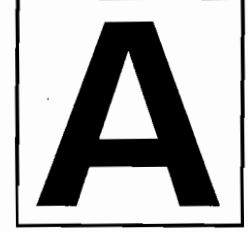


## प्रश्नपुस्तिका

चाळणी परीक्षा

वेळ : 1 तास



एकूण प्रश्न : 100

एकूण गुण : 100

## सूचना

- (1) सदर प्रश्नपुस्तिकेत 100 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.
- (2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.
- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.
- (4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- (6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच "उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची अचूक उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील".

## ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

**पुढील सूचना प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा**

पर्यवेक्षकांच्या सूचनेविना हे सील उघडू नये

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

1. 'Xerogel' refers to

- |                                    |                         |
|------------------------------------|-------------------------|
| (1) Hydrogel                       | (2) Dehydrated gel      |
| (3) Gel containing organic solvent | (4) Excess water in gel |
- 

2. Formula to relate doses for children to their age as per Young's rule is given by

(1)  $\frac{\text{Age in years}}{\text{Age in years} + 20} = \text{Proportion of adult dose}$

(2)  $\frac{\text{Age in years}}{20} = \text{Proportion of adult dose}$

(3)  $\frac{\text{Age in years}}{12} = \text{Proportion of adult dose}$

(4)  $\frac{\text{Age in years}}{\text{Age in years} + 12} = \text{Proportion of adult dose}$

---

3. Drugs with low therapeutic index have to be cautiously administered since

- (1) their median toxic dose is high
  - (2) they are very potent and have low dose
  - (3) difference between effective and toxic levels is less
  - (4) None of the above
- 

4. The concentration of dextrose isotonic with blood plasma is

- |              |               |
|--------------|---------------|
| (1) 0.9% w/v | (2) 4.5% w/v  |
| (3) 5% w/v   | (4) 0.45% w/v |
- 

5. Which of the following is commonly not used for packaging by pharmacists for filling a prescription ?

- |                           |                          |
|---------------------------|--------------------------|
| (1) Blister pack          | (2) Prescription bottles |
| (3) Sifter top containers | (4) Dropper bottles      |
- 

SPACE FOR ROUGH WORK

P.T.O.

6. Which of the following is **not** a method for enhancing transdermal permeation of drugs ?
- (1) Iontophoresis (2) Sonophoresis  
(3) Electrophoresis (4) Hydration of skin
- 
7. When hypotonic solution is injected intravenously it leads to
- (1) Shrinkage of RBCs  
(2) Haemolysis of RBCs  
(3) Neither shrinkage nor haemolysis  
(4) (1) and (2)
- 
8. A physician requests a 0.1% steroidal cream that is commercially available as a 0.25% strength in a vanishing cream base. Which one of the following ointment bases is the best choice as a diluent in this situation ?
- (1) Hydrophilic ointment (2) Vaseline  
(3) Lanolin (4) Cold cream
- 
9. What does Schedule W of Drugs and Cosmetics Act 1940 and Rules 1945 contain ?
- (1) List of drugs which shall be marketed under generic name only  
(2) Life period of drugs  
(3) Standards for cosmetics  
(4) Biological and special products
- 
10. What does DTAB abbreviate for ?
- (1) Drugs Technology Advisory Board  
(2) Directorate of Technological Advisory Board  
(3) Directorate of Technical Advisory Board  
(4) Drugs Technical Advisory Board
- 

