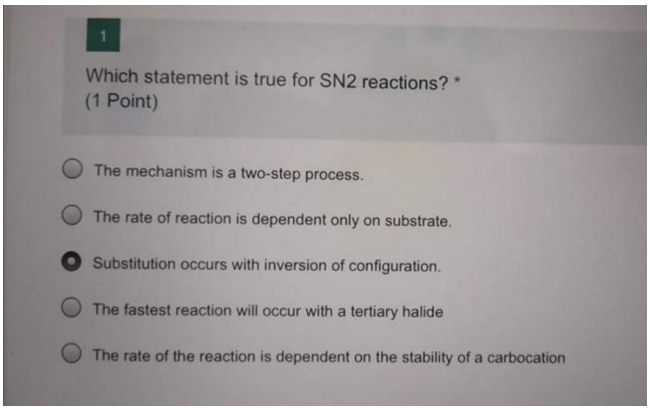
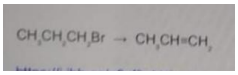
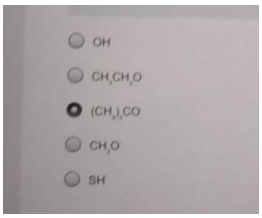
(FINAL Organic)

1-

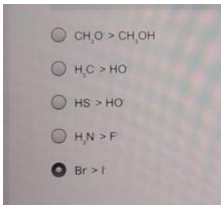


2-Which reagent would you choose for the following reaction?

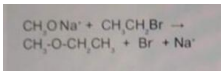


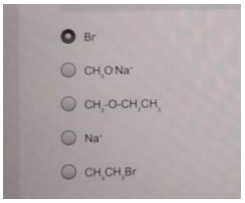


3-Which of the following is an incorrect representation of relative nucleophile strength?

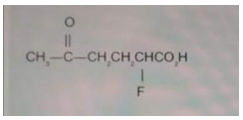


4-what is the leaving group in the following reaction?



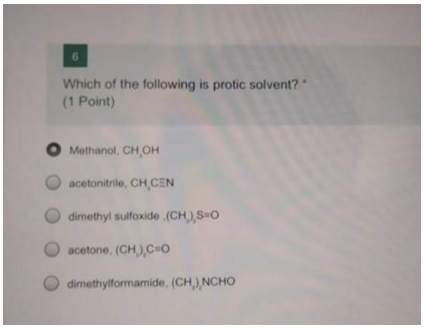


5-Name the following compound

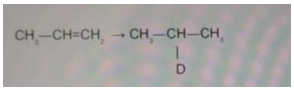


- 6-carboxy-5-fluoro-2-hexanone
- 2-fluoro-5-oxohexanoic acid
- 5-fluoro-2-oxohexanoic acid
- 3-fluoro-6-oxoheptanoic acid
- 1-carboxy-3-fluoro-5-hexanone

6-

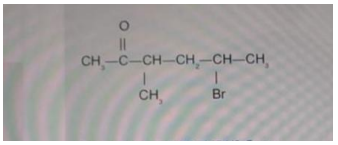


7-Which would be the best way to carry out the following synthesis?



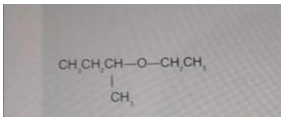
- (1) H_2O / H^+ (2) Mg, ether (3) D_2O
- (1) D_2O (2) Br_2 , $AlBr_3$
- (1) D_2O (2) Mg, ether
- (1) Br_2 (2) Mg, ether (3) D_2O
- (1) HBr (2) Mg, ether (3) D_2O

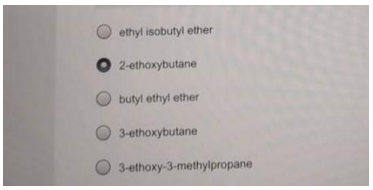
8-What is the IUPAC name for the following molecule?



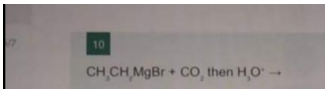
- 2-bromo-4-methyl-5-hexanone
- 1-bromo-1,3-dimethyl-4-pentaneone
- 5-bromo-3-methylhexanone
- 5-bromo-3,5-dimethyl-2-pentaneone
- 5-bromo-3-methyl-2-hexanone

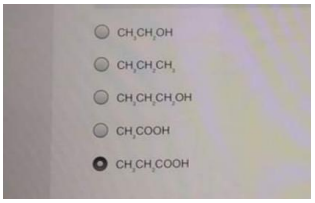
9-What is the IUPAC name for the following molecule?



