

Test Booklet

Series

**A**

Test Booklet No.

**Test Booklet for the Post of  
Assistant Professor Pharmacy**

Name of Applicant ..... Answer Sheet No. ....

Applicant Roll No. : ..... Signature of Applicant : .....

Date of Examination: ..... Signature of the Invigilator(s)

1. ....

Time of Examination : ..... 2. ....

**Duration : 1 Hour]**

**[Maximum Marks : 50**

**IMPORTANT INSTRUCTIONS**

- (i) The question paper is in the form of Test-Booklet containing **50 (Fifty)** questions. All questions are compulsory. Each question carries four answers marked (A), (B), (C) and (D), out of which only one is correct. Choose the correct option or the most appropriate option.
- (ii) On receipt of the Test-Booklet (Question Paper), the candidate should immediately check it and ensure that it contains all the pages, i.e., **50** questions. Discrepancy, if any, should be reported by the candidate to the invigilator immediately after receiving the Test-Booklet.
- (iii) A separate Answer-Sheet is provided with the Test-Booklet/Question Paper. On this sheet there are **50** rows containing four circles each. One row pertains to one question.
- (iv) The candidate should write his/her Application number at the places provided on the cover page of the Test-Booklet/Question Paper and on the Answer-Sheet and **NOWHERE ELSE**.
- (v) No second Test-Booklet/Question Paper and Answer-Sheet will be given to a candidate. The candidates are advised to be careful in handling it and writing the answer on the Answer-Sheet.
- (vi) For every correct answer of the question **One (1) mark will be awarded**. For every unattempted question, Zero (0) mark shall be awarded. **There is no Negative Marking**.
- (vii) Marking shall be done only on the basis of answers responded on the Answer-Sheet.
- (viii) To mark the answer on the Answer-Sheet, candidate should **darken** the appropriate circle in the row of each question with Blue or Black pen.
- (ix) For each question only **one** circle should be **darkened** as a mark of the answer adopted by the candidate. If more than one circle for the question are found darkened or with one black circle any other circle carries any mark, the question will be treated as cancelled.
- (x) The candidates should not remove any paper from the Test-Booklet/Question Paper. Attempting to remove any paper shall be liable to be punished for use of unfair means.
- (xi) Rough work may be done on the blank space provided in the Test-Booklet/Question Paper only.
- (xii) *Mobile phones (even in Switch-off mode) and such other communication/programmable devices are not allowed inside the examination hall.*
- (xiii) No candidate shall be permitted to leave the examination hall before the expiry of the time.

**DO NOT OPEN THIS QUESTION BOOKLET UNTIL ASKED TO DO SO.**

Pharmacy

[P.T.O.

**2 / 1**



1. .... is generally used for standard to determine chemical shift of Compounds in NMR study.
  - (A) Ethanol
  - (B) KBr
  - (C) Tetramethylsilan
  - (D) n-Hexane
  
2. Gold beater skin test is used to distinguish between .....
  - (A) Hydrolysable and condensed tannin
  - (B) True tannin and pseudotannin
  - (C) Pale catechu and black catechu
  - (D) Gallitannin and Ellagitannin
  
3. The bell crank lever arrangement is major part of which of the following ?
  - (A) Cyclone separator
  - (B) Edge runner Mill
  - (C) End runner Mill
  - (D) Bag filter
  
4. In Azeotropic distillation \_\_\_\_\_ remains low.
  - (A) Heat
  - (B) Volatility
  - (C) Relativity Volatility
  - (D) None of these
  
5. Lyophilization is also known as .....
  - (A) Drying by sublimation
  - (B) Freeze drying
  - (C) Both (A) & (B)
  - (D) None
  
6. Losartan is .....
  - (A) Renin release blocker
  - (B) ACE inhibitor
  - (C) Angiotension I blocker
  - (D) Angiotension II blocker
  
7. Which of the following antiarrhythmic drug has the most prominent anticholinergic action?
  - (A) Disopyramide
  - (B) Quinidine
  - (C) Procainamide
  - (D) Lignocaine
  
8. Which of the following is not included in Extraction techniques for aromatic plants?
  - (A) Headspace trapping
  - (B) Microdistillation
  - (C) Phytonic extraction
  - (D) Hydrodistillation techniques
  
9. Which drug is used in hepatoprotective drug?
  - (A) Garcenia
  - (B) Amla
  - (C) Vinca
  - (D) Lobelia
  
10. Antimony trichloride test is used for .....
  - (A) Tannin
  - (B) Alkaloid
  - (C) Glycoside
  - (D) All of above
  
11. Which statement is not true for a meso compound?
  - (A) The specific rotation is 0°.
  - (B) There are one or more planes of symmetry.
  - (C) More than one stereogenic center must be present.
  - (D) The stereo chemical labels, (R) and (S), must be identical for each stereogenic centre.

