

B.Sc. Part-III Honours
Final Internal Assessment
Sub: CHEMISTRY

Organic, Paper-IX, F.M.-20, Time: 30 Minutes

Date: 17.07.2020, Time: 10 A.M. to 10-30 A.M

Answer All MCQ Questions:

(10 x 2)

- (a) Which of the following compound act as best dienophile in Diels Alder reaction?
(I) 1,3-butadiene **(II) Benzyne** **(II) Isoprene** **(IV) Cyclopentadiene**
- (b) Which of the following disachharide contain C1-C2 glycosidic linkage?
(I) Lactose **(II) Maltose** **(II) Sucrose** **(IV) None of them**
- (c) Sanger's reagent is used in polypeptide and protein Chemistry for
(I) N-Terminal amino acid determination **(II) C-Terminal amino acid determination** **(II) Strecker reaction** **(IV) Koop synthesis**
- (d) Aldol condensation reaction occurs smoothly with
(I) 2-Methyl piperidine **(II) 3,5-Lutidine** **(II) γ -Picoline** **(IV) α -Picoline**
- (e) Which of the following is an example of anthraquinone based Dye?
(I) Indigotin **(II) Congo red** **(II) Alizarin** **(IV) Malachite green**
- (f) Cyclohexyl carboxylic acid can be easily prepared from
(I) EAA & 1,4-dibromobutane **(II) DEM & 1,4-dibromopentane** **(II) EAA & 1,4-dibromohexane** **(IV) DEM & 1,4-dibromohexane**
- (g) How many ^1H NMR signals are found in *cis* and *trans* 1,2-dimethyl cyclopropane?
(I) 2,3 **(II) 3,4** **(II) 1,2** **(IV) 8,10**
- (h) Conard Limpach synthesis produce
(I) 3-Methyl quinoline derivative **(II) 4-Methyl quinoline derivative** **(II) 5-Methyl quinoline derivative** **(IV) 6-Methyl quinoline derivative**
- (i) The preferred conformation of *trans* 2,5-dichloro 1,4-dioxane is
(I) Twist boat **(II) Diequatorial chair** **(II) Boat** **(IV) Diaxial chair**
- (j) Which of the following terms are usually used for Retrosynthesis
(I) FGA **(II) FGI** **(II) TM** **(IV) All of these**