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BINA CHOWDHURY CENTRAL LIBRARY
(GIMT & GIPS)
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Roll No. of candidate

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2019

B.Pharm. 2nd Semester End-Term Examination
PHARMACEUTICAL ORGANIC CHEMISTRY — I
(New Regulation)

(w.e.f. 2017-18)

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer ALL questions.

1. Multiple Choice Questions : (20 × 1 = 20)
- (i) Which among these is not a structural isomer of the compound C_4H_8
- (a) But-1-ene (b) But-2-ene
(c) But-3-ene (d) 2-methylpropene
- (ii) Select the incorrect statement regarding alkenes
- (a) In alkenes, the carbons are connected by pi bonds
(b) Alkenes have almost same physical properties as that of the alkanes
(c) Alkenes are less reactive than alkanes
(d) Alkenes undergo polymerization reaction

[Turn over

- (iii) Which among the following alkenes is used in the manufacturing of plastics
- (a) Butadiene
 - (b) 1,2-butadiene
 - (c) 1,3-butadiene
 - (d) 2-butadiene
- (iv) Conjugated diene reacts with which among the following to form a cyclohexene
- (a) Phenol
 - (b) Dienophile
 - (c) Hexane
 - (d) Tribromo phenol
- (v) Which pairing is correct?
- (a) Propene; sp^3 and sp^2 hybridized C
 - (b) Ethyne; sp^2 hybridized C
 - (c) Ethene; sp^3 hybridized C
 - (d) Allene; sp^3 hybridized C
- (vi) In combustion reactions alkanes react with
- (a) oxygen
 - (b) nitrogen
 - (c) water
 - (d) all of them
- (vii) Which of the following alkyl halide can give best SN_2 reaction?
- (a) Primary alkyl halide
 - (b) Tertiary alkyl halide
 - (c) Secondary alkyl halide
 - (d) All can give SN_2 reaction at same rate

(viii) Which of the following reactant gives the best method of preparation of alkyl halides when reacts with alcohol?

- (a) Zn/HCl
- (b) PCl_5
- (c) SOCl_2 / Pyridine
- (d) PCl_3

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(ix) Which one is not a nucleophile?

- (a) NH_3
- (b) SCN^-
- (c) CH_3^+
- (d) $\text{C}_2\text{H}_5\text{O}^-$

(x) How many structural isomers are possible for $\text{C}_4\text{H}_9\text{Br}$?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

(xi) Which statement is false?

- (a) Many alkanes are soluble in water
- (b) All alkanes have a lower density than water
- (c) Alkanes are saturated hydrocarbons
- (d) All alkanes burn

(xii) The chlorination of methane to give CCl_4 is an example of

- (a) An electrophilic addition
- (b) A nucleophilic addition
- (c) A nucleophilic substitution
- (d) A free radical substitution

- (xiii) Which of the following will give a negative test when treated with bromine in carbon tetrachloride?
- (a) Butane (b) 2-butene
(c) 1,3-butadiene (d) 1-butene
- (xiv) 1-Bromobutane reacts with alcoholic KOH mainly give
- (a) 1-butene (b) 2-butene
(c) 1-butanol (d) 2-butanol
- (xv) Which of the following poisonous gas is formed when chloroform is exposed to light and air?
- (a) Mustard gas
(b) Carbon monoxide
(c) Phosgene
(d) Chlorine
- (xvi) Lucas test is used to determine the type of
- (a) Acids (b) Alcohols
(c) Amines (d) Carbohydrates
- (xvii) The acid catalysed dehydration mechanism for alcohol is best described as:
- (a) E1 (b) E2
(c) SN1 (d) SN2
- (xviii) Which of the following compounds will give positive test with Fehling's solution?
- (a) Formaldehyde (b) Acetone
(c) Ethyl acetate (d) Acetic acid