

(b) Draw Haworth and conformational structures for each of the following disaccharides.

i) 6-O- β -D-glucopyranosyl- β -D-glucopyranose

ii) Methyl 2,3,4,6-O-tetramethyl- α -D-glucopyranoside

(20 Mar)

(c) Define the term 'glycosidic' linkage in a sugar and explain briefly with a suitable example.

(20 Mar)

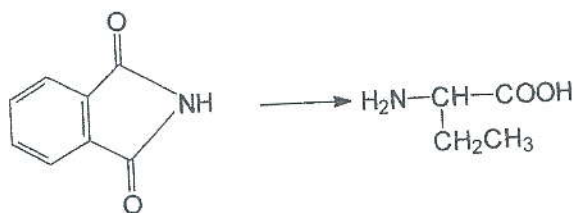
(d) Write a suitable mechanism for osmium formation from D-(+)-Glucose.

(24 Mar)

2. (a) i) Aqueous solution of amino acids is buffered solution, why?

(20 Mar)

ii) How the following transformation may be effected? Indicate by means of



(20 Mar)

(b) i) What is Homopolysaccharides?

(10 Mar)

ii) Give three examples of homopolysaccharides and state the composition

(20 Mar)

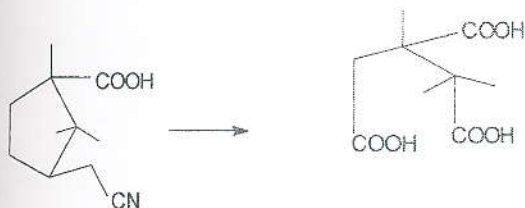
(c) By means of equations, show how the following conversions could be effected.

Give essential experimental conditions.

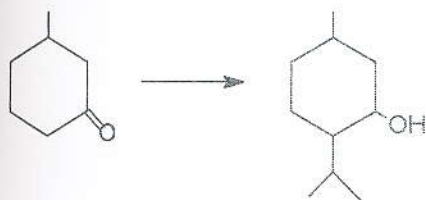
i)



ii)



iii)



(30 Marks)
