceptable Lewis structure for CO is



3. What are the hybridizations for the atoms *a*, *b*, and *c* (in that order) for

