

Test Booklet Serial No.	101248
Test Booklet Code	BCA

Candidate's Roll No.							
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Time: 2 hours

Maximum Marks: 100

Read the following instructions carefully before you begin to answer the questions.  
This Booklet contains questions in English only

**WRITTEN TEST FOR THE POST OF PHARMACIST – AUGUST 2014**

**INSTRUCTIONS TO CANDIDATES:**

1. Before you start please check whether:
  - a. **The Test Booklet Serial No. and the OMR Answer Sheet Serial No. are same.**
  - b. All the pages in the question book are in order, and intact; and
  - c. Questions 1 to 100 are available.

Note: If you find any defect/s in the above mentioned points in this Test Booklet/OMR Sheet, you must inform the Invigilator and get both of them replaced with another set immediately.

2. Use only the **BLACK/BLUE BALL POINT PEN** that is provided to you to write/mark in the answer sheet.
3. Write your Roll Number in the box above.
4. This Booklet contains 100 questions
5. All the questions carry equal marks. Each Correct response will be given 1 (One) mark.
6. Negative marks will be there for wrong answers. 0.25 marks will be deducted for each wrong answer.
7. You have to use only the OMR Answer Sheet which is given along with this Question Booklet for answering the questions. You must complete the details in the prescribed places in the OMR Answer Sheet failing which your OMR Answer Sheet will not be evaluated.
8. The questions are of multiple-choice type. **FOUR** suggested answers **A, B, C** and **D** follow each question. Only one of them is the most appropriate. Select the most appropriate answer and **DARKEN THE CORRESPONDING OVAL IN THE ANSWER SHEET.** For eg:
 

A	●	C	D
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9. **ONLY ONE** answer is to be darkened for each question. No correction is feasible as the marking is to be done with pen. Marking of wrong options as well as multiple markings will be treated as wrong and negative marks will be awarded accordingly.

10. As the Answer Sheet will be evaluated by a machine only, the marking of the answers by shading of the ovals may be done carefully.

12. Rough work **should not be done on the answer sheet or in the Question Booklet** other than in the 'Space for Rough Work' provided at the end of the Question Booklet.

13. Mobile phones, wireless communication devices or any other devises/equipments are completely banned within the examination halls/rooms. Candidates are advised not to bring any such devises/equipments into the examination hall/room even by switching them off as these will not be permitted inside the hall/room. The candidature of those candidates who do not comply with these instructions will be cancelled without further notice and they will not be allowed to appear in the written test.

14. This booklet should be **RETURNED INTACT** at the end of the examination failing which the candidature of the candidates will be cancelled without intimation and his/her Answer Sheet will not be evaluated.



## BCA

1. A patient weighs 148 lb, is to receive enoxaparin 1.5 mg/kg subcutaneously daily for 7 days. calculated the total daily dose is
  - a) 80 mg
  - b) 100 mg
  - c) 150 mg
  - d) 220 mg
  
2. Safe antiemetic drug used in morning sickness?
  - a) Diphenhydramine.
  - b) Meclizine
  - c) Promethazine
  - d) Dimenhydrinate
  
3. Local injection therapy for erectile deficiency may include
  - a) Sildenafil
  - b) Prazosin
  - c) Yohimbine
  - d) Alprostadil
  
4. QT prolongation occurs with
  - a) Flucloxacillin
  - b) Gatifloxacin
  - c) Gentamycin
  - d) Clindamycin
  
5. Which one of the following is ultrashort acting beta blocker ?
  - a) Pindolol
  - b) Esmolol
  - c) Sotalol
  - d) Propranolol
  
6. Which one of the following is effective in *Pneumocysti carinae* infection?
  - a) Ketoconazole
  - b) Metronidazole
  - c) Co-trimoxazole
  - d) Fluconazole
  
7. A solid or semisolid mass meant to be inserted into body orifice is called
  - a) Capsule
  - b) Tablet
  - c) Suppository
  - d) Enema

## BCA

8. One table spoon is equal to

- a) 15 ml
- b) 20 ml
- c) 5 ml
- d) 10 ml

9. 1mEq of KCl (Molecular weight 74.5g) is

- a) 37.25g
- b) 74.5g
- c) 74.5mg
- d) 149mg

10. How many grams of water are needed to make 150g of a 4% w/w solution of potassium acetate?

- a) 100
- b) 130
- c) 135
- d) 144

11. Water for injection is

- a) Sterile water with coloring agent
- b) Distilled water free from pyrogens
- c) Sterile water free from pyrogens
- d) Distilled water with coloring agent

12. In the prescription, the abbreviation S.O.S. indicates

- a) Before meals
- b) Need only
- c) After meals
- d) Suppository

13. Which of the following factors is associated with an increased risk of noncompliance in the elderly?

- a) Polypharmacy
- b) Hypertension
- c) Living with a spouse in an isolated environment
- d) Expensive medications

14. Which equation is used to predict the stability of a drug product at room temperature from experiments at accelerated temperatures?

