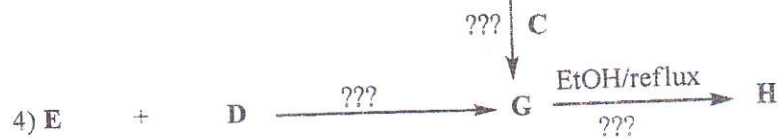
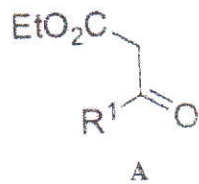
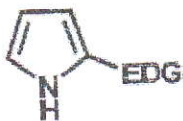


التمرين الثالث (7 نقاط):

I- أكمل التفاعلات التالية بتحديد جميع المركبات و تسمية كل تفاعل



II- قارن تفاعلية المركبات التالية



مجموعة مانحة للإلكترونات : EDG



مجموعة ساحبة للإلكترونات : EWG

Nomenclature

a : acide 1,3,4-oxadiazole-2-carboxylique.

0.50

b : 5,6-dichloro-benzo[e]azol-1-one.

0.50

c : 7,8-dimethoxybenzo[d][1,3,6]oxadiazépine

0.50

d : 4,7-dihydrooxino[2,3-b]pyrrole.

0.50

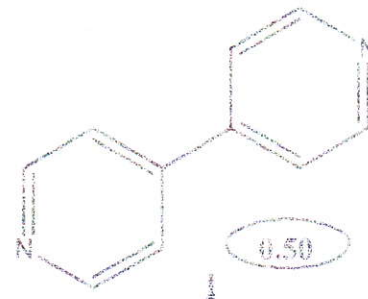
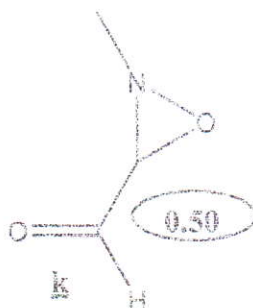
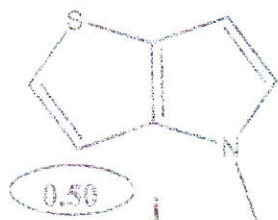
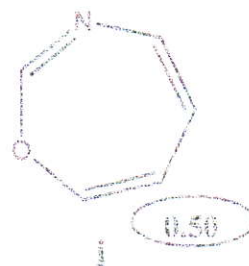
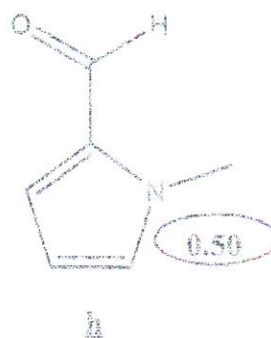
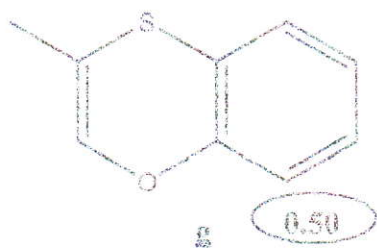
e : Thiolo[2,3-b]oxole.

0.50

f : 3,3'-biazète

0.50

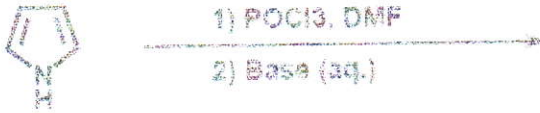
Structures chimiques :





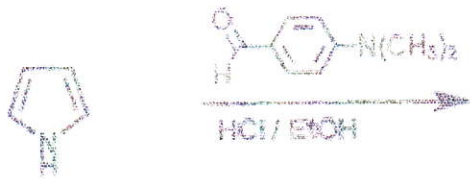
A 1.00

Cycloaddition de Diels-Alder



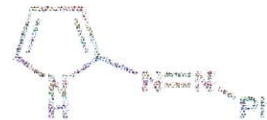
B 1.00

Formylation de Wilsmeier-Haak



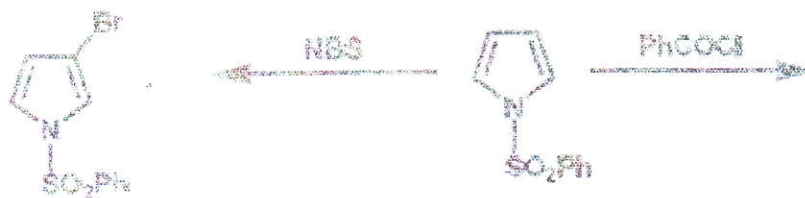
C 1.00

Réaction d'Erlich



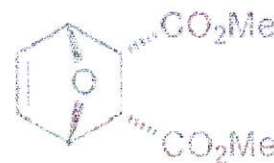
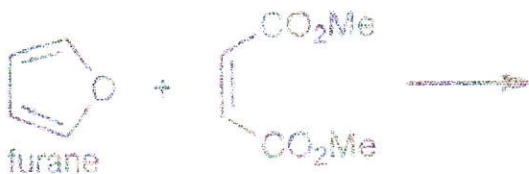
D 1.00

