

72/24

Question Booklet Sl. No.

Question Booklet Alpha Code

A

A

Total Number of Questions : 100

Time : 90 Minutes

Maximum Marks : 100

**INSTRUCTIONS TO CANDIDATES**

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator **IMMEDIATELY**.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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A

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1. A process that removes infection potentials by destroying microorganisms
  - A) Granulation
  - B) Sterilization
  - C) Clarification
  - D) Disinfection
  
2. The holding temperature and minimum time using for moist heat sterilization in an autoclave
  - A) 115°C to 116°C for 30 minutes
  - B) 100°C to 111°C for 60 minutes
  - C) 115°C to 118°C for 60 minutes
  - D) 121°C to 124°C for 30 minutes
  
3. Which of the following filter is not a bacteria proof one ?
  - A) Ceramic filter
  - B) Membrane filter
  - C) Seitz filter
  - D) Filter cloth
  
4. Tablets which are designed to place under the tongue for disintegration/dissolution and absorption directly are called
  - A) Buccal tablets
  - B) Chewable tablets
  - C) Sublingual tablets
  - D) Dispensing tablets
  
5. Substances that reduce inter particular friction during compression of granules and friction between tablet and die wall during the ejection of tablets
  - A) Glidants
  - B) Lubricants
  - C) Adsorbents
  - D) Diluents
  
6. The property of an ideal enteric coating material, which is used for tablet coating is
  - A) Resistance to gastric fluid
  - B) Resistance to intestinal fluid
  - C) Liable to cracking and chipping
  - D) Water proof coating is required prior to coating
  
7. Cellulose acetate phthalate is a tablet coating material using for
  - A) Sugar coating
  - B) Syrup coating
  - C) Enteric coating
  - D) Film coating
  
8. Coacervation technique is used for
  - A) Dry granulation
  - B) Sterilization by mechanical method
  - C) Microencapsulation
  - D) Testing mechanical strength of tablets

- 9. What is the use of Sorbitol in soft gelatin capsules ?
  - A) As a preservative
  - B) As an opacifying agent
  - C) As a sweetening agent
  - D) As a plasticizer
- 10. The time specified for the disintegration of soft gelatin capsules as per Indian Pharmacopoeia
  - A) 30 minutes
  - B) 60 minutes
  - C) 90 minutes
  - D) 45 minutes
- 11. Compound Tragacanth powder is using in suspension containing indiffusible solids as a
  - A) Protective colloid
  - B) Colouring agent
  - C) Flavouring agent
  - D) Humectant
- 12. The pharmaceutical substance light magnesium carbonate is a
  - A) Soluble solid
  - B) Indiffusible solid
  - C) Diffusible solid
  - D) Potent drug
- 13. What is the ratio of phenol and purified water for preparing liquefied phenol as per IP ?
  - A) 10 : 90
  - B) 80 : 20
  - C) 50 : 50
  - D) 70 : 30
- 14. The Hydrophilic-Lipophilic-Balance (H.L.B.) range of o/w type emulsion forming emulgents is
  - A) 15 – 18
  - B) 7 – 9
  - C) 8 – 18
  - D) 13 – 15
- 15. In case of temporary or permanent renal failure, the removal of waste products and the maintenance of electrolyte balance, is done by
  - A) Haemodialysis
  - B) Filtration
  - C) Radiation
  - D) Infusion
- 16. Cosmetic products which are used to reduce the sweat formation and body odour
  - A) Antiperspirants and Deodorants
  - B) Shampoos
  - C) Depilatory agent
  - D) Cleansing creams

17. Type of injections are given between the duramater and the inner aspects of the vertebra-route are
- A) Intrathecal injections                      B) Intracisternal injections  
C) Intra-articular injections                D) Peridural injections
18. The animal which is used to perform pyrogen test in injections
- A) Dog    B) Cat  
C) Rabbit                                         D) Horse
19. Filter which is using for making the air in the aseptic area free from fibres, dust and microorganism
- A) High efficiency particulate air filters    B) Meta filters  
C) Filter candles                                D) Sintered filters
20. The base which is not suitable for the preparation of eye ointment base
- A) Yellow soft paraffin                        B) White soft paraffin  
C) Liquid paraffin                              D) Wool fat
21. Which of the following statement is correct about hydrochloric acid IP ?
- A) It is an aqueous solution of hydrogen chloride in water and of purity not less than 35% w/w and not more than 38% w/w of HCl  
B) It is an aqueous solution of hydrogen chloride in water and of purity not less than 38% w/w and not more than 40% w/w of HCl  
C) It is a concentrated solution of hydrochloric acid of purity not less than 97% w/w and not more than 102% w/w of HCl  
D) It is a concentrated solution of hydrochloric acid of purity not less than 95% w/w and not more than 100% w/w of HCl
22. Dilute hydrochloric should have purity and specific gravity \_\_\_\_\_ and \_\_\_\_\_ as per IP.
- A) Purity 9.8 to 10.8% w/w and specific gravity 1.04 – 1.05 g/ml  
B) Purity 8.5 to 10.5% w/w and specific gravity 1.34 – 1.15 g/ml  
C) Purity 8.5 to 10.5% w/w and specific gravity 1.04 – 1.25 g/ml  
D) Purity 9.5 to 10.5% w/w and specific gravity 1.04 – 1.05 g/ml

