

 **Preview Assessment: Workshop 13 Part 1**

Name Workshop 13 Part 1

Instructions

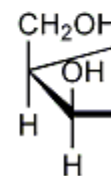
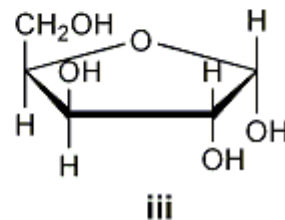
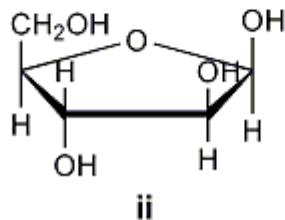
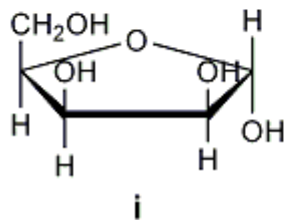
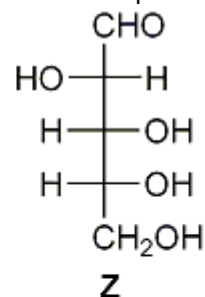
Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

▼ **Question Completion Status:**

Question 1

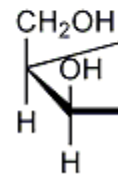
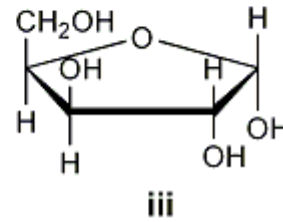
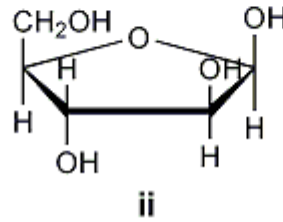
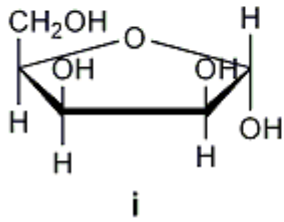
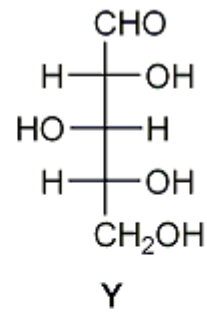
Which of the following compounds represents the hemiacetal form of the open chain monosaccharide



- i
 ii
 iii
 iv
 v

Question 2

Which of the following compounds represents the hemiacetal form of the open chain monosaccharide

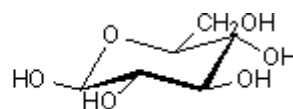
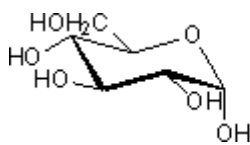


- i
- ii
- iii
- iv
- v

Question 3

1 points [Save](#)

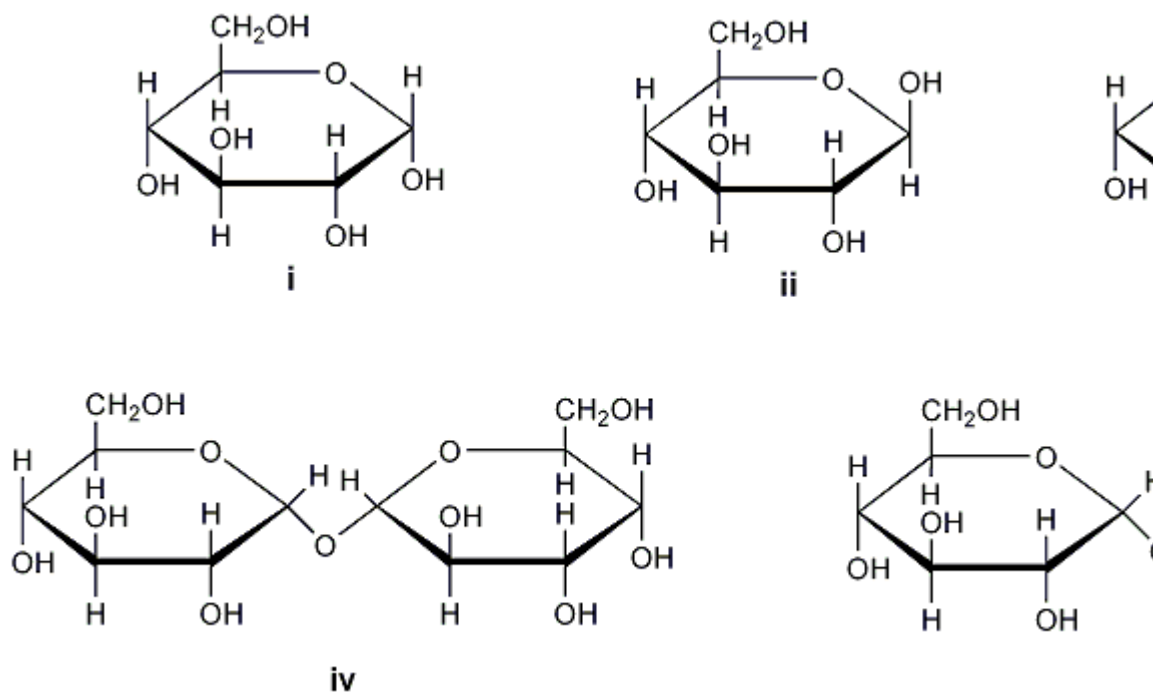
What is the relationship between the following compounds?