12. Aqueous iodine solution is also known as .....
- (A) Lugol's solution
  - (B) Hassi's solution
  - (C) IOL's solution.
  - (D) Martin's solution.
13. Phase separation of an emulsion is due to .....
- (A) Coalsance
  - (B) Temperature change
  - (C) Phase change
  - (D) All of these
14. Nasal drops should have pH .....
- (A) 5-6
  - (B) 6-7
  - (C) 7-8
  - (D) 8-9
15. When the medicine is administered into the spinal cavity, this route is known as-
- (A) Intrathecal
  - (B) Intra osseous
  - (C) Intra peritoneal
  - (D) Intracardiac
16. 5% glucose saline means .....
- (A) Each 100 ml contains 5 gms glucose and 5 gm sodium chloride
  - (B) Each 100 ml. contains 5 gms. glucose and 0.9 gm, sodium chloride.
  - (C) Each 100 ml contains 5 gms. glucose and 0.4 gms sodium chloride.
  - (D) Each 100 ml contains 0.5 gms. glucose and 0.9 gm. sodium chloride
17. The antidote of morphine overdose is .....
- (A) N-acetyl cysteine
  - (B) Naloxone
  - (C) Atropine sulphate
  - (D) Esmolol
18. Clofibrate is synthesized from .....
- (A) o-chloro phenol
  - (B) m-chloro phenol
  - (C) p-chloro phenol
  - (D) 3,4-dichloro phenol
18. Hexane and 3-methylpentane are examples of .....
- (A) enantiomers.
  - (B) stereoisomers.
  - (C) diastereomers.
  - (D) constitutional isomers.
19. For being chiral compound, chemical compound should not possess following characteristic:
- (A) Plane of symmetry
  - (B) Centre of symmetry
  - (C) Axis of symmetry
  - (D) All of the above
20. The phenomenon which involves separation of macromolecular solutions into two liquid layers is called as .....
- (A) Liquid separation
  - (B) Coagulation
  - (C) Flocculation
  - (D) Coacervation

21. Drugs not to be sold/stored by licence in form no. 10 related to .....
- (A) Schedule B
  - (B) Schedule D
  - (C) Schedule F
  - (D) Schedule G
22. The study of absorption of visible radiation whose wavelength range from 400 nm-800 nm is known as .....
- (A) UV spectroscopy
  - (B) IR spectroscopy
  - (C) Visible spectroscopy
  - (D) NMR spectroscopy
23. Which of the following is type of structure isomers?
- (A) Tautomerism
  - (B) Metamerism
  - (C) Functional isomerism
  - (D) All of the above
24. Which of the following statement is not correct for benzene?
- (A) Heat of hydrogenation and combustion are lower than expected value
  - (B) Benzene undergoes addition reaction rather than substitution reaction
  - (C) All C=C in benzene have an intermediate bond length between C-C and C=C
  - (D) Benzene follows Huckel's rule
25. What is the chemical name of Rochelle Salt?
- (A) Potassium tartrate
  - (B) Sodium chloride
  - (C) Sodium Potassium tartrate
  - (D) Potassium chloride
26. The shape of methane molecule is .....
- (A) Linear
  - (B) Trigonal planar
  - (C) Square planar
  - (D) Tetrahedral
27. Which antibiotic is protein synthesis inhibitor?
- (A) Penicillin
  - (B) Cephalosporin
  - (C) Erythromycin
  - (D) Rifampin
28. Dimercaprol is a chelating agent used in the treatment of .....
- (A) Arsenic poisoning
  - (B) Lead poisoning
  - (C) Iron poisoning
  - (D) Vanadium poisoning
29. Proteins occur naturally in how many forms?
- (A) 25
  - (B) 20
  - (C) 21
  - (D) 15

