



PA-003-1103006

Seat No. _____

M. Sc. (Sem. III) (CBCS) Examination

May / June - 2018

C(OP) - 302 : Organo-Pharmaceutical Chemistry

(Organic Synthesis - A Disconnection Approach) (Core)

Faculty Code : 003

Subject Code : 1103006

Time : $2\frac{1}{2}$ Hours]

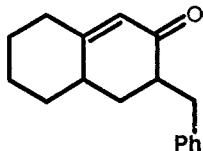
[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) All Questions carry equal marks.
(3) Attempt all questions.

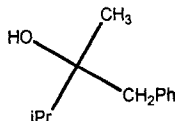
1 Answer the followings : (any seven)

14

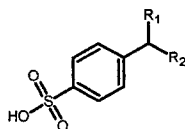
- (a) Do the disconnection and plan the synthesis for following using Mannich reaction :



- (b) Define Synthons by citing proper example.
(c) Giving suitable examples, explain the synthetic equivalent.
(d) Give the disconnection and plan the synthesis of



- (e) Explain Illogical disconnection with suitable example.
(f) Explain: Unpolung reaction with suitable example.
(g) Explain the term "Order of events" considering following molecules :

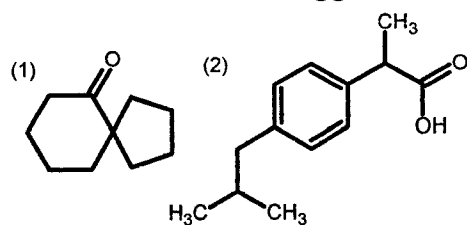


- (h) Do the disconnection and plan the synthesis of Piperonal.
(i) Explain: "FGI" with suitable example.
(j) Define the terms: "Target Molecule" and explain it.

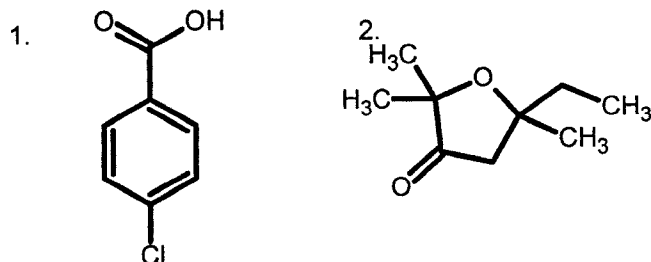
2 Answer the following : (any three)

14

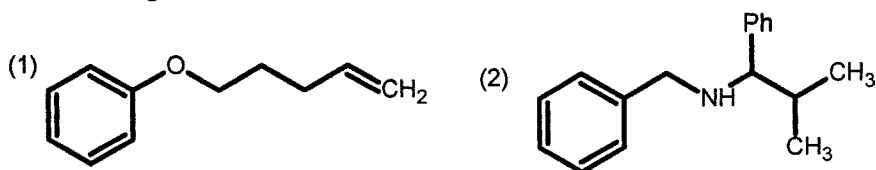
(a) Do the disconnection and suggest the synthesis of :



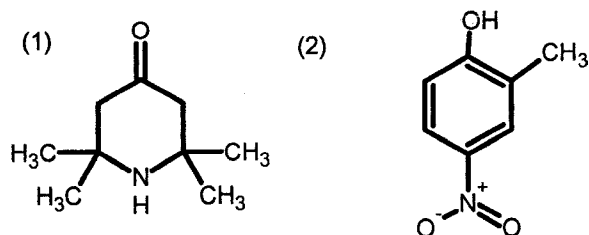
(b) Explain the retero-synthetic analysis and write the synthesis of following target molecules :



(c) Do the disconnection and plan the synthesis for the following :



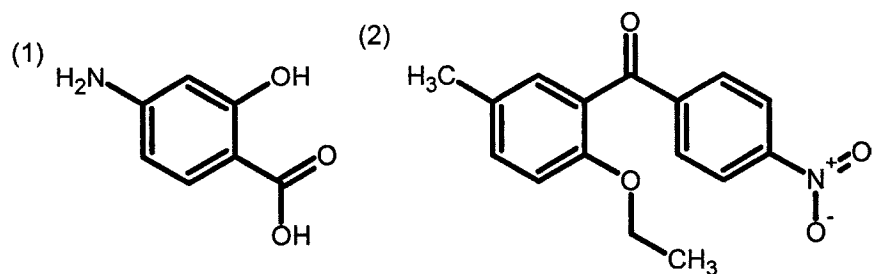
(d) Synthesis the following molecules using disconnection plan :



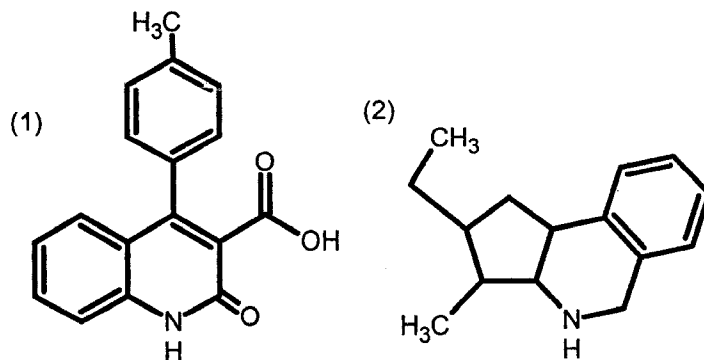
3 Answer the following : (any two)

