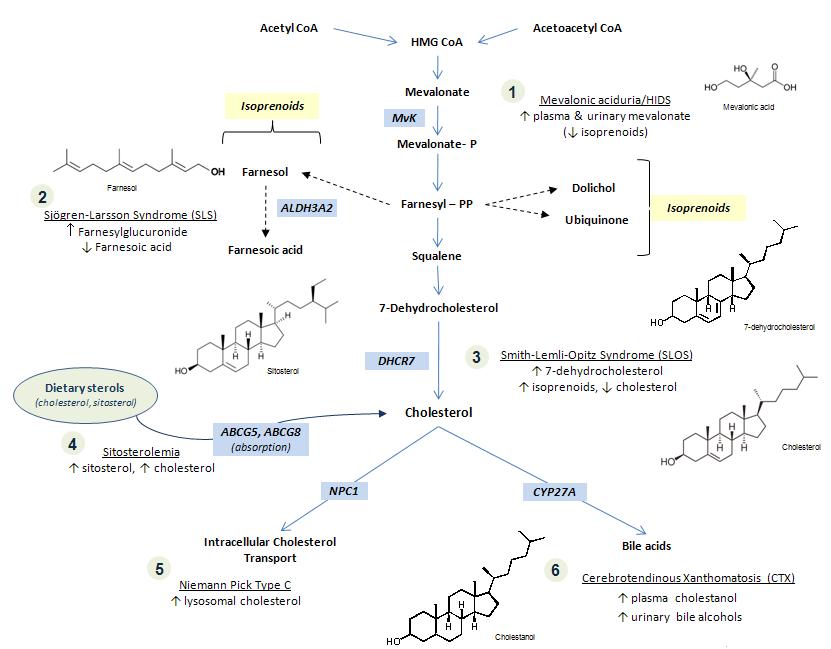
**Agricultural Biochemistry Dept. May: 2016**

