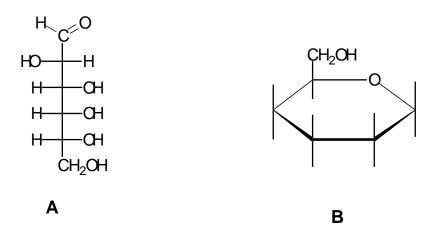
CH1020 Exam 3 Name\_\_\_\_\_\_Seat No\_\_\_\_\_\_

1. For the carbohydrate whose Fischer projection is given by **A**, depict the  $\alpha$  form of the cyclic hemiacetal by adding appropriate H or OH groups in cyclic sturcture **B**. (15%)



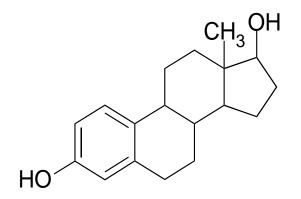
2. Cellobiose is disaccharide containing two D-glucose molecules with a  $\beta(1->4)$  glycosidic linkage. Draw celloboise. (10%)

3. Draw a Fischer projection of an aldopentose. (10%)

4. Draw the structure a triglyceride (fat) which gives glycerol, lauric acid, palmitic acid, and oleic acid upon hydrolysis. (10%)

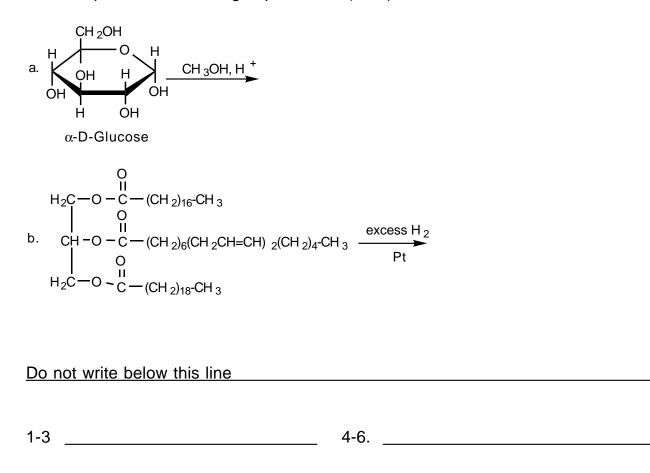
5. Draw a Fischer projection of the zwitterionic form of S-phenylalanine. (10%)

6. Circle the tetrahedral stereocenters in the steroid below. (10%)



7. Draw the structure of the tripeptide Ala-Asp-Met that would be present at physiological pH. (15%)

8. Complete the following equations. (20%)



7-8.	Total minus

Name	_Grade