

PAPER CODE : 5004

M.Sc. Semester – 3 (Old Course)

JULY-SEP-2021

CHNN-602-(O) : Organic Chemistry

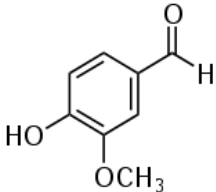
કુલ સમય :— ૬૦ મીનીટ

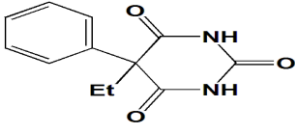
કુલ પ્રશ્નો : ૫૦

વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૩૫

નોંધ : વિદ્યાર્થીએ માત્ર ૩૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૩૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

- Which among the following drug used to analgesics along with antipyretics is:
(A) Piperizine citrate (B) Phenobarbital (C) Aspirin (D) Cimetidine
- Eucalyptus oil is the class of:
(A) Edible oil (B) Mineral oil (C) Drying oil (D) Tropical oil
- Craft process is generally used to manufacture:
(A) Fruit concentrate (B) Pulp (C) Rayon (D) Edible oil
- Hydroxylation reaction is:
(A) Nucleophilic substitution (B) Electrophilic substitution
(C) Free radical substitution (D) Free radical addition
- Auxin is:
(A) Fungicides (B) Plant hormones (C) Rodenticides (D) Plant nutrients
- The prime parameter consideration for the selection of chemical process is:
(A) Safety (B) Environmental (C) Economics (D) All the given above
- The process typically used to improve the flavor, stability and keeping quality of an oil is:
(A) Hydrogenation (B) Double filtration (C) Refining (D) Rancidification
- DDT is well known insecticides belong to:
(A) Contact insecticides (B) Repellants (C) Internal insecticides (D) Fumigents
- The “ Tropical” oil is:
(A) Soyabean oil (B) Sunflower oil (C) Cotton seed oil (D) Coconut oil
- Dairy milk is manufactured by Cadbury consists flavor is:
(A) Vanilla (B) Chocolate (C) Caramel (D) Rash burry
- Which among the following does not removed during the fruit concentrates ?
(A) Water (B) Fiber (C) Vitamin C (D) Sugar
- In the chlorination of benzene with $\text{Cl}_2/\text{FeCl}_3$, the reactive intermediate involves:
(A) Chlorine radical (B) Chloride ion (C) Chlorine atom (D) Chloronium ion
- Which among the following is added to soap for antiseptic property ?
(A) Dettol (B) Bithional (C) Chloroxylonol (D) Rosin
- Choose incorrect for cetyltrimethyl ammonium bromide is:
(A) Cationic detergent (B) It possess germicidal property
(C) Used to making hair conditioners (D) Liquid dishwashing detergent
- The food additives are added to the food mainly for:
(A) Enhancing their appeal (B) Adding nutritive value (C) Their preservation (D) All the given above
- The Manufacturing of drug involves condensation and cyclization is:
(A) Phenobarbital (B) Cimetidine (C) Piperizine citrate (D) Aspirine
- The best method for extraction of cotton seed oil is:
(A) Solvent extraction method (B) Expression method
(C) Steam distillation method (D) Fractional distillation method