23. Which one among the given options is not the natural source of boric acid ?
- A) Borocalcite  
B) Leucite  
C) Colemanite  
D) Borax
24. Which of the following statement is correct about strong ammonium hydroxide solution ?
- A) It is an aqueous solution of ammonia of purity not less than 27% w/v and not more than 30% w/v of ammonia  
B) It is an aqueous solution of ammonia of purity not less than 37% w/v and not more than 42% w/v of ammonia  
C) It is an aqueous solution of ammonia of purity not less than 32% w/v and not more than 38% w/v of ammonia  
D) It is an aqueous solution of ammonia of purity not less than 27% w/v and not more than 32% w/v of ammonia
25. Thiamine hydrochloride is sensitive to a pH over 5, hence thiamine hydrochloride injection B.P. is maintained at a pH
- A) 3 – 4.5  
B) 1.1 – 4.5  
C) 2.8 – 3.4  
D) 1.5 – 3.9
26. Limit test for chlorides in potassium permanganate is performed by first decolorizing it by treating with
- A) Bleaching powder  
B) Acetone  
C) Ethanol  
D) Acetic acid
27. Iodine tincture contains \_\_\_\_\_ percentage of iodine.
- A) 5  
B) 7  
C) 2.5  
D) 10
28. Borax is
- A) Disodium pentaborate  
B) Disodium tetraborate  
C) Monosodium hexaborate  
D) Monosodium heptanoate
29. Twenty volume hydrogen peroxide aqueous solution should contain not less than \_\_\_\_\_  $\text{H}_2\text{O}_2$ .
- A) 4%  
B) 8%  
C) 10%  
D) 6%

30. Which statement is/are true about ammonium chloride ?
- i) Ammonium chloride is assayed by Volhard's method.
  - ii) Ammonium chloride is assayed by acid-base titration.
  - iii) Ammonium chloride is a reflux expectorant.
  - iv) Ammonium chloride is an antidote for cyanide poisoning.
- A) Only iv    B) Only i and ii  
C) Only i, ii and iii    D) Only iii
31. Proflavine is an acridine derivative having two amino groups at positions
- A) 3 and 6    B) 2 and 8  
C) 4 and 7    D) 9 and 4
32. \_\_\_\_\_ is a long-acting sulphonamide.
- A) Sulphaguanidine    B) Pthalyl Sulphathiazole  
C) Sulphadimethoxine    D) Sulphacetamide
33. \_\_\_\_\_ is an antibiotic having hydronaphthalene ring.
- A) Benzyl Penicillin    B) Tetracycline  
C) Cloxacillin    D) Chloramphenicol
34. Beta-lactum ring is having double bond between \_\_\_\_\_ which maintains the strained ring system and increases beta-lactamase resistance.
- A) Carbon 1 and Carbon 2    B) Carbon 3 and Carbon 4  
C) Carbon 2 and Carbon 3    D) Carbon 4 and Carbon 5
35. Which antimalarial drug given below is a fully substituted pyrimidine ?
- A) Proguanil    B) Primaquine  
C) Pyrimethamine    D) Pamaquine
36. Chlorpromazine has the following biological actions except \_\_\_\_\_ action. Select the exception from the options.
- A) Anticancer    B) Sedative  
C) Anti-emetic    D) Antipruritic
37. The drug which is not a catecholamine is
- A) Adrenaline    B) Nor Adrenaline  
C) Dopamine    D) Ephedrine

38. Atropine has the following uses except \_\_\_\_\_. Select the exception from the options.
- A) Symptomatic treatment of Parkinsonism
  - B) Used as Pre-anesthetic medication
  - C) Used as Antispasmodic in radiological examination of gut
  - D) Used to treat urinary tract obstruction
39. \_\_\_\_\_ is a loop diuretic.
- A) Chlorothiazide
  - B) Furosemide
  - C) Urea
  - D) Mannitol
40. \_\_\_\_\_ is the anticancer drug which acts as antimetabolite of folic acid.
- A) Chlorambucil
  - B) Methotrexate
  - C) Busulphan
  - D) Azathioprine
41. Aloe emodin present in aloe is detected by
- A) Modified Borntrager's test
  - B) Cupraloin test
  - C) Borax test
  - D) Nitric acid test
42. The aroma of ginger is due to the presence of
- A) Zingerone
  - B) Gingerol
  - C) Zingiberene
  - D) Citral
43. Vanillin is synthesized from
- A) Eugenol
  - B) Linalool
  - C) Menthol
  - D) Fenchone
44. Which of the following drug is used as cardiac depressant ?
- A) Belladonna
  - B) Punarnava
  - C) Cinchona
  - D) Ergot
45. Which crude drug is known as St. Antony's fire ?
- A) Digitalis
  - B) Ergot
  - C) Opium
  - D) Ephedra
46. The saponin glycoside present in digitalis is
- A) Gitaloxin
  - B) Digitonin
  - C) Digitoxose
  - D) Gitoxin



