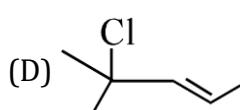
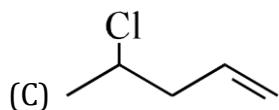
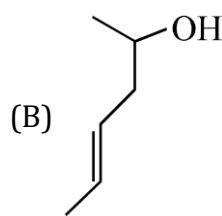
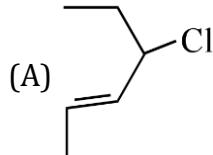
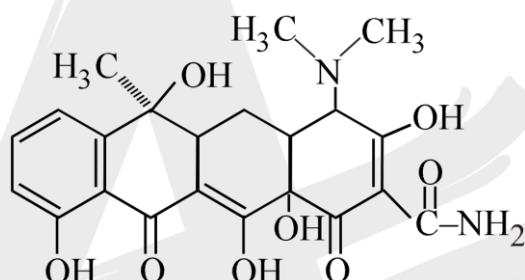


## DPP-02

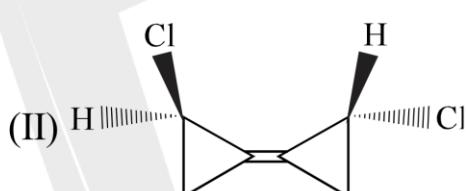
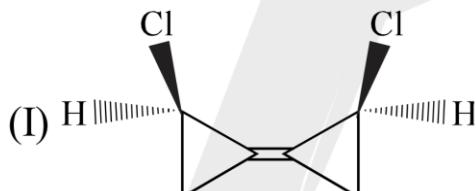
1. Which of the following compounds can show geometrical \& optical isomerism :



2. Tetracycline is called a broad spectrum antibiotic because it active against a wide variety of bacteria. How many chirality center does tetracycline have :



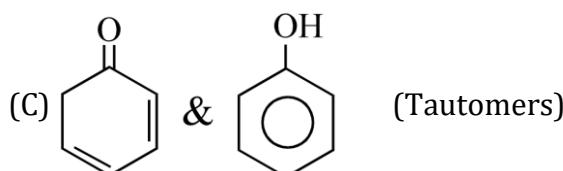
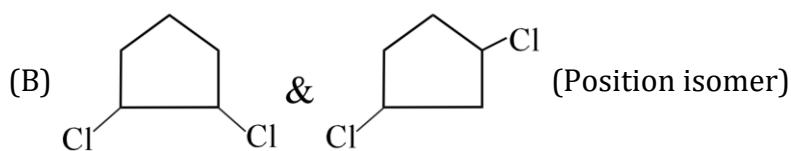
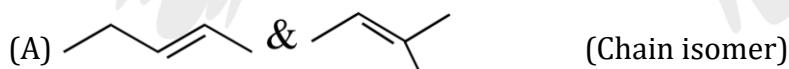
3. For the given compounds, select the correct statements :

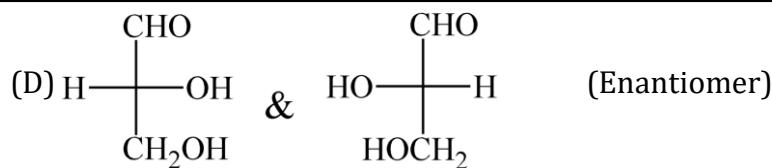


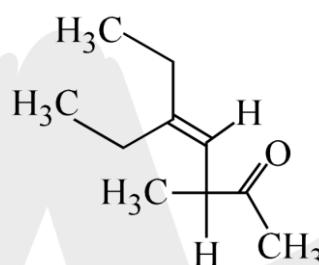
- (A) Compound I is optically inactive  
(C) Compound I and II are non polar

- (B) Compound II is enantiomeric  
(D) Compound I and II are chiral

4. Which of the following statements are correct:

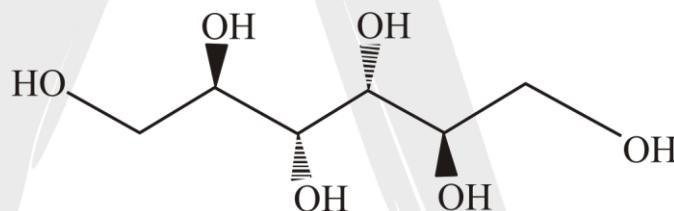




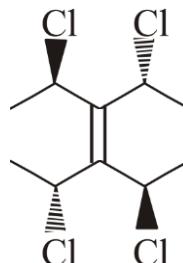


7. Correct statement about D-mannitol (in given form):



- (A)  $C_3$  axis of symmetry      (B)  $C_2$  axis of symmetry  
(C) Centre of symmetry is present      (D) 3-chiral centre are present

- 8.** True statement(s) about this compound is(are) :





- (A) It is E isomer  
 (C) It is optically active

- (B) It is Z isomer  
 (D) It has Centre of Symmetry

**9.** Match the column:

**Column I**

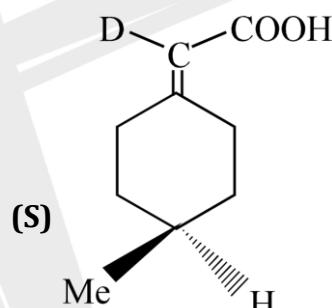
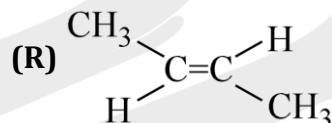
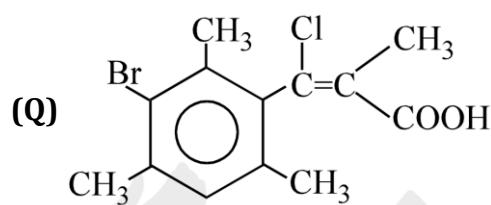
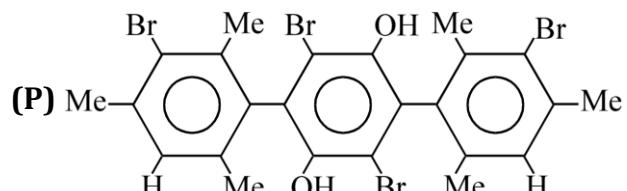
**(A)** Compound show geometrical isomerism

**(B)** Compound shows optical isomerism

**(C)** Compound having plane of symmetry

**(D)** Compound having centre of symmetry

**Column II**



**10.** Which of the following compounds has(have) a stereoisomer that is a meso compound :

- (A) 2,4-dibromohexane  
 (C) 2,4-dimethylpentane

- (B) 2,3-dibromobutane  
 (D) hexane-2,5-diol