SPACE FOR ROUGH WORK

11. Aqueous coating systems for water insoluble polymers are commonly prepared in the form of
- (1) solubilized systems by means of surfactant addition
  - (2) solutions with the aid of cosolvents
  - (3) pseudolatex systems which are colloidal dispersions
  - (4) None of the above
- 
12. Computer base PMRs are used for maintaining
- (1) Patient Medication Records
  - (2) Prescriptions of Prescriber
  - (3) Adverse Drug Reaction
  - (4) Inventory Control
- 
13. Pyrogens which cause a rise in body temperature when injected intravenously are structurally
- |                             |                                   |
|-----------------------------|-----------------------------------|
| (1) Bacterial phospholipids | (2) Bacterial lipopolysaccharides |
| (3) Viral DNA               | (4) Bacterial glycosides          |
- 
14. As per Schedule A of Drugs and Cosmetics Act 1940 and Rules 1945, Form 19-B is for
- (1) Application for licence to sell, stock or exhibit or offer for sale or distribute Homoeopathic medicines
  - (2) Licence to manufacture for sale or for distribution of Homoeopathic medicines
  - (3) Licence to manufacture for sale or for distribution of drugs other than those specified in Schedule C, C(I) & X
  - (4) Certificate of renewal of licence to sell, stock or exhibit or offer for sale or distribute Homoeopathic medicines
- 

SPACE FOR ROUGH WORK

P.T.O.

15. The degree of flocculation of a suspension is expressed as
- (1) Ratio of volume of flocculated sediment to total volume of suspension
  - (2) Ratio of total volume of suspension to volume of flocculated sediment
  - (3) Ratio of sedimentation volume of flocculated suspension to the sedimentation volume of the suspension when deflocculated
  - (4) Sediment volume of flocculated suspension
- 
16. Capping in tablets occurs due to
- (1) Defective dies and punches
  - (2) Damp granules
  - (3) Excessive fines
  - (4) (1) and (3)
- 
17. Toxicity at normal doses of Isoniazid is likely to be due to
- (1) Age
  - (2) Generic factor
  - (3) Disease state
  - (4) Renal function
- 
18. The Drugs Price Control Order is passed under
- (1) Essential Commodities Act
  - (2) Drugs and Cosmetics Act
  - (3) Pharmacy Act
  - (4) Control of Prices Act
- 
19. An adverse reaction relatively specific to the use of antibiotics belonging to the class of aminoglycosides is
- (1) Ototoxicity
  - (2) Occular toxicity
  - (3) Hepatotoxicity
  - (4) Aplastic anaemia
- 
20. Which of the following is a non-absorbable suture ?
- (1) Cat gut
  - (2) Reconstituted collagen
  - (3) Polyamide
  - (4) Kangaroo tendon
- 

SPACE FOR ROUGH WORK

21. Tolerance to one kind of drug that results in tolerance to a pharmacologically similar drug is known as

- |                            |                     |
|----------------------------|---------------------|
| (1) Synergistic dependence | (2) Reciprocity     |
| (3) Tolerance threshold    | (4) Cross tolerance |
- 

22. An extension of the normal pharmacological effect of a drug or its metabolite is termed as

- |                |                |
|----------------|----------------|
| (1) Type C ADR | (2) Type D ADR |
| (3) Type A ADR | (4) Type B ADR |
- 

23. While attending to patients during counselling sessions, the desirable body language should be

- I. Facing the patient directly.
- II. Leaning forward at a slight angle.
- III. Nodding and hand gestures.
- IV. Blank stares.

- |                   |              |
|-------------------|--------------|
| (1) I and II      | (2) Only I   |
| (3) I, II and III | (4) I and IV |
- 

24. A potentially life-threatening adverse drug effect may occur due to

- (1) Bronchoconstriction in asthmatics due to non-steroidal anti-inflammatory agents
  - (2) Osteoporosis caused by steroids
  - (3) Hirsutism induced by Minoxidil
  - (4) Retinopathy caused by Thioridazine
- 

25. Positive control in 'Test for Sterility' ensures

- |                                    |                                      |
|------------------------------------|--------------------------------------|
| (1) the sterility of all materials | (2) the nutritive property of medium |
| (3) the sterility of product       | (4) None of the above                |
- 

SPACE FOR ROUGH WORK

P.T.O.