14

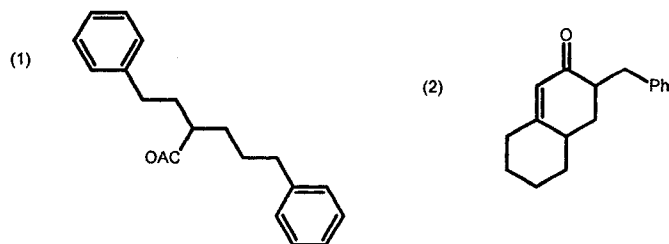
(a) Give the retero synthesis of followings and plan their synthesis :



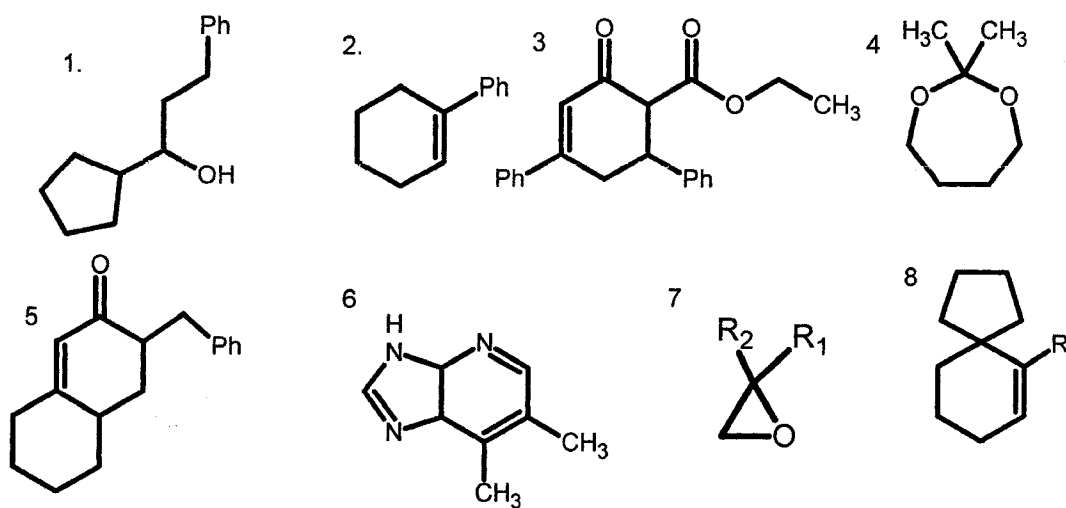
(b) Write the retero-synthesis of followings and plan their synthesis :



(c) Explain the retero-synthesis of followings and plan their synthesis :



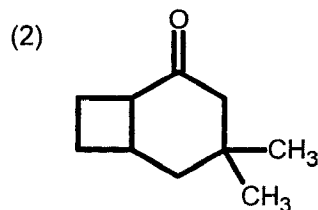
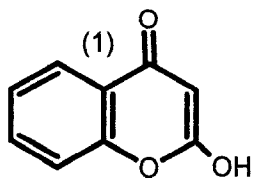
4 Disconnect the following Target molecules and plan their synthesis : (any six) 14



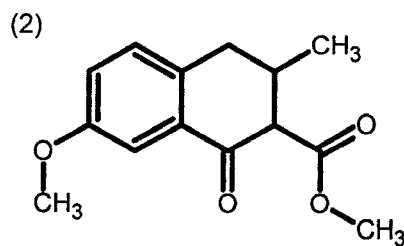
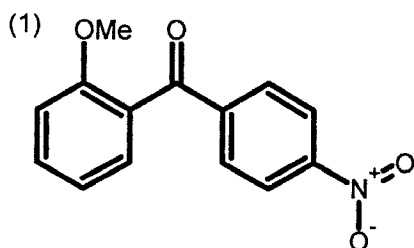
5 Answer the following : (any three)

14

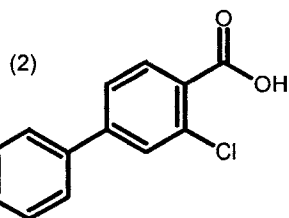
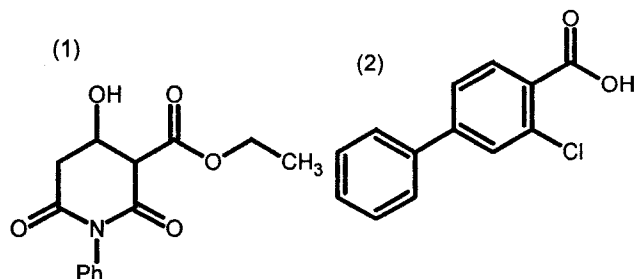
(a) Do the disconnection and plan the synthesis for the following :



(b) Do the disconnection and plan the synthesis for the following :



(c) Do the disconnection and plan the synthesis for the following :



(d) Do the disconnection and plan the synthesis for the following :

