Dr. Desai's section: Select the choice that best answers/completes/matches the question. 4 questions / 13 points

1. **Identify whether the following statements are true (T) or false (F).** **4 pts**

   A) Low molecular weight heparins have less number of sulfate groups for every glucosamine and uronic acid disaccharide repeating sequence — **TRUE** or **FALSE**

   B) Heparin pentasaccharide (or fondaparinux) is not effective in leading to inhibition of thrombin — **TRUE** or **FALSE**

   C) Heparins require the presence of antithrombin to exhibit their anticoagulant effect — **TRUE** or **FALSE**

   D) Oral bioavailability of unfractionated heparin is not good because it is a very long polymer — **TRUE** or **FALSE**

2. **The oral bioavailability of warfarin is good because** **3 pts**

   A) warfarin is a small hydrophobic molecule with some hydrophilicity
   B) warfarin is able to bind to inhibit gastric enzymes, thereby preventing its breakdown in the stomach
   C) warfarin is a small highly charged molecule, which helps transport across the GI lining
   D) none of the above

3. **Anticoagulants are molecules that prevent the formation of** **3 pts**

   A) platelet plug
   B) fibrin
   C) antithrombin
   D) none of the above

4. **Which of the following chain(s) is/are expected to exhibit normal anticoagulant activity?**
[Circle clearly so that TA is not left in doubt.] **3 pts**

A) A heparin chain of ~10 residues containing sequence 1 but lacking sequence 2

B) A heparin chain of ~10 residues containing sequence 2 but lacking sequence 1

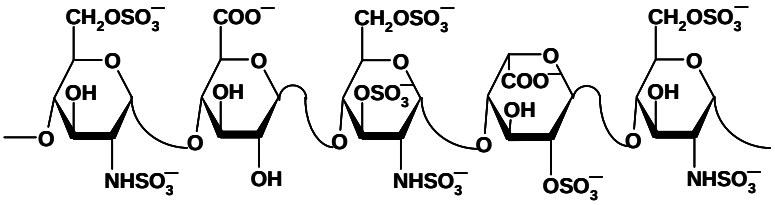
C) A heparin chain of ~10 residues containing both sequence 1 and 2

D) A heparin chain of ~10 residues containing neither sequence 1 nor 2

E) A heparin chain of ~10 residues containing sequence 1 only

F) A heparin chain of ~10 residues containing sequence 2 only

Sequence 1



Sequence 2