

STARS ACADEMY LAHORE

Head office: 30 Kashmir Block Allama Iqbal Town Lahore 042-37800293, 0333-1409100, www.entrytest.edu.pk

Roll No. of Candidate



Name of Candidate

STARS

STARS ENTRY TEST SYSTEM

Assignment Code: C9

Session MDCAT

Time Allowed: 60 mins

- When a bee bites, it mainly injects in the body**
A) Formic acid
B) Carbonic acid
C) Acetic acid
D) Hydrochloric acid
- Which of the following is not an amino acid:**
A) Glutamic acid
B) Aspartic acids
C) Lactic acid
D) Glycine
- Pure acetic acid freezes to ice like solid at:**
A) 8°C
B) 25°C
C) 39°C
D) 17°C
- If formula of succinic acid is represented as $\text{HOOC}(\text{CH}_2)_n\text{COOH}$, then 'n' is equal to:**
A) One
B) Three
C) Two
D) Four
- Which of the following reagents will convert acetic into acetyl chloride?**
A) $\text{C}_2\text{H}_5\text{Cl}$
B) $\text{SOCl}_2/\text{pyridine}$
C) HI/P
D) P_2O_5
- Acetic acid reacts with methyl alcohol in the presence of an acid catalyst to give:**
A) Methyl methanoate
B) Methyl ethanoate
C) Ethyl methanoate
D) Ethyl ethanoate
- Which of the following acid is unsaturated carboxylic acid**
A) Malonic acid
B) Succinic acid
C) Oxalic acid
D) Maleic acid
- Ninhydrin test is applied to identify:**
A) Carbohydrates
B) Fats and oil
C) Amino acids
D) Alkenes
- Which of the reaction is not carried out by carboxylic acid:**
A) Salt formation
B) Reaction in which -COOH is involved
C) Replacement of OH-group
D) Reaction with NaOH to give redox reaction
- Consider the following reaction**
$$\text{CH}_3\text{COOH} + \text{CH}_3\text{CH}_2 - \text{OH} \rightarrow \text{CH}_3\text{CHOOC}_2\text{H}_5 + \text{H}_2\text{O}$$

A) H comes from acid and OH form alcohol
B) H and OH both come from acid
C) H comes from alcohol and OH from acid
D) H and OH both come form alcohol
- The solution of which acid is used for seasoning of food:**
A) Formic acid
B) Enzonic acid
C) Acetic acid
D) Bulanoic acid
- Alanine is:**
A) $\text{NH}_2\text{CH}_2\text{COOH}$
B) $\text{HOOCCH}(\text{NH}_2)\text{CH}_2\text{CH}_2\text{COOH}$
C) $\text{CH}_3\text{CH}(\text{NH}_2)\text{COOH}$
D) $\text{HOOCCH}_2\text{CH}(\text{NH}_2)\text{COOH}$
- Ninhydrin reacts with amino acids to form product which has colour:**
A) Blue
B) Bluish violet
C) Violet
D) Red
- Malonic acid is the example of**
A) Monocarboxylic acid
B) Tricarboxylic acid
C) Dicarboxylic acid
D) Not a carboxylic acid
- Which one is not condensation polymer**
A) Protein
B) Polyester
C) Nylon 66
D) Polystyrene

16. **Precipitation or coagulation of proteins may be caused by:**
 A) Heating
 B) Heavy metals
 C) Changes in pressure
 D) Changes in dilution
17. **A polymer in which repetition of monomers takes place in a straight chain is called:**
 A) Linear polymer
 B) Cross linked polymer
 C) Branched polymer
 D) Homo polymer
18. **Carboxylic acid undergoes ionization due to :**
 A) Hydrogen bonding
 B) Absence of α hydrogen
 C) High reactivity of α hydrogen
 D) Resonance stabilization of carboxylate ions
19. **Which reagent will bring about the conversion of carboxylic acids into esters?**
 A) Dry. $HCl + C_2H_5OH$
 B) C_2H_5OH
 C) $LiAlH_4$
 D) $Al(OC_2H_5)_3$
20. **A fruity smell is produced by the reaction of C_2H_5OH with:**
 A) PCl_5
 B) CH_3COCH_3
 C) CH_3COOH
 D) CH_3CHO
21. **Which of the following formula is more reactive for hydrolysis?**
 A) $-COOR$
 B) $CONH_2$
 C) $\begin{matrix} O \\ || \\ -C - H \end{matrix}$
 D) $-COCl$
22. **Here the strongest acid is:**
 A) $CH_3 - COOH$
 B) $CH_3CH_2 - COOH$
 C) $Cl - CH_2 - COOH$
 D) $Br - CH_2 - COOH$
23. **On strong heating ammonium acetate gives:**
 A) Urea
 B) Foramide
 C) Acetamide
 D) Methyl cyanide
24. **Polymers formation from monomers starts by**
 A) Condensation reaction between monomers
 B) Coordination reaction between monomers
 C) Conversion of monomers to monomers ions by protons
 D) Hydrolysis of monomers
25. **Which of the following is a chain growth polymer?**
 A) Proteins
 B) Starch
 C) nylon-6
 D) Polythene
26. **PVC is formed by polymerization of:**
 A) 1-Chloroethene
 B) Ethane
 C) Propene
 D) 1-chloropropane
27. **Nylon threads are made of**
 A) Polyester polymer
 B) Poly amide polymer
 C) Polyvinyl polymer
 D) Polyethylene polymer
28. **Which is used for the formation of nylon-6, 6?**
 A) Phthalic acid
 B) Sulphurous acid
 C) Sulphur hexafluoride
 D) Adipic acid
29. **The monomer unit of polyvinyl chloride has the formula**
 A) $CH_3 - CH_2Cl$
 B) $CH_2 = CH_2$
 C) $CHCl = HCl$
 D) $CH_2 = CHCl$
30. **Which of the following is not correct regarding terylene?**
 A) Synthetic fibre
 B) Thermosetting plastic
 C) Step-growth polymer
 D) Condensation polymer