- Enantiomers.
- Identical compounds.
- Anomers.
- Diastereomers.
- Constitutional isomers.

Question 4

Which of the following sugars undergo mutarotation in neutral aqueous solution?



- i and iii
- iii and iv
- ii, iii and iv
- i and iv
- i, ii and v

Question 5

1 points

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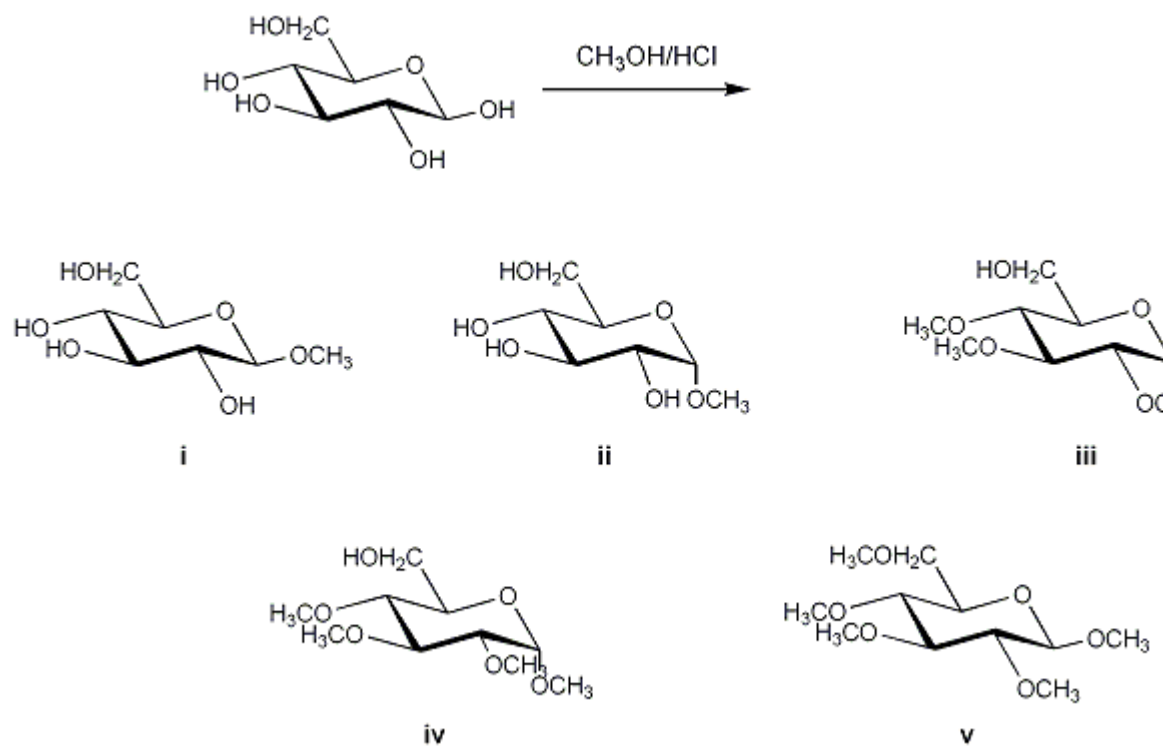
What is the ratio of products formed by the reaction of periodic acid (H_5IO_6) with D-glucose?