diazotisation



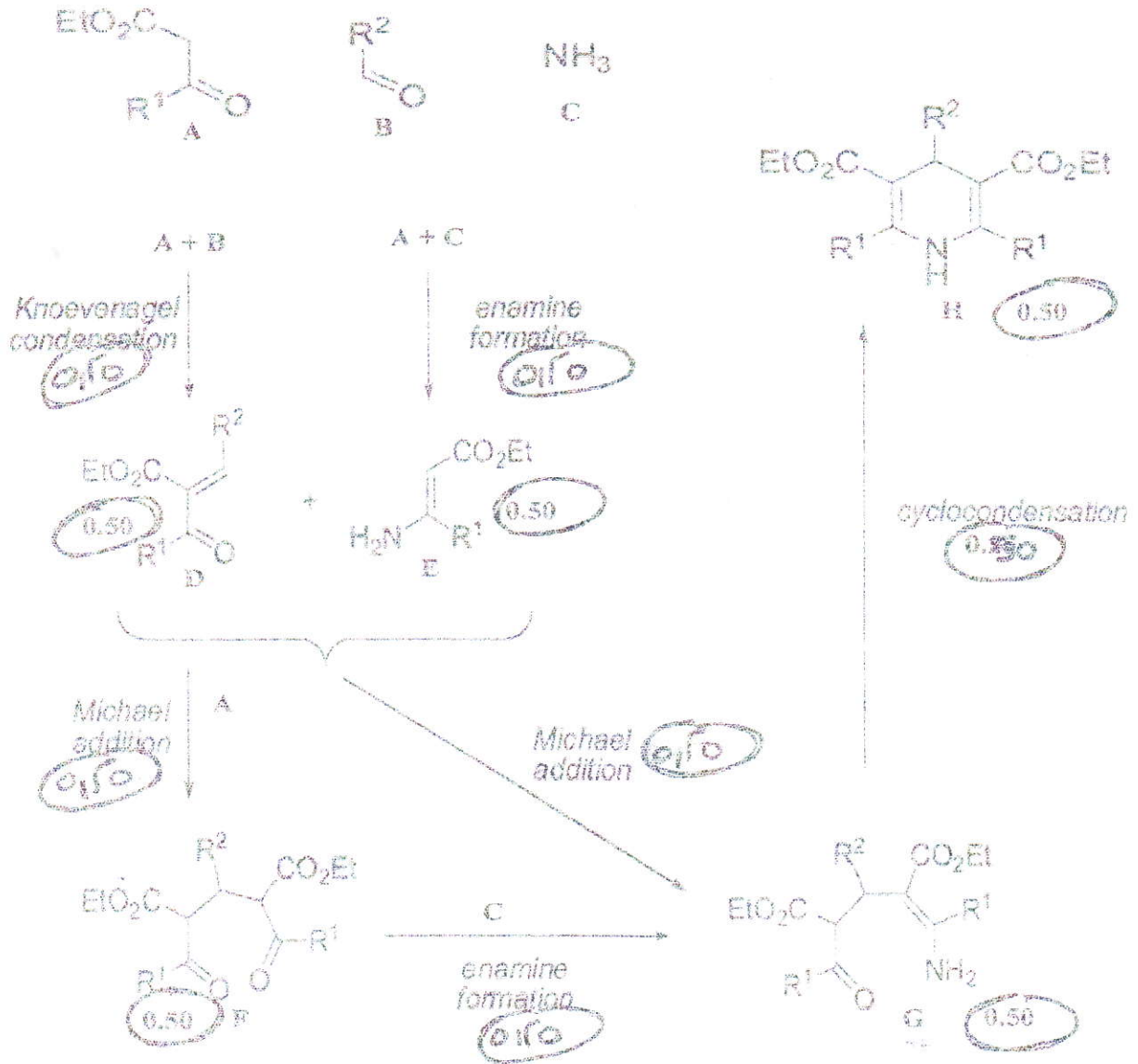
E 1.00
Bromation 1.00

F 1.00
Acétylation 1.00



G 1.00

Cycloaddition de Diels-Alder 1.00



II.



EDG : مجموعة مانحة للإلكترونات

EWG : مجموعة ساحبة للإلكترونات

+

Reactivité

1.50