SOLUTION DPP-02

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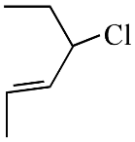
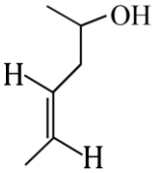
1. Optical isomers are those which differ in their optical activity

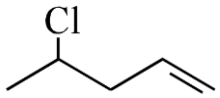
Geometrical isomerism are those having restricted rotation and different group on terminal carbon.

(A) 

- Show geometrical isomerism
- Show optical isomerism

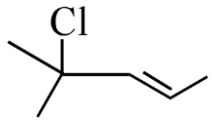
(B) 

- Show geometrical isomerism
- Show optical isomerism

(C) 

Not Show geometrical isomerism.

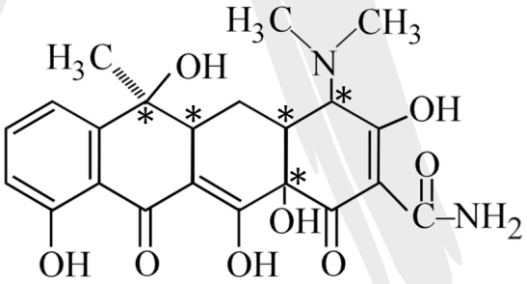
Show Optical isomerism.

(D) 

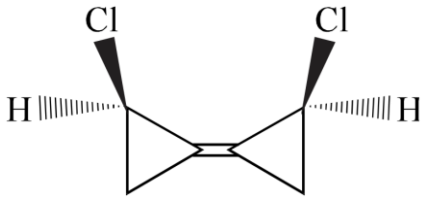
Show geometrical isomerism.

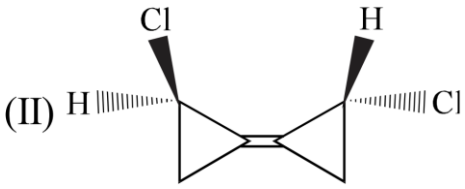
Not Show Optical isomerism.

2. Tetracycline: - Total chirality Centre = 5



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

(I) 

(II) 

(A) They are not optically inactive

(B) Not enantiomeric

(C) I is polar and II is non polar

(D) Compound is chiral

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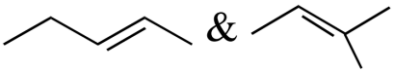
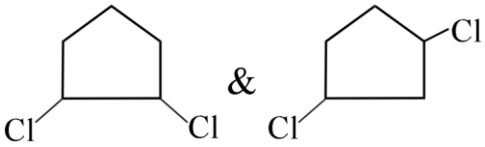
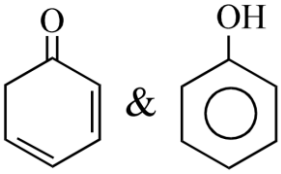
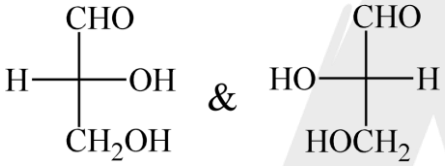
4. Which of the following statements are correct:

(A)  (Chain isomer)- They are Chain isomer

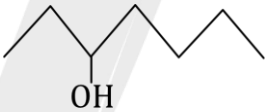
(B)  (Position isomer)- They are Position isomer

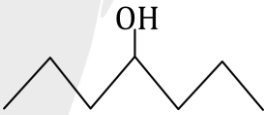
(C)  (Tautomer's)- They are Tautomer's

(D)  (Enantiomer)- They are Enantiomer

5. 1-heptanol  -Not Chiral

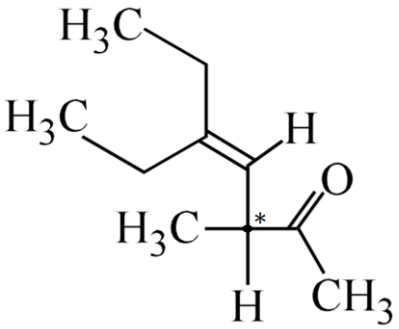
2-heptanol  -It is Chiral

3-heptanol  -It is Chiral

4-heptanol  -Not Chiral

Hence option B is correct.

