

PRN No-

SEAT No-

Rajarshi Chhatrapati Shahu College, Kolhapur.

B.Sc-I, Winter Exam 2020-21

Subject code-71605 (Organic Chemistry)

50 Marks

Date-22/04/2021

Time- 10.30 – 11.30 Am

Student Signature

Jr. Sup. Signature

**Select the most correct alternative and write the correct answer in box.
All questions are compulsory, each question carry two marks.**

1. Fish hook Arrow or half headed Arrow is used to show.....
A) chemical reaction B) homolytic fission C) resonance D) heterolytic fission
2. Homolytic Bond fission is favoured by....
A) UV light B) heat C) polar solvent D) both a or b
3. The nucleophile amongst the following species is.....
A) H⁺ B) H₃O C) ZnCl₂ D) R-NH₂
4. Electrophile term implies.....species
A) electron loving B) nucleus hating C) nucleus loving D) single electron
5. Protonation of.....forms carbocation
A) C=C B) C=O C) R-OH D) any of these
6. Carbanions are electron.....
A) poor B) rich C) neutral D) electrophile
7. Electromeric effect is.....effect.
A) permanent B) temporary C) time variable D) both a and c
8. An optically activemolecule lacks.....of symmetry.
A) Centre B) plane C) alternating Axes D) all of these
9. The compound CH₃CH(Cl)COOH shows.....isomerism

- A) Geometrical B) conformational C) optical D) Cis-trans
10. The compound having optical activity amongst the following is.
- A) 1-chlorobutane B) 2- chloropropane C) 2- chlorobutane D) 1- chloropentane
11. Which of the following is not chiral.
- A) 2- chlorobutane B) lactic acid C) 3-chloropentane D) 2- amino propionic acid
12. Non superimposable stereoisomers related as object and Mirror image are called.
- A) diastereomers B) Enantiomers C) conformers D) Geometrical isomers.
13. 2-butene exhibit.isomerism
- A) optical B) geometric C) conformational D) none of these
14. Syn and anti prefixes used to describe the geometrical isomers of aldoximes indicate the relationship between OH group with.....
- A) H atom B) alkyl group C) N atom D) C atom
15. is a non benzenoid compounds
- A) Naphthalene B) benzene C) pyridine D) phenol.
16. Correct structure of benzene was proposed by.....
- A) Deewar B) Faraday C) Kekule D) Claus
17. All aromatic compounds are.....
- A) planar B) cyclic, conjugated C) having $(4n + 2)$ Pi electrons D) all of these
18. The C-C-C bond angle in Benzene is.....
- A) 120 degree B) 180 degree C) 90 degree D) 270 degree.
19. Pick up the false statement about benzene
- A) carries aromatic sextet B) C-C-C bond angle is 109.28° C) all carbon carbon Bond are equivalent D) a typical example of aromatic compounds
20. In Benzenetype of overlapping is not observed.
- A) sp^2-sp^2 B) p-p C) sp^2-s D) $sp-sp$

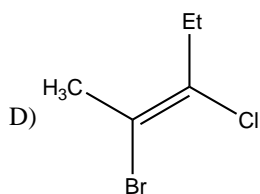
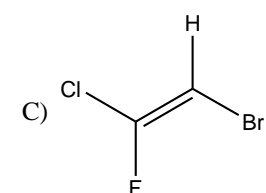
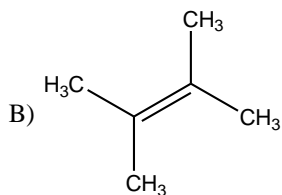
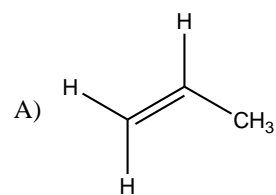
21. The Sigma Complex formed in substitution reaction of benzene is.

- A) negatively charged Ion B) positively charged cation C) a free radical species
D) final product formed

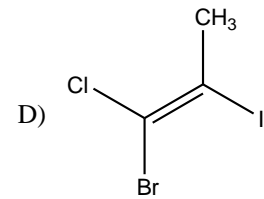
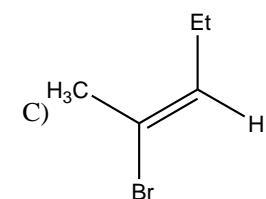
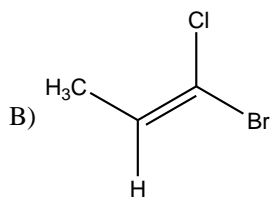
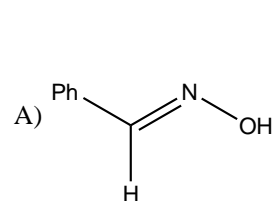
22. The movement of electrons in heterolytic bond fission is shown by.....

- A) \longrightarrow B) \longrightarrow C) \longleftrightarrow D) 

23. Which of the following has Z-configuration



24. Which of the following does not have E-configuration



25. Which of the following is not aromatic in character?