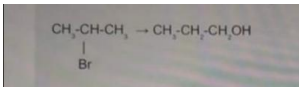


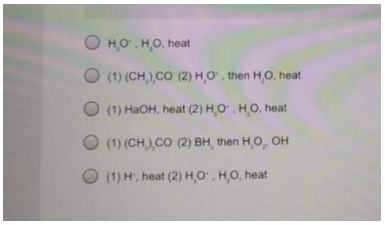
10-



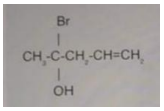


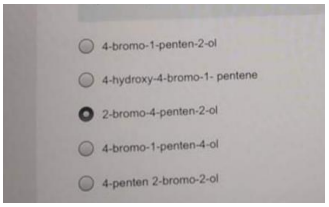
11-which would be the best way to carry out the following synthesis?



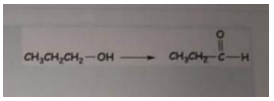


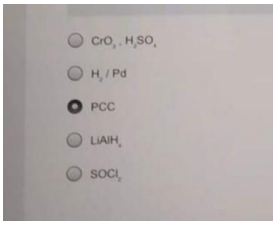
12-the correct IUPAC name for the following molecule?



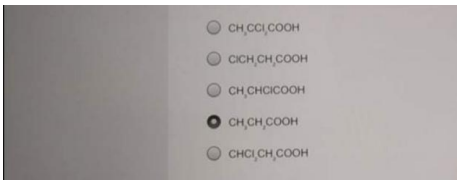


13- Which reagent will accomplish the following transformation?

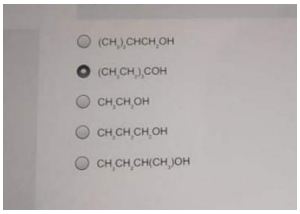




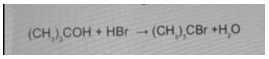
14-Which of the following is the weakest acid?

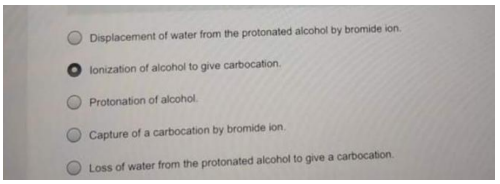


15- Which of the following alcohols would react most rapidly under SN1 conditions?

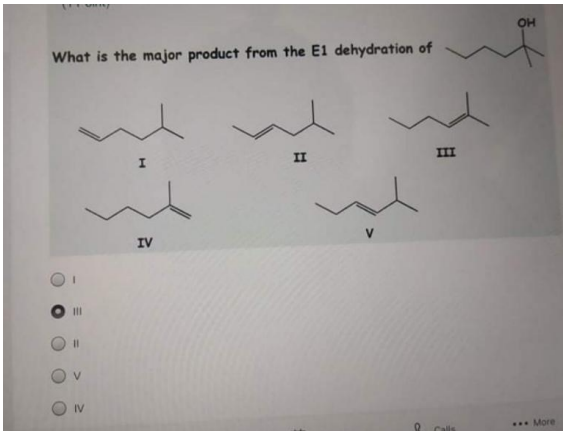


16-the rate determining step in the following reaction is?

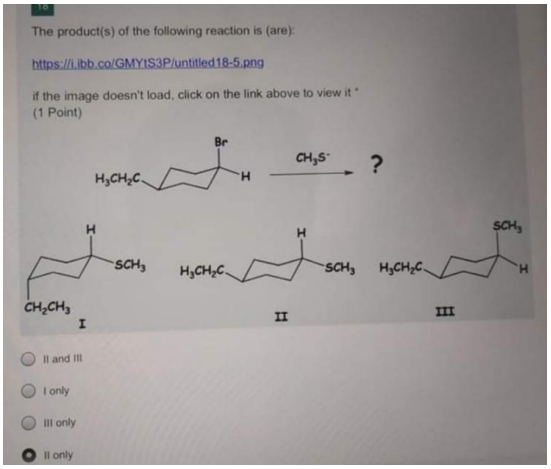




17-



18-



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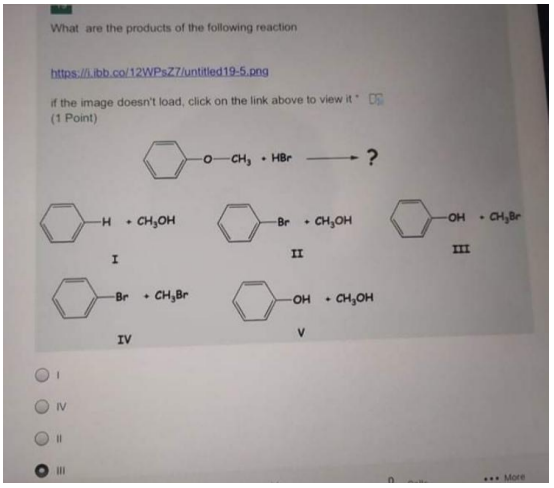
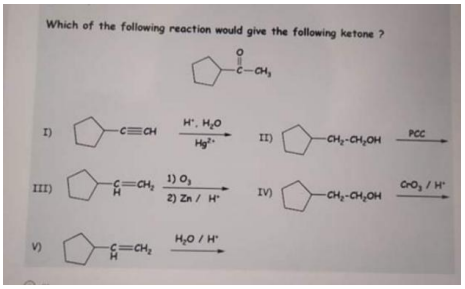
19-