	$H_2C=O$	HCO_2H	CO_2
i	5	1	0
ii	3	3	0
iii	1	5	0
iv	1	4	1
v	0	4	2

- i
- ii
- iii
- iv
- v

Question 6

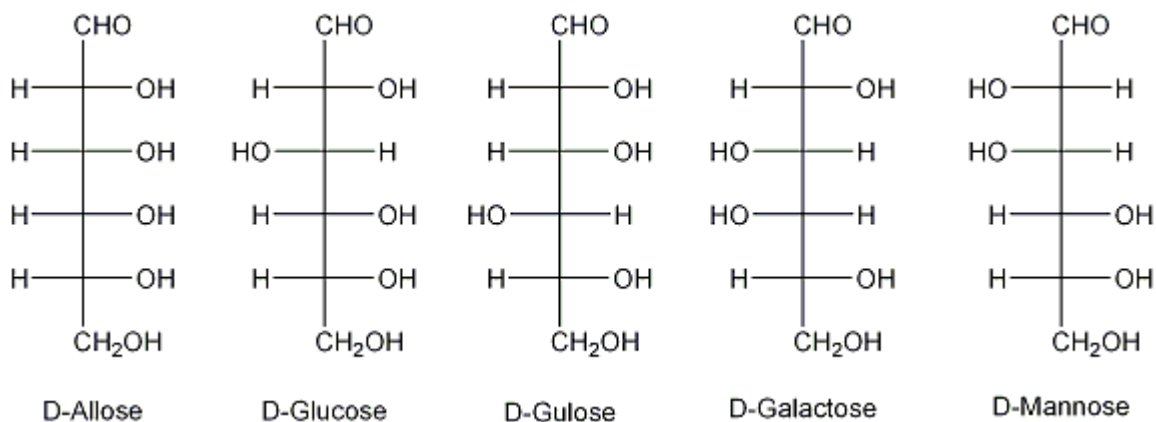
Predict the structure(s) of the product(s) formed when β -D-glucose reacts with methanol under acidic



- i
- i and ii
- iii
- iii and iv
- v

Question 7

Choose D-aldohexoses (shown below) that give the same D-aldopentose when subjected to the Ruff (removal of C1 along with the conversion of C2 to the aldehyde).

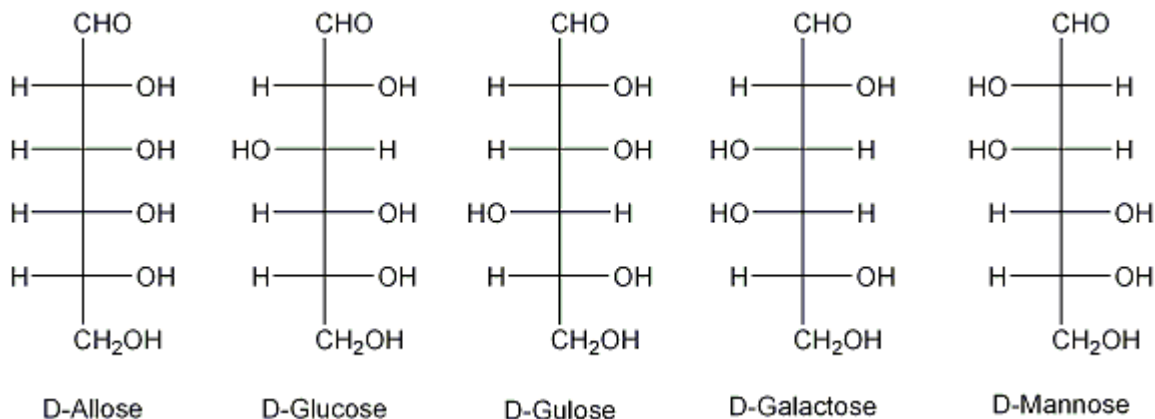


- D-glucose and D-mannose

- D-allose and D-glucose
- D-gulose and D-galactose
- D-mannose and D-talose
- D-glucose and D-gulose

Question 8

Choose two D-aldohexoses (shown below) that when treated with NaBH_4 give enantiomers of each o

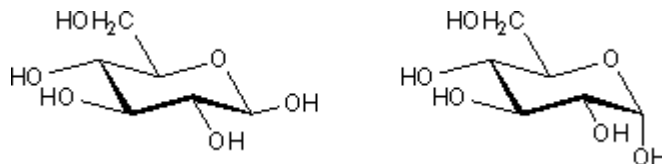


- D-glucose and D-mannose
- D-allose and D-glucose
- D-gulose and D-galactose
- D-mannose and D-talose
- D-glucose and D-gulose

Question 9

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Choose the **incorrect** statement(s) about the α -D-glucopyranose and β -D-glucopyranose shown below.

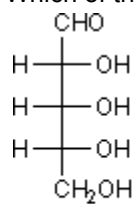
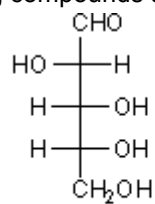
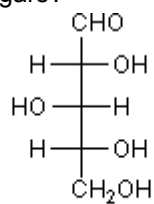
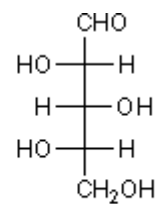
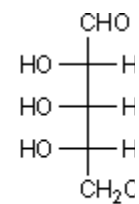


- i. They both are hemiacetals.
- ii. They both have the same melting point.
- iii. They both react with NaBH_4 to give the same compound

- All of the above.
- None of the above.
- i
- ii
- iii

**Question 10****1**

Which of the following compounds are L-sugars?

**i****ii****iii****iv****v**

- ii and iv
 i, ii and iii
 i and v
 iii, iv and v
 iv and v

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