26. As per I.P., for a batch size of 100 numbers (ampules, vials, etc.) of a parenteral product, minimum numbers recommended to be tested for sterility are
- (1) 10% or 4 numbers, whichever is greater
  - (2) 10% or 6 numbers, whichever is greater
  - (3) 5% or 2 numbers, whichever is greater
  - (4) 5% or 3 numbers, whichever is greater
- 
27. Addition of which of the following to a large volume parenteral product is **not** advised ?
- (1) Active pharmaceutical ingredient
  - (2) Preservatives
  - (3) Buffering agents
  - (4) Tonicity adjusters
- 
28. An ophthalmic solution of a mydriatic drug with a concentration of 5 mg/ml exhibits first-order degradation with a rate of 0.0005 mg/day. Estimate its half life.
- (1) 693 days
  - (2) 1,200 days
  - (3) 210 days
  - (4) 1,386 days
- 
29. Which microbe is used for validation of sterilization by membrane filtration process ?
- (1) *Bacillus stearothermophilus*
  - (2) *Pseudomonas aeruginosa*
  - (3) *Serratia marcescens*
  - (4) *Bacillus subtilis*
- 
30. Morphine sulphate comes under which Schedule of Drugs and Cosmetics Act ?
- (1) X
  - (2) K
  - (3) H
  - (4) G
- 
31. The dosage required to produce a desired pharmacological effect is called
- (1) Threshold dose
  - (2) Dose-response outcome
  - (3) Effective dose
  - (4) Maximum dose
- 

SPACE FOR ROUGH WORK



32. In form-fill-seal process the essential material used is

- |                           |                  |
|---------------------------|------------------|
| (1) Aluminium             | (2) Polyacrylate |
| (3) Paper-metal composite | (4) Polyethylene |
- 

33. Sonication of liposomal product may be related to conversion of

- |                |                       |
|----------------|-----------------------|
| (1) MLV to ULV | (2) SUV to MLV        |
| (3) MLV to SUV | (4) None of the above |
- 

34. Which of the following plots would be most helpful in deciding shelf life at a predetermined temperature ?

- (1) Remaining undegraded vs time
  - (2) Log remaining undegraded vs time
  - (3) Log rate vs log absolute temperature
  - (4) Log rate vs inverse of absolute temperature
- 

35. Which of the following statements regarding polymorphs is true ?

- (1) Polymorphic forms of the same drug are similar and can be substituted in a formulation
  - (2) Different polymorphic forms of the same drug have identical X-ray diffraction patterns
  - (3) The metastable polymorphic forms will generally result in a higher dissolution rate
  - (4) All of the above
- 

36. A solution of 1 in 2500 strength means

- |           |          |
|-----------|----------|
| (1) 0.04% | (2) 0.4% |
| (3) 0.25% | (4) 0.5% |
- 

SPACE FOR ROUGH WORK

P.T.O.

**37.** Hixon and Crowell Cube-root law is related to

- (1) Micro emulsification
  - (2) Drug dissolution
  - (3) Stability of API against hydrolytic degradation
  - (4) Sedimentation in liquids containing more than 10% suspended particles
- 

**38.** The term 'hydrotrophy' is used to denote

- (1) water uptake capacity
  - (2) water repulsion capacity
  - (3) increase in aqueous solubility due to presence of large amounts of additives
  - (4) wetting ability
- 

**39.** Patients on tranlycypromine therapy are in danger of undergoing a hypertensive crisis on consumption of a cheese rich diet due to

- (1) Interaction of tranlycypromine with calcium in cheese
  - (2) Inhibition of absorption of tranlycypromine by cheese
  - (3) Presence of antioxidant in cheese
  - (4) Tyramine content of cheese
- 

**40.** An estimate of the water absorption capacity of 100 gms of material as 'water number' is a parameter for evaluation of

- |                    |                      |
|--------------------|----------------------|
| (1) Hydrogels      | (2) Absorption bases |
| (3) Gelling agents | (4) Wetting agents   |
- 

**41.** Autoclavable plasticware for repeated sterilization is best fabricated using

- |                              |                   |
|------------------------------|-------------------|
| (1) Low density polyethylene | (2) Polystyrene   |
| (3) Polyvinyl chloride       | (4) Polypropylene |
- 