6. It shows optical isomerism



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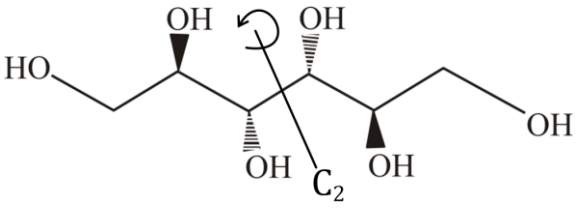
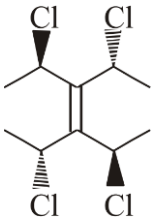
7. C_2 axis of symmetry



8.



-No Centre of Symmetry

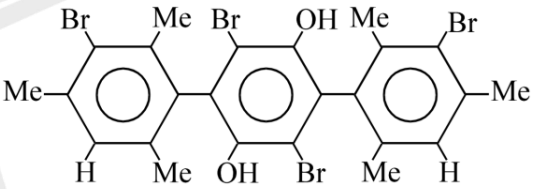
-No Plane of Symmetry

-Optically active

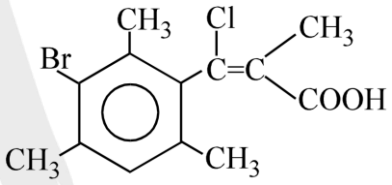
-Cannot show E/Z as Group attach to Double Bond are same

9. **(A)** Compound show geometrical isomerism

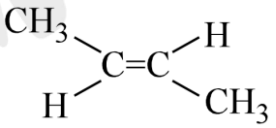
(P)



(Q)



(R)



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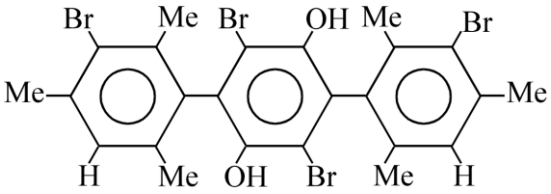
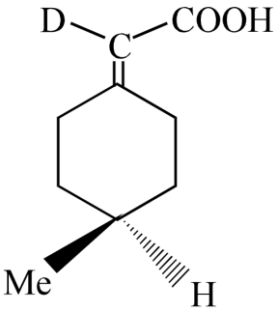
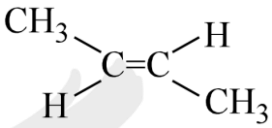
(B) Compound shows optical isomerism **(P)**



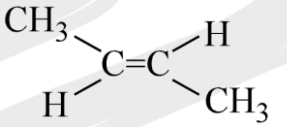
(S)



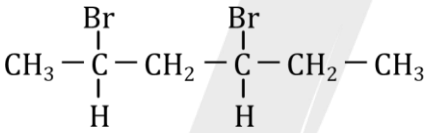
(C) Compound having plane of symmetry **(R)**



(D) Compound having Centre of symmetry **(R)**

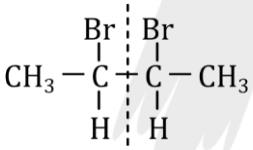


10.



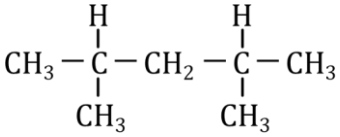
-No Plane of symmetry

Not an Meso compound



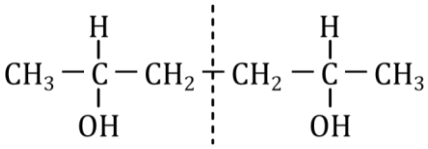
-Plane of symmetry present

so a Meso compound.



-No Plane of symmetry

Not an Meso compound



-Plane of symmetry

so these are Meso compound.