47. Which of the following is the source of citral ?  
A) Lemongrass oil    B) Arachis oil  
C) Sandalwood oil     D) Castor oil
48. Paracytic stomata is present in  
A) Vasaka leaves    B) Digitalis leaves  
C) Senna leaves     D) Belladonna leaves
49. The euginol content of clove oil is  
A) 16 – 21%    B) 8 – 10%  
C) 3 – 4%     D) 85 – 90%
50. Papain is used as  
A) Anti-diabetic     B) Anti-hypertensive  
C) Anti-inflammatory                                         D) Cardiac tonic
51. Which among the following is not an atypical antipsychotic agent ?  
A) Risperidone     B) Olanzapine  
C) Bupropion     D) Zotepine
52. \_\_\_\_\_ is a vasicoselective anticholinergic agent.  
A) Dicyclomine     B) Flavoxate  
C) Atropine    D) Benzhexol
53. Compound used in the treatment of morphine addiction is  
A) Methadone    B) Naloxone  
C) Tramadol     D) Nalorphine
54. Antihypertensive agent safely used in pregnancy  
A) Enalapril    B) Losartan  
C) Atenolol    D) Alpha methyl dopa
55. Drug effective in petitmal epilepsy  
A) Phenytoin     B) Ethosuximide  
C) Phenobarbitone    D) Clobazam

56. A protease inhibitor used in the treatment of AIDS
- |               |               |
|---------------|---------------|
| A) Indinavir  | B) Nevirapine |
| C) Zidovudine | D) Tenofovir  |
57. Which among the following is a source of nitric oxide ?
- |                        |               |
|------------------------|---------------|
| A) Nifedipine          | B) Verapamil  |
| C) Glyceryl trinitrate | D) Nicorandil |
58. Malignant hyperthermia is associated with which among the following drug ?
- |                 |               |
|-----------------|---------------|
| A) Streptomycin | B) Clonazepam |
| C) Atenolol     | D) Halothane  |
59. Which among the following is an example for drug synergism ?
- |                          |                   |
|--------------------------|-------------------|
| A) Cotrimoxazole         | B) INH-Pyridoxine |
| C) Haloperidol-Benzhexol | D) Clotrimazole   |
60. Urinary infection is common with which among the following antidiabetic agent ?
- |                 |                  |
|-----------------|------------------|
| A) Vildagliptin | B) Canagliflozin |
| C) Acarbose     | D) Glipizide     |
61. The date in which the Narcotic Drugs and Psychotropic Substances Act and Rules, 1985 came into force in India on
- |                     |                     |
|---------------------|---------------------|
| A) 1 January 1986   | B) 14 November 1985 |
| C) 14 December 1985 | D) 1 January 1985   |
62. According to Narcotic Drugs and Psychotropic Substances Act, 1985, poppy straw is defined as
- |  |
|--|
| A) All parts of the opium poppy after harvesting   |
| B) All parts (except the seeds) of the opium poppy after harvesting whether in their original form |
| C) All parts (except the leaves and stem) after harvesting of the plant opium poppy                |
| D) Juice from the seeds and leaves of opium poppy after harvesting                                 |
63. The minimum number of registered pharmacist normally nominated by the state government to the state pharmacy council
- |      |      |
|------|------|
| A) 1 | B) 2 |
| C) 3 | D) 4 |

64. The trial for the offences under Drugs and Magic Remedies Act and Rules, 1955 can be carried out only in
- A) Special court for drugs                      B) Chief judicial magistrate court  
C) Magistrate of first class                      D) Sessions court
65. The punishment for a subsequent violation of Drugs and Magic Remedies Act and Rules, 1955 is
- A) Imprisonment upto 3 months or with fine or both  
B) Imprisonment upto 6 months or with fine or both  
C) Imprisonment upto 12 months or with fine or both  
D) Imprisonment upto 24 months or with fine or both
66. Which of the following statement is correct about spurious drugs ?
- A) Drugs not labelled in the prescribed manner  
B) Drugs which bear names of other drugs  
C) Drugs containing color other than those prescribed  
D) Drugs packed in containers composed of poisonous or deleterious substance
67. The license for retail sale of Schedule X drugs is issued in
- A) Form 19    B) Form 20  
C) Form 20F    D) Form 21
68. The sample taken by a drugs inspector from a drug manufacturing premise is divided into
- A) 2 portions    B) 3 portions  
C) 4 portions    D) 5 portions
69. Which among the given drugs belong to Schedule C1 class ?
- A) Insulin injection                                      B) Tetanus toxoid  
C) BCG vaccine    D) Oral polio vaccine
70. As per Schedule P of the Drugs and Cosmetic Act and Rules 1945, store in a cool place refers to the temperature
- A) 2°C – 8°C    B) 8°C – 15°C  
C) 10°C – 25°C    D) 10°C – 35°C