**SPACE FOR ROUGH WORK**

42. Scalpels and blades for surgery may be sterilized by

- |                             |                            |
|-----------------------------|----------------------------|
| (1) Boiling in a water bath | (2) Dry heat sterilization |
| (3) Membrane filtration     | (4) Aseptic technique      |
- 

43. Which of the following is added as antioxidant in pharmaceutical dosage forms ?

- |                         |                      |
|-------------------------|----------------------|
| (1) Sorbitan monooleate | (2) Ascorbic acid    |
| (3) Methyl cellulose    | (4) Sodium saccharin |
- 

44. Shelf life of a pharmaceutical product is computed by

- |                      |                            |
|----------------------|----------------------------|
| (1) Ficks laws       | (2) Arrhenius equation     |
| (3) Higuchi equation | (4) Noyes Whitney equation |
- 

45. As per Indian Pharmacopoeia MacConkey agar has

- |                     |                        |
|---------------------|------------------------|
| (1) malachite green | (2) bromocresol purple |
| (3) neutral red     | (4) brilliant green    |
- 

46. Bioavailability and pharmacokinetic data either is or may be required when pharmaceutical companies submit

- I. New drug application
- II. Abbreviated new drug application
- III. Supplemental application

- |                   |                   |
|-------------------|-------------------|
| (1) I, II and III | (2) I and II only |
| (3) III only      | (4) I only        |
- 

47. Gastric emptying is slowed by all of the following, except

- |                       |                      |
|-----------------------|----------------------|
| (1) fatty food        | (2) emotional stress |
| (3) vigorous exercise | (4) hunger           |
- 

SPACE FOR ROUGH WORK

P.T.O.

48. A suspension is **not** a suitable dosage form for

- |                               |                            |
|-------------------------------|----------------------------|
| (1) intra muscular injection  | (2) intra venous injection |
| (3) intra articular injection | (4) intra dermal injection |
- 

49. Hypodermic needle sizes are expressed by gauge numbers. The gauge number refers to the

- (1) bevel size
  - (2) internal diameter of the cannula
  - (3) external diameter of the cannula
  - (4) size of the lumen opening
- 

50. 330 mg of aspirin is to be filled in hard gelatin capsules. Which is the appropriate capsule size ?

- |       |        |
|-------|--------|
| (1) 1 | (2) 2  |
| (3) 0 | (4) 00 |
- 

51. The phase inversion temperature (PIT) of a surfactant is one at which

- (1) surfactant forms micelles
  - (2) surfactant melts
  - (3) hydrophilic and lipophilic properties of surfactant are balanced
  - (4) surfactant undergoes inversion
- 

52. Irrespective of the source, principle constituent of absorbable catgut is

- |               |             |
|---------------|-------------|
| (1) Cellulose | (2) Fibrin  |
| (3) Collagen  | (4) Gelatin |
- 

53. Idiosyncratic reactions to drugs are

- (1) seen only in certain individuals
  - (2) unrelated with dose of drug administered
  - (3) often without explanation of cause
  - (4) All of the above
- 

**SPACE FOR ROUGH WORK**

54. What is the shelf life of eye drops immediately after opening ?
- |             |             |
|-------------|-------------|
| (1) 30 days | (2) 90 days |
| (3) 14 days | (4) 7 days  |
- 
55. In the hospitals, the records regarding purchase and distribution of 'controlled substances' are to be kept in prescribed format by
- |                  |                      |
|------------------|----------------------|
| (1) Store keeper | (2) Pharmacist       |
| (3) Ward nurse   | (4) All of the above |
- 
56. In the test for sterility 'Fluid Thioglycolate Medium' is used for detection of
- |                                    |                                  |
|------------------------------------|----------------------------------|
| (1) Aerobic bacteria               | (2) Fungi                        |
| (3) Aerobic and anaerobic bacteria | (4) Fungi and anaerobic bacteria |
- 
57. The words "It is dangerous to take this preparation except under medical supervision" can be found on label of drugs belonging to
- |                |                |
|----------------|----------------|
| (1) Schedule X | (2) Schedule H |
| (3) Schedule C | (4) Schedule G |
- 
58. Excipients that increase the aqueous solubility of poorly soluble drug are
- |                        |                       |
|------------------------|-----------------------|
| (1) Wetting agents     | (2) Solubilizers      |
| (3) Stabilizing agents | (4) Dispersing agents |
- 
59. What should be the air velocity in a horizontal laminar flow work area ?
- |                |                |
|----------------|----------------|
| (1) 50 ft/min  | (2) 10 ft/min  |
| (3) 200 ft/min | (4) 100 ft/min |
- 
60. How many grams of sodium chloride should be used in the preparation of 250 ml of Isotonic Dextrose and Saline solution containing 2.5% w/v of anhydrous dextrose ?
- |             |               |
|-------------|---------------|
| (1) 4.5 gms | (2) 1.125 gms |
| (3) 2.5 gms | (4) 0.9 gms   |
- 