30. Which of the following polyols used as humectants in creams?  
 (A) Glycerine  
 (B) Propylene Glycol  
 (C) Sorbitol 70%  
 (D) All of the above
31. In nail polish, following polymer is used as a film-former .....  
 (A) Nitrocellulose  
 (B) Polylactic acid  
 (C) Hydroxypropyl methylcellulose  
 (D) Cellulose acetate phthalate
32. Which is most recently used reagent for validation of HEPA filter?  
 (A) Emory 3004  
 (B) LAL Reagent  
 (C) Alcohol  
 (D) None
33. Value of angle of repose  $< 30$  indicates?  
 (A) Good flow property  
 (B) Passable  
 (C) Excellent flow property  
 (D) Poor
34. If drug has pKa value of 3 then at pH value of 7 what would be the degree of ionisation of the drug?  
 (A) Majority Portion Would Be Ionised  
 (B) Majority Portion Would Be Unionised  
 (C) Approximately 50% Would Be Ionised And 50% Unionised  
 (D) None of the Above
35. Passive diffusion is expressed by .....  
 (A) Fick's First Law of Diffusion  
 (B) Fick's Second Law of Diffusion  
 (C) First Order Kinetics  
 (D) Zero Order Kinetics
36. For healing duodenal ulcer the usual duration of H<sub>2</sub> blocker therapy is .....  
 (A) 4 weeks  
 (B) 6 weeks  
 (C) 8 weeks  
 (D) 12 weeks
37. Which of the following is a G protein coupled receptor?  
 (A) Muscarinic cholinergic receptor  
 (B) Nicotinic cholinergic receptor  
 (C) Glucocorticoid receptor  
 (D) Insulin receptor
38. Which method is not used for evaluation of volatile oil containing drugs?  
 (A) Noller test  
 (B) Salkowski test  
 (C) Antimony trichloride  
 (D) All of Above
39. Which parts are involved in preparation of *Alium sativum*?  
 (A) bulb of garlic  
 (B) dried peel of cloves of garlic  
 (C) powder of leaves of garlic  
 (D) all of above
40. Borntrager's Test is used for detection of .....  
 (A) Anthraquinone glycosides  
 (B) Cardiac glycosides  
 (C) Saponin glycosides  
 (D) Flavone Glycosides

41. Bryostatin is used as .....
- Antidiabetic agent
  - Anticancer agent
  - Tranquiliser
  - Hepatoprotective agent
42. The antiarrhythmic drug which decreases both rate of depolarization (phase 0) as well as rate of repolarization (phase 3) of myocardial fibres is .....
- Lignocaine
  - Propranolol
  - Quinidine
  - Verapamil
43. In HMG-CoA-Reductase Inhibitors, Lactone ring may be substituted at .....
- C-15
  - C-16
  - C-17
  - C-18
44. Analysis and test of samples of vaccines are carried out at .....
- Central Indian Pharmacopeia Laboratory, Ghaziabad
  - Pasteur Institute of India, Coonoor
  - Central Drug Testing Laboratories, Thane
  - Central Research Institute, Kaushali
45. Standard of Quality for drugs are prescribed in .....
- The first schedule to D & C Act, 1940
  - The Second Schedule to the D & C Act, 1940
  - The Schedule D to the Drugs and Cosmetic Rules, 1945
  - The schedule J to the D & C Rules, 1945
46. UV-Visible spectroscopy is based on the principle of .....
- Lambert Beer's Law
  - Faraday Law
  - Bernoulli's Principle
  - None of the above
47. The unit of measurement in IR spectroscopy is .....
- nm
  - ml
  - $\text{cm}^{-1}$
  - $\mu\text{L}$
48. .... pathway is involved in the biosynthesis of aromatic amino acids.
- Shikimic acid
  - Acetate mevalonate
  - Melonic acid
  - Glycolysis
49. Purine alkaloids are present in .....
- Aloe
  - Coffee
  - Milk
  - Gum acacia
50. Which of the following saponin containing drug is used as sweetener?
- Liquorice
  - Ginseng
  - Brahmi
  - Fenugreek

## ROUGH WORK