**Advanced Lipid chemistry ( 60 marks) Time: 2 hours**

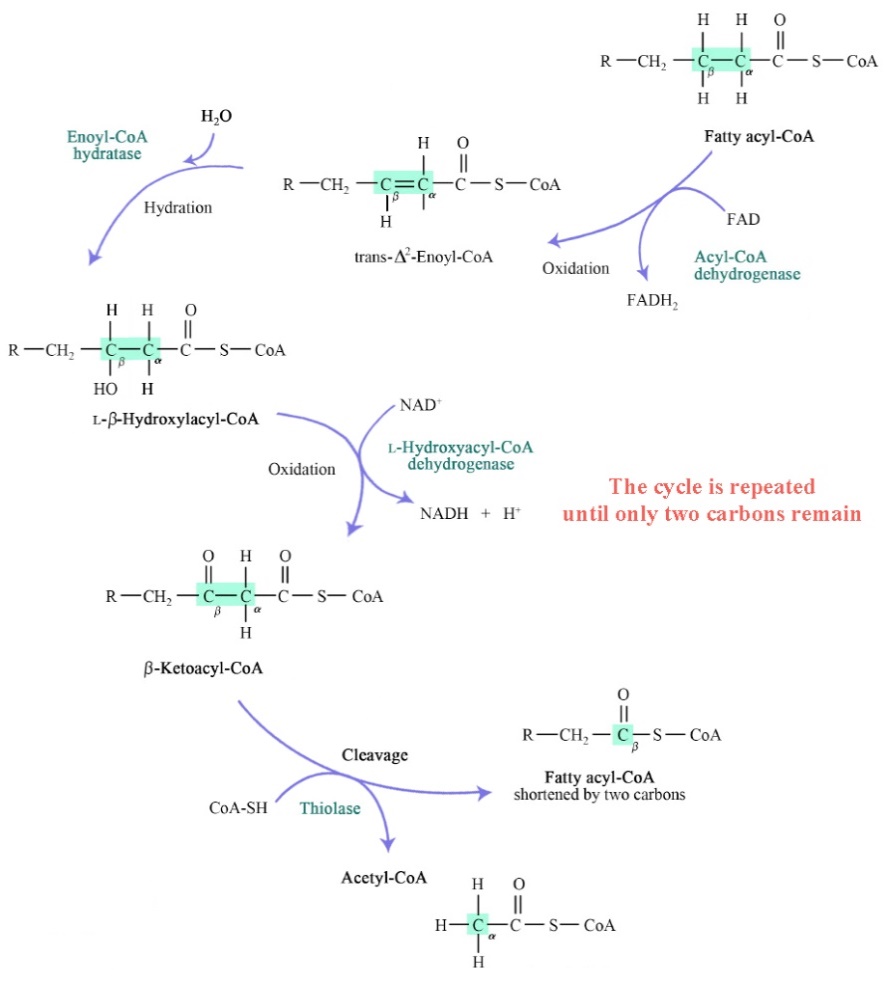
**Advanced Lipid chemistry**

**Model Answer**

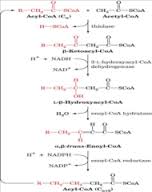
1. **Biosynthesis of cholesterol**

[](https://www.google.com.eg/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjMnPm_gILNAhVJWRQKHQuWC7kQjRwIBw&url=https://www.ohsu.edu/xd/health/services/doernbecher/research-education/research/research-labs/steiner-lab-current-projects.cfm&psig=AFQjCNFAy_U4E3I4emgK-GYivXlxXfmg0Q&ust=1464704738050428)

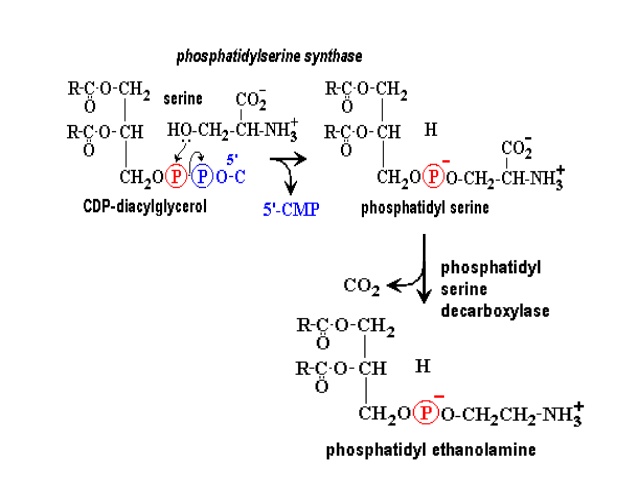
**B- Oxidation of saturated fatty acid ( stearic acid ).**

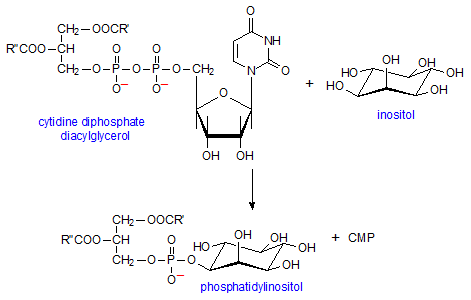
[](http://www.google.com.eg/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=0ahUKEwjMn4jqgYLNAhVDWhQKHbEoCy0QjRwIBw&url=http://oregonstate.edu/instruct/bb350/ahernmaterials/a21.html&bvm=bv.123325700,d.d24&psig=AFQjCNH3ANNJfQ6edNKttgvNTrAw7UX89Q&ust=1464705094029256)

**Biosynthesis of Palmatic acid**

[](https://www.google.com.eg/imgres?imgurl=https://o.quizlet.com/mOaruTeUW5.Q2CK-Q2ImSg_m.png&imgrefurl=https://quizlet.com/18627726/bcii-fatty-acid-biosynthesis-p2-flash-cards/&docid=9vVkVlbxgZdExM&tbnid=GBCDXhpECgGKCM:&w=190&h=240&bih=673&biw=1366&ved=0ahUKEwiE3er8goLNAhWIWRQKHW2EDbI4ZBAzCDkoNjA2&iact=mrc&uact=8)

**Biosynthesis of phospholipid**

[](http://www.google.com.eg/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwig-LL4g4LNAhVC0xQKHZIHAw0QjRwIBw&url=http://www.slideshare.net/nyachweezy/bds-sphingolipid-synthesis&bvm=bv.123325700,d.d24&psig=AFQjCNGP7ExwGMeQ4vo6oN0i-6h-nk4eUA&ust=1464705550325430)

[](http://www.google.com.eg/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=0ahUKEwiolJ3BhILNAhVDQBQKHSAhBHoQjRwIBw&url=http://lipidlibrary.aocs.org/Primer/content.cfm?ItemNumber=39357&bvm=bv.123325700,d.d24&psig=AFQjCNE-D6q2JG8gGbhdMOamzm_TKnePzQ&ust=1464705809020834)

**Second Question :- (14 marks)**

**Choose the correct answer**

1. **B**
2. **D**
3. **D**
4. **B**
5. **C**
6. **D**
7. **C**
8. **C**
9. **C**
10. **A**
11. **A**
12. **B**
13. **C**
14. **c**