SPACE FOR ROUGH WORK

P.T.O.

61. Which of the following can aggravate pain in Prinzmetal variant angina ?

- |                      |                                 |
|----------------------|---------------------------------|
| (1) Vasodilators     | (2) Calcium channel antagonists |
| (3) $\beta$ blockers | (4) None of the above           |
- 

62. Antihypertensive found safer during pregnancy is

- |               |                 |
|---------------|-----------------|
| (1) Reserpine | (2) Propranolol |
| (3) Losartan  | (4) Hydralazine |
- 

63. Hypolipidemic drug which produces its effect by inhibiting VLDL production is

- |                 |                    |
|-----------------|--------------------|
| (1) Lovastatin  | (2) Nicotinic acid |
| (3) Gemfibrozil | (4) Fluvastatin    |
- 

64. Dimercaprol is a therapeutic antidote against

- |                            |                         |
|----------------------------|-------------------------|
| (1) Heavy metals poisoning | (2) Opiate poisoning    |
| (3) Salicylate poisoning   | (4) Pesticide poisoning |
- 

65. Which measure is **not** used in methanol poisoning ?

- |                            |                                 |
|----------------------------|---------------------------------|
| (1) Folate therapy         | (2) Sodium bicarbonate infusion |
| (3) Ethanol administration | (4) Disulfiram therapy          |
- 

66. The drug used in the first line therapy of tuberculosis is

- |                 |                 |
|-----------------|-----------------|
| (1) Ethionamide | (2) Ethambutol  |
| (3) Cycloserine | (4) Clofazimine |
- 

67. The reactive electrophilic intermediate of Acetaminophen which produces hepatotoxicity is

- |                                     |
|-------------------------------------|
| (1) N-acetyl-para-benzoquinonimine  |
| (2) N-acetyl-ortho-benzoquinonimine |
| (3) N-methyl-ortho-benzoquinonimine |
| (4) N-methyl-para-benzoquinonimine  |
- 

SPACE FOR ROUGH WORK

68. The drug whose side effect has been exploited in the prophylactic treatment of thromboembolic disorders is

- |                  |                |
|------------------|----------------|
| (1) Indomethacin | (2) Rofecoxib  |
| (3) Aspirin      | (4) Nimesulide |
- 

69. Isoniazid produces antimycobacterial action by

- (1) inhibiting DNA dependent RNA polymerase
  - (2) preventing bacterial protein synthesis
  - (3) inhibiting synthesis of mycolic acids
  - (4) inhibiting mycobacterial arabinosyl transferases
- 

70. Anti-HIV drug Saquinavir is

- (1) protease activator
  - (2) nucleoside reverse transcriptase inhibitor
  - (3) protease inhibitor
  - (4) non-nucleoside reverse transcriptase inhibitor
- 

71. Human immunodeficiency virus can be transmitted by the following routes :

- |                              |                        |
|------------------------------|------------------------|
| (1) Blood transfusion        | (2) Placental transfer |
| (3) Option (1) and (2) above | (4) None of the above  |
- 

72. Sucralfate is used in the treatment of

- |                  |             |
|------------------|-------------|
| (1) Hypertension | (2) Allergy |
| (3) Diabetes     | (4) Ulcers  |
- 

73. Which of the following is systemic antacid ?

- |                        |                         |
|------------------------|-------------------------|
| (1) Sodium hydroxide   | (2) Aluminium hydroxide |
| (3) Sodium bicarbonate | (4) Magnesium salts     |
- 

SPACE FOR ROUGH WORK

P.T.O.