18. The chemical reaction as to be economically profitable is called:
 (A) Green process (B) Environmental process (C) Unit process (D) Bio-chemical process
19. Identify the following compound:
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- (A) Aspirin (B) Vanillin (C) Methyl salicylate (D) Salol
20. How lignin removed from wood pulp during the manufacturing of paper ?
 (A) Treatment with CO_2 (B) Treatment with H_2O (C) Treatment with SO_2 (D) Treatment with Cl_2
21. The organic explosives are manufactured mostly based on:
 (A) Halogenation (B) Amination (C) Nitration (D) Hydroxylation
22. The pesticides that kills rats, mice, squirrels, beavers etc. are called:
 (A) Weedicides (B) Rodenticides (C) Miticides (D) Fungicides
23. The substance commonly added to Chinese foods, Canned vegetables, Soups and processed meats for enhanced flavor is:
 (A) Sodium benzoate (B) Monosodium glutamate (C) Salts of sorbic acid (D) Butylated hydroxyl toluene
24. Diazepam: The class of drug is:
 (A) Anti histamine (B) Anti depressant (C) Anti allergic (D) Antibiotic
25. Sodium p-dodecyl benzene sulphonate(p-DDBS) is:
 (A) Bio-soft detergent (B) Eco-friendly detergent
 (C) Anionic detergent (D) Bio-degradable detergent
26. By-product of saponification is:
 (A) Glycerine (B) Fatty acid (C) Ethylene glycol (D) Fatty alcohol
27. Choose incorrect for industrial application of sulphonation is:
 (A) Dyestuff intermediate (B) Intermediate for polymer
 (C) Drug intermediate (D) Explosives
28. “Tagemate” is the commercial name of:
 (A) Cimetidine (B) Phenobarbital (C) Piperazine citrate (D) Diazepam
29. The salicylic acid derivatives found naturally in winter green oil is:
 (A) 2-acetoxy benzoic acid (B) Methyl salicylate
 (C) Ethyl salicylate (D) Phenyl salicylate
30. The product manufactured by batch process is:
 (A) Pasta (B) Juice (C) Ice cream (D) Pharmaceutical
31. The unsaturated fatty acid is:
 (A) Palmitic acid (B) Oleic acid (C) Stearic acid (D) Myristic acid
32. Rectified spirit is:
 (A) 75 % ethanol + 25 % water (B) 95.5 % ethanol + 4.5 % water
 (C) 50 % ethanol + 50 % water (D) 95 % ethanol + 5 % methanol
33. The catalyst used in hydrogenation of an oil is:
 (A) Pd/C (B) Raney Ni (C) $[(\text{PPh}_3)_3\text{RhCl}]$ (D) V_2O_5
34. Lavender oil is extracted by:
 (A) Steam distillation (B) Expression process (C) Effleurage process (D) Distillation
35. Among the following incorrect for rayon is:
 (A) Eco-friendly fiber (B) Artificial silk (C) Semi-synthetic polymer (D) Cellulosic fiber

36. Which among the following techniques is not considered as a unit operation ?
 (A) Crystallisation (B) Centrifugation (C) Evaporation (D) Detection
37. The animal fixative derived from certain whale is:
 (A) Musk (B) Civetone (C) Ambergris (D) Castoreum
38. Which among the following is phosphorous containing insecticides ?
 (A) BHC (B) Melathion (C) Aldrin (D) Zineb
39. Which among the following is not considered as a fire toxic hazardous compounds ?
 (A) Fog (B) Nitrogen oxide (C) Sulphur dioxide (D) Particulate matter
40. Cleaning action of soaps and detergents based on:
 (A) Micelle formation (B) Emulsification (C) Peptisation (D) Mercerization
41. Pyrethrum is:
 (A) Repellant (B) Natural insecticide (C) Plant hormones (D) Synthetic insecticides
42. R.D.X is most powerful explosives manufactured by nitration, chemically it is:
 (A) Cyclonite (B) Dynamite (C) Cordite (D) Gun powder
43. Identify the following compound:

 (A) Cimetidine (B) Phenobarbital (C) Piperazine citrate (D) Diazepam
44. What is DDT among the following ?
 (A) Green house gas (B) A fertilizer (C) Non biodegradable pollutant (D) Bio-degradable pollutant
45. Among the following does not act as growth regulatory of plants is:
 (A) Ascorbic acid (B) Gibberillins (C) Absciscic acid (D) Cytokinins
46. The most common patent is:
 (A) Design patent (B) Plant patent (C) Utility patent (D) All the given above
47. Which among the following considered as a micro-nutrient for plants ?
 (A) Phosphorous (B) Calcium (C) Zinc (D) Nitrogen
48. Pure ethanol is manufactured by:
 (A) Membrane technology (B) Fermentation (C) Reverse osmosis (D) Fractional distillation
49. The substance that prevents the spoilage food from the micro-organism is called:
 (A) Preservatives (B) Anti-oxidant (C) (A) and (B) both (D) None of these
50. Consider the nitration of benzene using mixed conc. H_2SO_4 and HNO_3 . If a large amount of KHSO_4 is added to the mixture, the rate of nitration will be:
 (A) Unchanged (B) Doubled (C) Faster (D) Slower