78. Which bank is mainly promoting export-import business in India ?  
A) SBI  
B) IDBI  
C) IOB  
D) EXIM
79. The working capital required by a business is normally not used for  
A) Purchase of raw material  
B) Payment of salary  
C) Purchase of machinery  
D) Payment of rent
80. Which application form (as per Drugs and Cosmetics Rules, 1945) is used to apply for a retail drug store license ?  
A) 19  
B) 19A  
C) 20  
D) 21
81. Name the instrument used to fix surgical towels in place during surgery.  
A) Horsley's type clip  
B) Bobcock's untoothed tissue forceps  
C) Gray's type clip  
D) Haemostatic forceps
82. Which is the health accessory used by the patient to promote proper body alignment ?  
A) Canes  
B) Orthopaedic braces  
C) Rib belts  
D) Knee caps
83. The first scientific Hospital Formulary in India was published in which year ?  
A) 1985  
B) 2002  
C) 1997  
D) 1968
84. Which of the statement is true for Beta propiolactone as an non-inflammable liquid to sterilize things in CSSD ?  
A) Irritant to eyes  
B) May cause shortness of breath  
C) Carcinogenic to skin  
D) All of the above
85. What is the use of diffuser in a sterile manufacturing area in a hospital ?  
A) Used to throw the particles towards the corner  
B) To clean the aseptic area  
C) Used environmental control  
D) To increase the visibility of manufacturing unit

86. Name the test which is employed to find out leakage in thermolabile products in hospital manufacturing.
- A) Visual method  
 B) Light blocking method  
 C) Spark detector method  
 D) Coulter counter method
87. Which one is the computer based database used to predict Pharmacokinetic parameters in a hospital set up ?
- A) NONLIN  
 B) MEDIPHOR  
 C) BIOSIS  
 D) PAD
88. What are the components present in the IV set, except ?
- A) Plastic spike  
 B) IV admixture  
 C) Flow regulator  
 D) Drip chamber
89. Dissertations are comes under which type of source of information ?
- A) Tertiary source  
 B) Secondary source  
 C) Primary source  
 D) None of the above
90. "Mobile dispensing unit" is mainly adopted to give medicines to patients comes under which type of drug distribution system ?
- A) Complete floor stock system  
 B) Unit dose dispensing system  
 C) Individual prescription order system  
 D) None of the above
91. Which drug causes the ADR cleft palate ?
- A) Thalidomide  
 B) Methotrexate  
 C) Insulin  
 D) Phenytoin
92. "Cheese reaction" is an example of which type of interaction ?
- A) Drug – drug interaction  
 B) Drug – food interaction  
 C) Drug – laboratory test interaction  
 D) None of the above
93. The interaction of barbiturates and MAOIs causes
- A) Prolonged action  
 B) Haemorrhage  
 C) Cataract  
 D) Alopecia

94. Which is used as an antidote for acute iron toxicity ?  
A) Atropine sulphate  
B) Desferrioxamine  
C) EDTA  
D) Tannic acid
95. Name the method used to stimulate respiration in a poisoned person.  
A) Anal stretch  
B) Universal antidote administration  
C) Gastric lavage  
D) Purgation
96. Which chemical agent can be used for alkalinisation of urine in barbiturate poisoning ?  
A) Sodium nitrate  
B) Potassium citrate  
C) Sodium bicarbonate  
D) Sodium lactate
97. As a Clinical Pharmacist, what drug would you recommend to relieve morning sickness in first trimester of pregnancy ?  
A) Thalidomide  
B) Phenytoin  
C) Dicyclomine  
D) Pyridoxine
98. "Gooseflesh" is one of the withdrawal symptoms of which type of drug use ?  
A) Barbiturates  
B) Alcohol  
C) Narcotics  
D) LSD
99. Name the condition which explains "is a state of periodic or chronic intoxication produced by the repeated consumption of a drug".  
A) Drug tolerance  
B) Drug misuse  
C) Detoxification  
D) Drug addiction
100. Azoturia is a clinical manifestation for the disease  
A) Hepatitis  
B) Diabetes mellitus  
C) Tuberculosis  
D) Peptic ulcer

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Space for Rough Work