74. Cephalosporins produce their antibacterial activity by interfering with
- |                                 |                                     |
|---------------------------------|-------------------------------------|
| (1) Cell wall synthesis         | (2) Cell membrane functions         |
| (3) Ribosomal protein synthesis | (4) Intermediary metabolic pathways |
- 
75. The non-sedating antihistaminic is
- |                 |                       |
|-----------------|-----------------------|
| (1) Terfenadine | (2) Diphenylhydrazine |
| (3) Meclizine   | (4) Mepyramine        |
- 
76. Which of the following is a competitive antagonist of H<sub>2</sub> receptors ?
- |                      |                      |
|----------------------|----------------------|
| (1) Chlorpheniramine | (2) Ranitidine       |
| (3) Promethazine     | (4) All of the above |
- 
77. Which of the following agents is **not** a pesticide ?
- |                           |                 |
|---------------------------|-----------------|
| (1) Organophosphates      | (2) Pyrethroids |
| (3) Aromatic hydrocarbons | (4) Rotenone    |
- 
78. Trazodone is used as
- |                    |                  |
|--------------------|------------------|
| (1) Antidepressant | (2) Antidiabetic |
| (3) Antiulcer      | (4) Cardiotonic  |
- 
79. Shock, an acute cardiovascular syndrome, is associated with
- |                        |                      |
|------------------------|----------------------|
| (1) Hypotension        | (2) Oliguria         |
| (3) Metabolic acidosis | (4) All of the above |
- 
80.  $\beta$  blockers must be used with great caution in diabetic patients because
- |   |
|---|
| (1) they mask the symptoms of hypoglycemia      |
| (2) they prevent the correction of hypoglycemia |
| (3) Option (1) and (2) above                    |
| (4) None of the above                           |
- 

SPACE FOR ROUGH WORK



81. Which of the following drugs improves exercise tolerance in patients with effort induced angina ?

- |                              |                       |
|------------------------------|-----------------------|
| (1) Nicardipine              | (2) Metoprolol        |
| (3) Option (1) and (2) above | (4) None of the above |
- 

82. Nephrotoxicity is common with

- |                              |                       |
|------------------------------|-----------------------|
| (1) Cyclosporine             | (2) Gentamicin        |
| (3) Option (1) and (2) above | (4) None of the above |
- 

83. Which of the following drugs helps reverse the muscle paralysis following cobra bite ?

- |                              |                  |
|------------------------------|------------------|
| (1) Pancuronium              | (2) d-tubocurare |
| (3) Option (1) and (2) above | (4) Edrophonium  |
- 

84. Which of the following category of drugs is **not** used in the treatment of hypertension ?

- |                                  |                                  |
|----------------------------------|----------------------------------|
| (1) Catecholamines               | (2) $\beta$ receptor antagonists |
| (3) Potassium channel activators | (4) Diuretics                    |
- 

85.  $\beta$  lactamase resistant penicillin is

- |                |                  |
|----------------|------------------|
| (1) Ampicillin | (2) Piperacillin |
| (3) Nafcillin  | (4) Ticarcillin  |
- 

86. Which of the following drugs is employed as a 'Cardiotonic' in the treatment of congestive cardiac failure ?

- |                    |                 |
|--------------------|-----------------|
| (1) Furosemide     | (2) Amphetamine |
| (3) Spironolactone | (4) Digoxin     |
- 

SPACE FOR ROUGH WORK

P.T.O.

