Pharmaceutical Organic Chemistry-II

B. Pharm Second Internal Examination (2020-2021)
Date: 13/08/2020
Semester: 3
Subject: Pharmaceutical Organic Chemistry-II (BP301T)
Instructions:
1. All Questions are compulsory.
2. Each question carry 1 mark.
* Required

1. Enrollment No *

_____

2. Methyl benzoate on hydrolyis gives * 1 point

Mark only one oval.

- ( ) Acetic acid
- (✓) Benzoic acid
- ( ) picric acid
- ( ) Phenylacetic acid

3. Which of the following is not a carboxylic acid? * 1 point

Mark only one oval.

- ( ) Malonic acid
- ( ) Acetic acid
- (✓) Picric acid
- ( ) Adipic acid

4. Benzoyl chloride on basic-hydrolysis (NaoH/H2O) gives * 1 point

Mark only one oval.

- ( ) Benzoic acid
- ( ) Methyl benzoate
- (✓) Sodium benzoate
- ( ) Ethyl benzoate

5. Sodium benzoate on heating with soda-lime gives * 1 point

Mark only one oval.

- ( ) Sodium Phenoxide
- (✓) Benzene
- ( ) Benzaldehyde
- ( ) Benzophenone

6. Anthracene is used in synthesis of_____ * 1 point

Mark only one oval.

- ( ) anthraquinone
- ( ) alizarin
- ( ) Dithrol
- (✓) All of above

7. Anthracene is a polycyclic aromatic hydrocarbon composed of three fused____rings * 1 point

Mark only one oval.

- ( ) Ethylene
- ( ) Benzene
- ( ) Alkane
- ( ) Pyridine

8. All carbon atom in napthalene are * 1 point

Mark only one oval.

- ( ) sp hybridized
- ( ) sp2 hybridized
- ( ) sp3 hybridized
- ( ) none of these

9. Oleic acid a fatty acid containing * 1 point

Mark only one oval.

- ( ) 12 carbons
- ( ) 14 carbons
- ( ) 16 carbons
- ( ) 18 carbons

10. Both stearic acid and linoleic acid have 18 carbons. Linoleic acid is unsaturated,while stearic acid is saturted. The melting point of stearic acid: * 1 point

Mark only one oval.

- ( ) is higher than linoleic acid
- ( ) is lower than linoleic acid
- ( ) is same as linoleic acid
- ( ) can not predict,insufficient information

11. Liquids oils can be converted to solid fats by * 1 point

Mark only one oval.

- ( ) Hydrogenation
- ( ) Saponification
- ( ) Hydrolysis
- ( ) Oxidation of double bonds

12. The degree of unsaturation of a fat can be determined by means of its * 1 point

Mark only one oval.

- ( ) Melting point
- ( ) Iodine number
- ( ) Saponification number
- ( ) Octane number

13. Fats and oils are * 1 point

Mark only one oval.

- monoesters of glycerol
- diesters of glycerol
- triesters of glycerol
- diester of glycol

14. How many resonance structures are there for anthracene? * 1 point

Mark only one oval.

- 1
- 2
- 4
- 3

15. How many resonance structures are there for phenanthrene? * 1 point

Mark only one oval.

- 4
- 2
- 6
- 5

16. Anthracene and phenanthrene are undergoes electrophilic substitution at C-9 position. * 1 point

Mark only one oval.

- True
- False
- Not predicted
- None of above

17. Unlike _____, the carbon-carbon bonds in naphthalene are not of the same length. * 1 point

Mark only one oval.

- Pyridine
- Benzene
- Ethylene
- Alkane

18. Phenanthrene is a polycyclic aromatic hydrocarbon composed of three fused____rings * 1 point

Mark only one oval.

- Pyridine
- Alkane
- Ethylene
- Benzene

19. Anthracene ungergoes oxidation with O2/V2O5 at 500C to give * 1 point

Mark only one oval.

- Benzoic acid
- Anthraquinone
- Phthalic acid
- Benzophenone

20. Anthracene undergoes electrophilic substitution reactions mainly at * 1 point

Mark only one oval.

- ( ) C-1
- ( ) C-2
- (✓) C-9
- ( ) C-1 & C-2

21. Naphthalene undergoes reduction with H2 in the presence of Ni catalyst at high temp. and Pressure to give * 1 point

Mark only one oval.

- ( ) Phthalic acid
- (✓) Decalin
- ( ) Benzoivc acid
- ( ) Tertalin

22. Naphthalene undergoes oxidation with Na2Cr2O7 to form: * 1 point

Mark only one oval.

- (✓) Phthalic acid
- ( ) Benzoic acid
- ( ) Tetralin
- ( ) Salicylic acid

23. Diphenyl methane is used in synthesis * 1 point

Mark only one oval.

- ( ) Benzoic acid
- (✓) Acetaminophen
- ( ) Phthalic acid
- ( ) Benzophenone

24. Triphenyl methane is used in * 1 point

Mark only one oval.

- (✓) Malachite green
- ( ) Alizarin
- ( ) phthalic acid
- ( ) Congo red

25. Anthracene undergoes electrophilic substitution reaction mainly at: * 1 point

Mark only one oval.

- ( ) C1
- ( ) C3
- ( ) C2
- (✓) C9 and C10

26. The number of milligrams of KOH required for the saponification of one gram of oil or fat is called _____ * 1 point

Mark only one oval.

- ( ) Acid number
- ( ) Iodine number
- ( ) Richert-Meissl number
- (✓) Saponification number

27. Iodine number is defined as number of grams of iodine needed for the iodination of_____ gram/grams of oil or fat. * 1 point

Mark only one oval.

- 1
- 5
- 100
- 1000

28. Which of the following tells the amount of free fatty acids present in fat or oil? * 1 point

Mark only one oval.

- Acid number
- Iodine number
- Saponification number
- Richert-Meissl number

29. Which of the following helps in the classification of oils into drying, semi-drying and non-drying categories? * 1 point

Mark only one oval.

- Acid number
- Iodine number
- Saponification number
- Richert-Meissl number

30. Soap is * 1 point

Mark only one oval.

- a mixture of salts of fatty acids
- a salt of glycerol
- a mixture of ethers
- a mixture of aromatic ethers

31. Which of the following is not saponify? * 1 point

Mark only one oval.

- Fats
- Oils
- Steroids
- none of the above

32. It contains carbon-carbon single bonds in side chain of carboxylic acid. * 1 point

Mark only one oval.

- Saturated fatty acids
- Unsaturated fatty acids
- carboxylic acid
- none of the above

33. Which of the following is an example of fats? * 1 point

Mark only one oval.

- Glyceryl trioleate
- Vegetable Ghee
- Coconut oil
- Groundnut oil

34. Which of the following is not a suitable solvent for oils and fats? * 1 point

Mark only one oval.

- Benzene
- CCl4
- CHCl3
- Water

35. Which of the following is responsible for rancidity? * 1 point

Mark only one oval.

- Alkalies
- Ketones
- Aldehydes
- Alcohols

36. Which acid is weaker than benzoic acid? * 1 point

Mark only one oval.

- p-Methylbenzoic acid
- p-Chlorobenzoic acid
- p-Nitrobenzoic acid
- o-Chlorobenzoic acid