- a) Stokes equation
- b) Young equation
- c) Arrhenius equation
- d) Michaelis–Menten equation

## BCA

15. The dispensing pharmacist usually blends potent powders with a large amount of diluent (powder) by

- a) Spatulation.
- b) Sifting.
- c) Trituration.
- d) Geometric dilution.

16. The adult dose of a drug is 250 mg. What would be the approximate dose for a 6-year-old child weighing 60 lb? (Use Young's Formula.)

- a) 60 mg
- b) 83 mg
- c) 100 mg
- d) 125 mg

17. All are safety techniques observed while dispensing the drugs  
Except

- a) Do not work on several prescriptions .
- b) Do not be pressured to rush.
- c) Do not consult the doctors
- d) Do not chat while dispensing

18. Idiosyncratic reactions, genetic /immunological allergic reactions are

- a) Type A Adverse reaction
- b) Type B Adverse reaction
- c) Type C Adverse reaction
- d) Type D Adverse reaction

19. All the drugs given below may require Therapeutic drug monitoring Except

- a) Digoxin
- b) Lithium
- c) Cyclosporin
- d) Adrenaline

20. Filgrastim is:

- a) Interleukin
- b) Granulocyte colony-stimulating factors
- c) Tumor necrosis factor
- d) All of the above

21. The branch of Pharmacology that study the inherited difference in drug response in the population/ethnic-groups is called

- a) Clinical Pharmacology
- b) Pharmacoeconomics
- c) Pharmacogenomics
- d) Ethnopharmacology

## BCA

22. Hydroalcoholic solutions for oral use containing sugar are called
- Syrups
  - Spirits
  - Tinctures
  - Elixirs
23. Creaming and coalescence may affect stability of
- Solutions
  - Suspensions
  - Emulsions
  - Syrups
24. OTC drugs means
- Drugs which need prescription for dispensing
  - Drugs which can be dispensed on the patient's demand
  - Drugs which are poison
  - Drugs which produce dependence
25. Auxiliary labels do NOT contain an information like
- Shake well
  - Keep in refrigerator
  - For external use only
  - Take 1 Tablet 4 times a day for 10 days
26. What % of sodium chloride will be required to make 1% atropine sulfate solution isotonic? (Sodium chloride equivalent of atropine sulfate is 0.12)
- 0.912%
  - 0.78%
  - 0.9%
  - 0.88%
27. L-dopa is a
- Antianaemic drug
  - Antiparkinsonism drug
  - Antiarrhythmic drug
  - Antianginal drug
28. More commonly used antitussive is
- Codeine
  - Dexamethasone
  - Bromhexine
  - Gentamicin
29. Metoclopramide is
- An antiemetic
  - An analgesic
  - An expectorant
  - Antipsychotic

## BCA

30. Diethylcarbamazine is used to treat
- Asthma
  - Epilepsy
  - Bilharziasis
  - Filariasis
31. Which of the following can cause hair growth on face in females?
- Cyclosporine
  - Tacrolimus
  - Prdnisolone
  - Azathioprine
32. While dispensing Tetracycline, Pharmacist should advise the patients NOT to take the drugs along with
- Calcium and Iron tablets
  - Antacids
  - Milk & dairy products
  - All the above
33. All the drugs are banned in Indian market Except
- Sibutramine
  - Mosapride
  - Phenyl Propanolamine
  - Rosiglitazone
34. Propranolol is contra-indicated in
- Epilepsy
  - Hyperthyroidism
  - Bronchial Asthma
  - Migraine
35. Patient taking MAO inhibitors are advised NOT to take \_\_\_\_\_ along with drug
- Caffeine
  - Cabbage
  - Coumarin
  - Cheese
36. Which of the following polyols should never be used as a sweetening agent because of its severe toxicity?
- Sorbitol
  - Glycerol
  - Propylene glycol
  - Ethylene glycol

