

The Open University of Sri Lanka  
B. Sc. Degree / Continuing Education Programme 2006/2007  
Biophysics & Biochemistry - Level 3 (L) - CHU 1140 / CHE 3140

BIOCHEMISTRY

Assignment Test 11

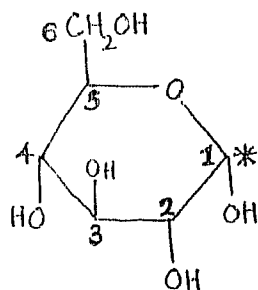
Answer Guide

PART A

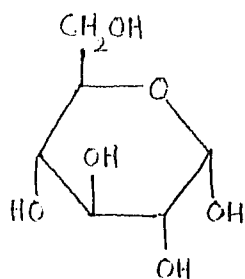
- |       |       |
|-------|-------|
| 1) c  | 11) c |
| 2) d  | 12) c |
| 3) a  | 13) a |
| 4) b  | 14) a |
| 5) d  | 15) d |
| 6) a  | 16) b |
| 7) d  | 17) a |
| 8) d  | 18) b |
| 9) a  | 19) b |
| 10) a | 20) a |

PART B

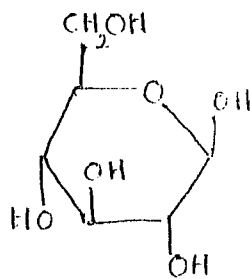
1. a)



d) Anomers are sugars that differ in the stereochemistry only at the hemiketal or hemiacetal carbon.

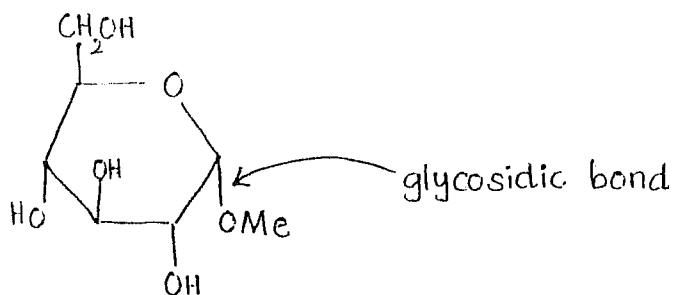


$\alpha$ -D-glucopyranose

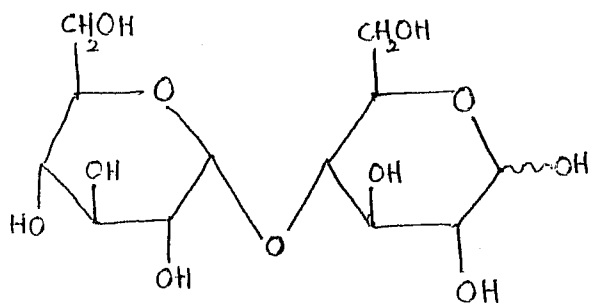


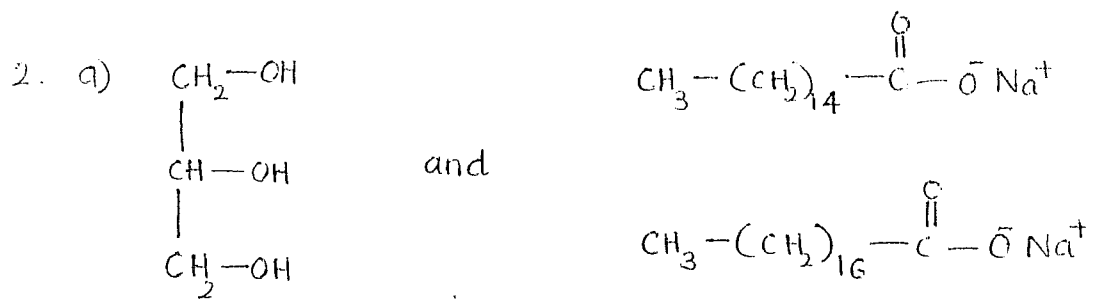
$\beta$ -D-glucopyranose.

e)

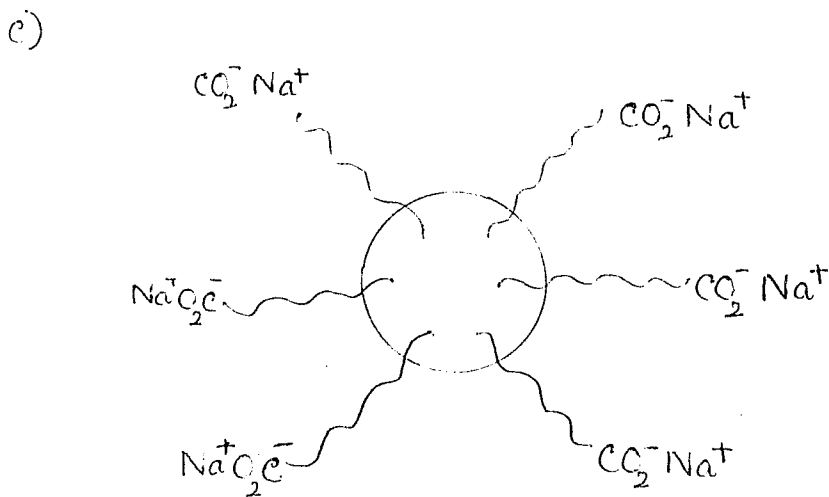


g)





b) Micelles are clusters of 5-150 soap molecules with their hydrocarbon chains grouped together and with their ionic ends facing water.



d) Hydrocarbon chain of soap molecule dissolves in non polar substances such as droplets of oil. The anionic end of soap molecule, which is attracted to water is repelled by the anionic ends of soap molecules producing from other drops of oil. Because of this repulsion oil drops remain suspended in water.