87. The hallmark of HIV infection is

- |  |  |
|--|--|
| (1) increase CD <sub>3</sub> lymphocytes | (2) increase CD <sub>4</sub> lymphocytes |
| (3) decrease CD <sub>4</sub> lymphocytes | (4) decrease CD <sub>3</sub> lymphocytes |
- 

88. Diuretic which inhibits carbonic anhydrase enzyme is

- |                         |                   |
|-------------------------|-------------------|
| (1) Hydrochlorothiazide | (2) Furosemide    |
| (3) Spironolactone      | (4) Acetazolamide |
- 

89. Which of the following is a narrow spectrum antibiotic ?

- |                     |                  |
|---------------------|------------------|
| (1) Tetracycline    | (2) Ampicillin   |
| (3) Chloramphenicol | (4) Penicillin G |
- 

90. The specific antidote used in morphine toxicity

- |                |                   |
|----------------|-------------------|
| (1) Picrotoxin | (2) Penicillamine |
| (3) Naloxone   | (4) Nimesulide    |
- 

91. The sub-class of pesticide Strychnine is

- |                 |                 |
|-----------------|-----------------|
| (1) Rodenticide | (2) Insecticide |
| (3) Herbicide   | (4) Fungicide   |
- 

92. What is the ratio of Sulfamethoxazole and Trimethoprim in Co-trimoxazole ?

- |            |             |
|------------|-------------|
| (1) 1 : 20 | (2) 20 : 1  |
| (3) 1 : 1  | (4) 20 : 20 |
- 

93. Which of the following is a fourth generation Cephalosporin ?

- |              |                |
|--------------|----------------|
| (1) Cefaclor | (2) Cefotaxime |
| (3) Cefepime | (4) Cephalexin |
- 

SPACE FOR ROUGH WORK

94. A drug used in topical therapy of burns

- |                    |                    |
|--------------------|--------------------|
| (1) Mafenide       | (2) Salicylic acid |
| (3) Co-trimoxazole | (4) Acyclovir      |
- 

95. Which of the following is **not** a toxic effect of salicylates ?

- |              |                          |
|--------------|--------------------------|
| (1) Tinnitus | (2) Gastric bleeding     |
| (3) Edema    | (4) Postural hypotension |
- 

96. Which of the following antibiotics does **not** act on the cell membrane ?

- |                    |                 |
|--------------------|-----------------|
| (1) Amphotericin B | (2) Nystatin    |
| (3) Polymyxins     | (4) Lincomycins |
- 

97. Plumbism is associated with toxicity due to

- |             |                  |
|-------------|------------------|
| (1) Lead    | (2) Mercury      |
| (3) Arsenic | (4) Barbiturates |
- 

98. Concurrent ingestion of antacid with tetracycline

- (1) forms highly absorbable complex
  - (2) forms poorly absorbable complex
  - (3) enhances metabolism of tetracycline
  - (4) has no effect on tetracycline
- 

99. Non-peptide orally active angiotension-1 receptor antagonist is

- |              |                |
|--------------|----------------|
| (1) Saralsin | (2) Lisinopril |
| (3) Losartan | (4) Enalapril  |
- 

100. The confirmatory test for positive ELISA used the screening of HIV infection is

- |                   |                  |
|-------------------|------------------|
| (1) PCR           | (2) RT-PCR       |
| (3) Northern blot | (4) Western blot |
- 

SPACE FOR ROUGH WORK

## सूचना - (पृष्ठ 1 वरून पुढे....)

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या “परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82” यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतः बरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षा कक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

## नमुना प्रश्न

Pick out the correct word to fill in the blank :

**Q. No. 201.** The Catch varies inversely with the size of the

- (1) nozzle (2) droplet (3) obstruction (4) sprayer

ह्या प्रश्नाचे योग्य उत्तर “(3) obstruction” असे आहे. त्यामुळे या प्रश्नाचे उत्तर “(3)” होईल. यास्तव खालीलप्रमाणे प्र.क्र. 201 समोरील उत्तर-क्रमांक “③” हे वर्तुळ पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्रश्न क्र. 201. ① ② ● ④

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK