CHEMISTRY

JEE MAIN AND ADVANCED

MOCK TEST 40

Example

1. Which of the following carbohydrate is a monosaccharide?

A. Sucrose

B. Maltose

C. Ribose

D. Glycogen

Answer: C

2. Glucose on prolonged heating with HI, forms

A. n-Pentane

B. n-Hexane

C. Iodopentane

D. Iodohexane

Answer: B

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3. The statement which is incorrect withrespect to glucose is

A. Reduces Felhing's solution and Tollen's reagent

B. Reacts with hydroxylamine to form an oxime

C. Adds a molecule of hydrogen cyanide to give cyanohydrin

D. Gives yellow ppt with I2 in alkali

Answer: D

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4. Acetylation of glucose with acetic anhydride gives

A. Glucose hexaacetate

B. Glucose pentaacetate

C. Glucose butaacetate

D. Glucose diacetate

Answer: B

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5. Oxidation of glucose with bromine water and nitnic acid yields respectively

A. Gluconic acid and Saccharic acid

B. Saccharic acid and Gluconic acid

C. Gluconic acid and Gluconic acid

D. Saccharic acid and Saccharic acid

Answer: A

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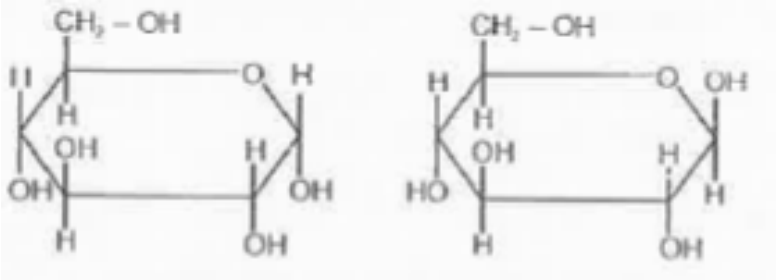
6. Two cyclic hemiacetal forms of glucose given below are called as



A. Enantiomers

B. Optical antipodes

C. Anomers

D. Tautomers

Answer: C

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7. Correct statement with respect to sucrose is

A. It is dextrotatory and gives dextrorotatory glucose and laevorotatory fructose on hydrolysis

B. It is laevorotatory amd gives laevorotatory glucose and dextrorotatory fructose on hydrolysis

C. It is dextrorotatory amd gives levorotatory glucose amd dextrorotatory fructose on hydrolysis

D. It is laevorotatory and gives dextrorotatory glucose and laevorotatory fructose on hydrolysis

Answer: A

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8. IUPAC name of serine is

A. 2-Aminoethanoic acid

B. 2-Aminopripanoic acid

C. 2-Amino-3-hydroxypropanoic acid

D. 2-Amino-3-mercaptopropanoic

Answer: C

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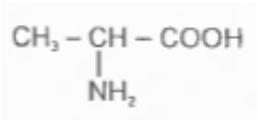
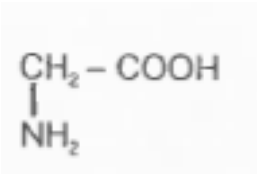
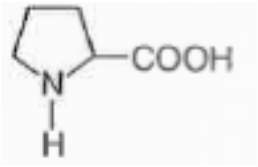
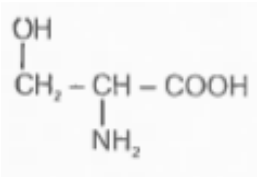
9. Identify the optically inactive amino acid

A. 

B. 

C. 

D. 

Answer: B

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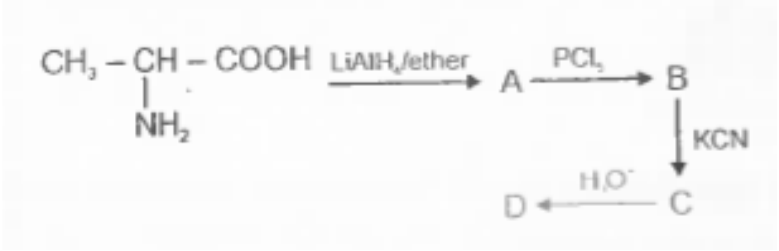
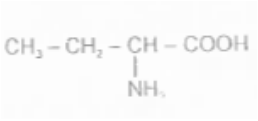
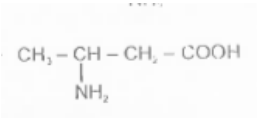
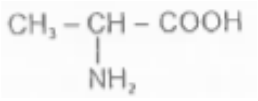
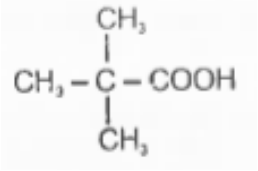
10. The correct structure of product, D formed in the following sequence of reactions is



A. 

B. 

C. 

D. 

Answer: B

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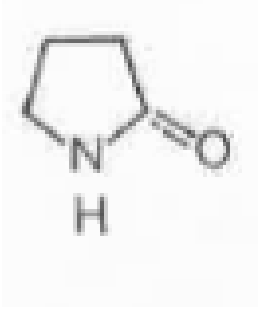
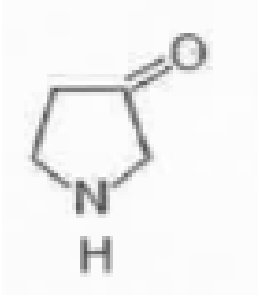
11. Product obtained by heating 4-Amino butanoic acid

A. $CH_2 = CH - CH_2 - COOH$

B. 

C. 

D. 

Answer: C

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12. Bakelite is an example of

A. Linear polymer

B. Branched chain polymer

C. Cross linked polymer

D. Thermoplastic polymer

Answer: C

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13. Which among the following is a polyester?

A. Teflon

B. PVC

C. Nylon 6, 6

D. Terylene

Answer: D

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14. Ziegler-Natta catalyst is

A. Triethylaluminium and titanium trichloride

B. Triethylaluminium and titanium tetrachloride

C. Trymethylaluminium amd titanium tetrachloride

D. Trymethylaluminium and titanium trichloride

Answer: B

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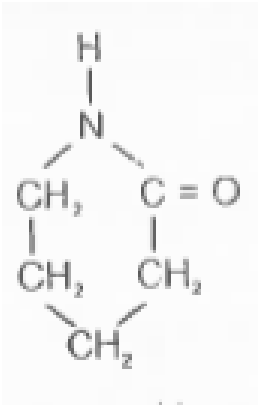
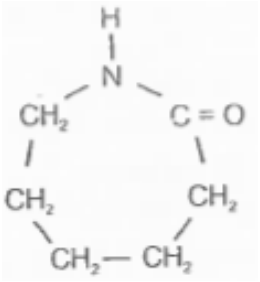
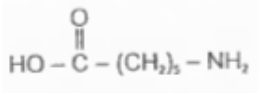
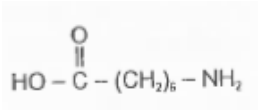
15. Monomer unit of Nylon 6 is

A. 

B. 

C. 

D. 

Answer: B

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16. Poly Beta-hydroxybutyrate-co-Beta-hydroxy valerate (PHBV) is obtained by the copolymerisation of

A. 2-hydroxybutanoic acid and 3-hydroxypentanoic acid

B. 3-hydroxybutanoic acid and 2-hydroxypentanoic acid

C. 3-hydrocybutanoic acid and 3-hudroxypentanoic acid

D. 3-aminobutanoic acid and 3-hudroxypentanooc acid

Answer: C

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17. Incorrect statement among the following is

A. PHBV undergoes bacterial degradation in the environment

B. Nylon 2-nylon 6 is a copolymer of glycine and amino caproic acid

C. Nylon 2-nylon 6 is a non-biodigradable polymer

D. PHBV is used in orthopaedic devices

Answer: C

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Name of polymers	Uses
(a) PVC	(i) Manufacture of paints and lacquers
(b) Glyptal	(ii) Making of unbreakable cups and laminated sheets
(c) Bakelite	(iii) Making of combs, electrical switches
(d) Urea-formaldehyde resin	(iv) Manufacture of rain coats, water pipes

18.