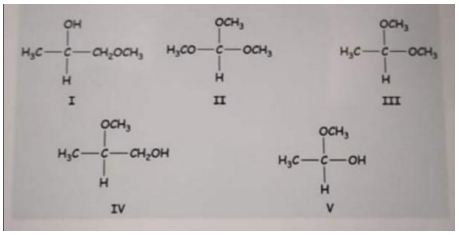


20-



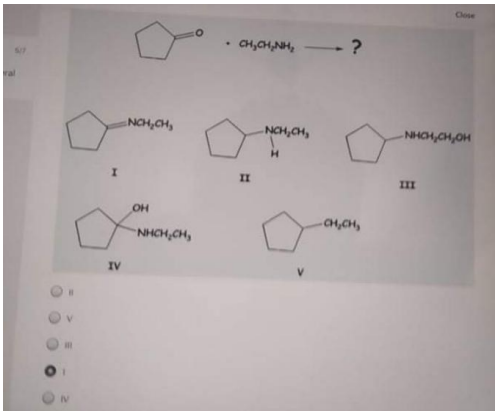
A,,,1
B,,, 2
C,,,3
D,,,4
E,,,4

21-Which of the following is hemiacetal??

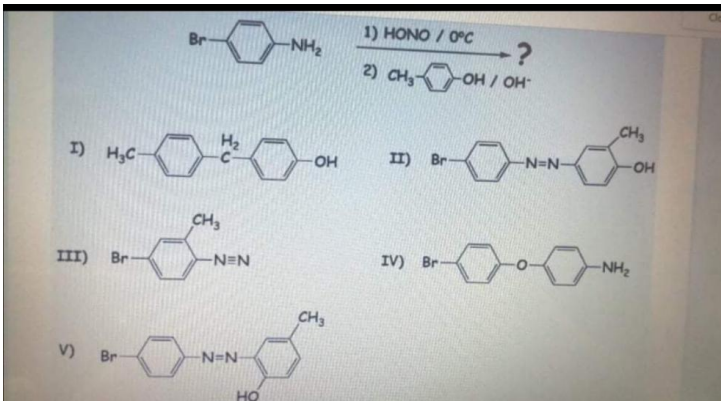


A,,, 1
B,,,,2
C,,, 3
D,,,,4
E,,,,5

22-

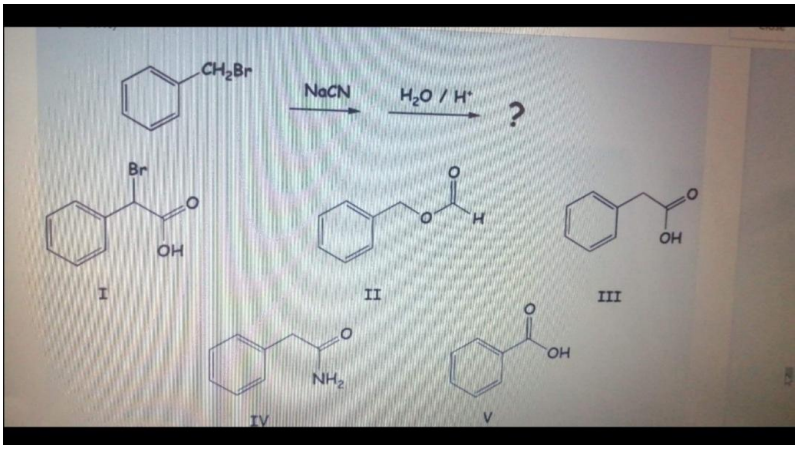


23-



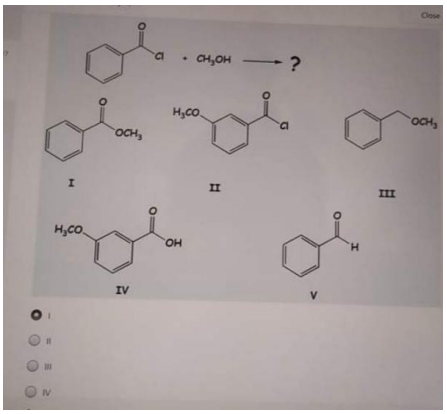
A,,, 1
B,,,,2
C,,,,3
D,,,,4
E,,,,5

24-



A,,, 1
B,,,,2
C,,,,3
D,,,,,4
E,,,,,5

25-



Don’t give up…. 🌸