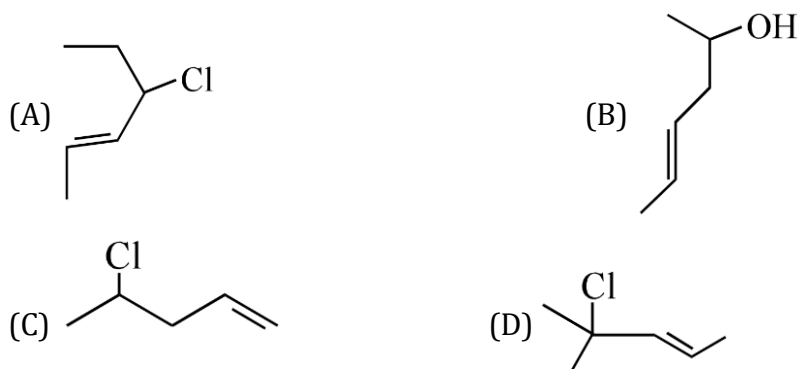
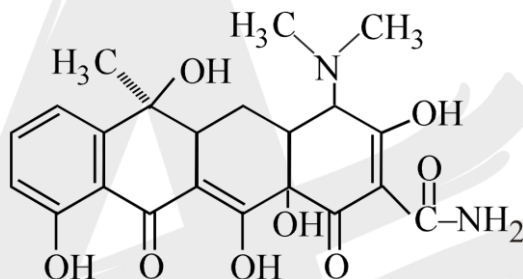


DPP-02

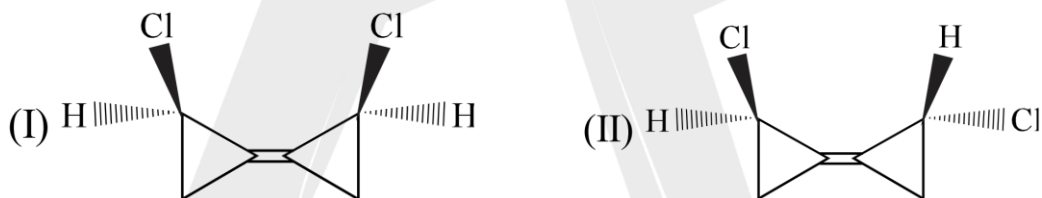
1. Which of the following compounds can show geometrical & optical isomerism :



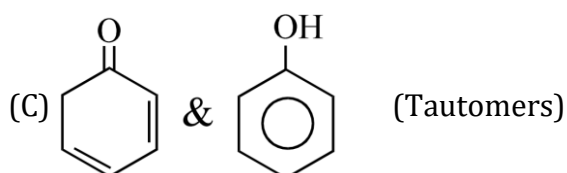
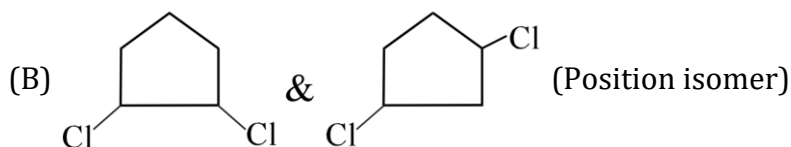
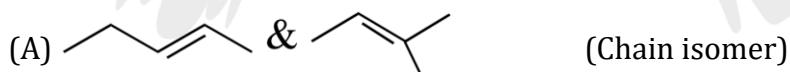
2. Tetracycline is called a broad spectrum antibiotic because it active against a wide variety of bacteria. How many chirality center does tetracycline have :

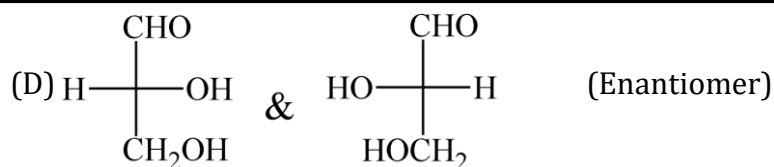


3. For the given compounds, select the correct statements :



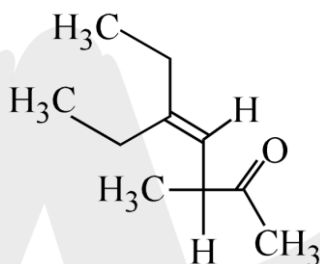
- (A) Compound I is optically inactive
(B) Compound II is enantiomeric
(C) Compound I and II are non polar
(D) Compound I and II are chiral
4. Which of the following statements are correct:





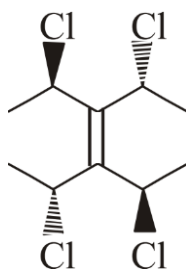
5. Among 1-heptanol, 2-heptanol, 3-heptanol, 4-heptanol, which of the following heptanols are chiral :
- (A) All are chiral (C) 2-heptanol, 3-heptanol & 4-heptanol
 (B) 2-heptanol and 3-heptanol (D) 3-heptanol and 4-heptanol

6. Following compound can show :



- (A) Optical isomerism (B) Geometrical isomerism
 (C) Optical and geometrical isomerism (D) None
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

(B) It is Z isomer

(C) It is optically active

(D) It has Centre of Symmetry

9. Match the column:

Column I

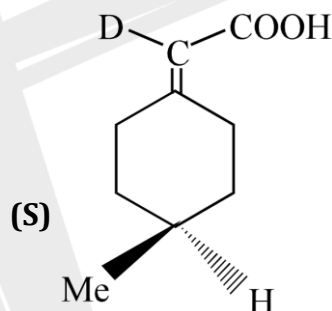
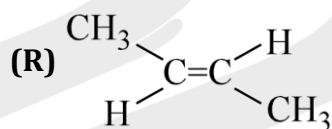
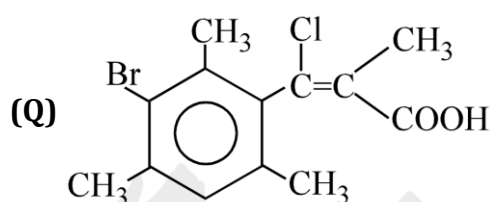
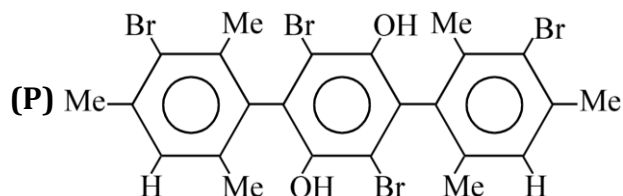
(A) Compound show geometrical isomerism

(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

(B) 2,3-dibromobutane

7Y(C) 2,4-dimethylpentane

(D) hexane-2,5-diol