The correct match is

A. a - ii, b - i, c - iii, d - iv

B. a - iv, b - i, c - iii, d - ii

C. a - iv, b - iii, c - i, d - ii

D. a - iv, b - ii, c - iii, d - i

Answer: B

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19. Drugs that blinfld to the receptor site and inhibit its natural function are called

A. Agonists

B. Antagonists

C. Co-factors

D. Allosterics

Answer: B

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20. Cimetidine (Tegamet) and Ranitidine (Zantac) drugs are

A. Analgesics

B. Tramquilizers

C. Antacids

D. Antidepressants

Answer: C

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21. Among the following, indentify the pair of antihistamine drugs

A. Brompheniramine and Terfenadine

B. Iproniazid and Phenelzine

C. Chlordiazepoxide and Equanil

D. Veronal and Valium

Answer: A

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22. The class of chemical compounds used for the treatment of stress are called

A. Analgesics

B. Tramquilizers

C. Antihistamines

D. Antibiotics

Answer: B

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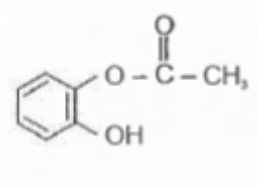
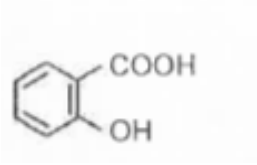
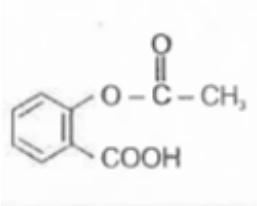
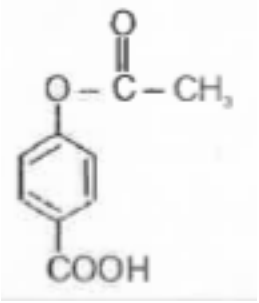
23. Correct structure of Aspirin is

A. 

B. 

C. 

D. 

Answer: C

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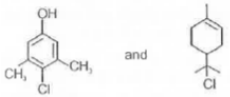
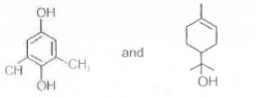
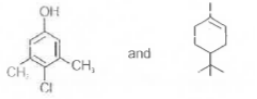
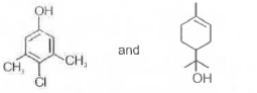
24. Dettol, commonly used antiseptic is a mixture of

A. 

B. 

C. 

D. 

Answer: D

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25. Consider the following statements -

(i) Antiseptics are chemical substances which prevent the growth of microorganisms,

(ii) Boric acid in dilute aqueous solution bis

weak antiseptic for eyes,

(iii) 0.2 percent solution of phenol is disinfectant

(iv) Iodine is a powerful antiseptic, The correct statement (s)

A. (i) and (ii)

B. (i), (ii) and (iv)

C. (i), (ii) and (iii)

D. (iii) and (iv)

Answer: B

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26. Penicillin is an example of

A. Analgesic

B. Antiseptic

C. Antibiotic

D. Anaesthetic

Answer: C

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27. Drugs which produce insensibility to the vital functions bof nervous systen are known as

A. Antibiotics

B. Analgesics

C. Anaesthetics

D. Antipyretics

Answer: C

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28. The incorrect statement with respect to saccharin is

A. Artificial sweetening agent

B. About 550 times as sweet as cane sugar

C. Excreted from the body in urine

D. Chemical name is para-sulphobenzimide

Answer: D

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29. Identify the false characteristic regarding detergents

A. Anionic detergents bare sodium salts of sulphonated long chain hydrocarbons

B. In anionic detergents, the cationic part of detergent is involved in the cleansing action

C. Cationic detergents are quaternary ammonium salts of amines with bromides as onins

D. Liquid dishwashing detergents are non-ionic detergents

Answer: B

30. Norethindrone is an example of synthetic progesterone derivative which is most widely used as

A. Antiseptics

B. Antifertility drugs

C. Antibiotics

D. Analgesics

Answer: B

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