## BCA

37. You are asked prepare 3% ointment but your pharmacy has only 5% and 1% ointment bases. Which one of the following combination you will make use?
- 40% of 5% +60% of 1%
  - 50% of 5% +50% of 1%
  - 60% of 1% + 40% of 5%
  - 70% of 1% +30% of 5%
- 38.What does biennial check of pharmacy means ?
- Once a year
  - Twice a year
  - Every two months
  - Every two years
- 39.Eplerenone is a
- Loop diuretic
  - Aldosterone antagonist
  - Calcium channel blocker
  - Cardioselective beta blocker
- 40.Which one of them is antidote for paracetamol poisoning ?
- Penicillamine
  - Phenacetin
  - Deferione
  - N acetyl cysteine
- 41.Impotence occurs with use of
- Cimetidine
  - Sucralfate
  - Loperamide
  - Ondansterone
- 42.Which of the following cytochrome is most abundantly seen in our body?
- 1A4
  - 2A6
  - 3A4
  - 2C6
- 43.Which one of the following drugs is to be avoided in diarrhea ?
- Beta receptor blocker
  - Alpha receptor blocker
  - H2 receptor antagonist
  - Muscarinic receptor antagonist

## BCA

44. Which of the following agents is useful in treating High serum levels of Ammonia?
- a) Glucose
  - b) Galactose
  - c) Lactulose
  - d) Sucrose
45. Which one of the ratios is the best indicator of Pharmacy's Profitability?
- a) Net profit to net sales
  - b) Net profit to net worth
  - c) Net profit to total asset
  - d) Net profit to inventory
46. Which of the following drugs is indicated as uterine relaxant for women in labor ?
- a) Ephedrine
  - b) Terbutaline
  - c) Isoetharine
  - d) Metaproterenol
47. Which one of the drugs is least likely to cause electrolyte imbalance ?
- a) Sodium bicarbonate
  - b) Potassium chloride
  - c) Aluminium hydroxide
  - d) Sodium chloride
48. Which one should carry a label "Do not Freeze" ?
- a) chlorpromazine syrup
  - b) Ampicillin syrup
  - c) Co trimoxazole suspension
  - d) cephalosporin suspension
49. Which one will show nonlinear pharmacokinetics ?
- a) Phenytoin
  - b) Lithium
  - c) Quinidine
  - d) Carbamazepine



## BCA

50. The antibacterial activity of phenol is increased by

- a) Rise in pH
- b) Rise in temperature
- c) Addition of vegetable oil
- d) Addition of ammonium compound

51. Early symptom of aspirin poisoning is

- a) Skin rash
- b) Fluid retention
- c) Throbbing headache
- d) Ringing in ears

52. Intestinal perforation in ulcerative colitis occurs with

- a) Metoclopramide
- b) Methyl cellulose
- c) Loperamide
- d) Propanthiline

53. How many millmoles of potassium are there in 500 mg of Potassium chloride ?

- a) 6.7
- b) 13.4
- c) 26.8
- d) 40.6

54. What is major contraindication for use of over the counter medications containing sympathomimetic drugs ?

- a) Bronchial asthma
- b) Gastric ulcer
- c) Hypertension
- d) Rheumatoid arthritis

BCA

55. Which antimalarial drug to be avoided in G6PDH deficiency ?

- a) Chloroquine
- b) Amodiaquine
- c) Primaquine
- d) Mefloquine

56. Cyproheptidine belongs to which group of drugs ?

- a) Antihistamines
- b) Antihypertensives
- c) Antiepileptics
- d) Antidepressants

57. Which one of the following drugs has anti-inflammatory action ?

- a) Codeine
- b) Pethidine
- c) Methadone
- d) Meloxicam

58. The antimicrobial action of cephalosporin is

- a) Inhibition of tyrosine kinase
- b) Inhibition of protein synthesis
- c) Inhibition of DNA synthesis
- d) Inhibition of cell wall synthesis

59. Which one of the following is pharmacological action of Histamine ?

- a) Constriction of capillaries
- b) Reduction of heart rate
- c) Gastric acid secretion
- d) Elevation of blood pressure

## BCA

60. All the following products used in the treatment of glaucoma are applied topically EXCEPT:

- a) Xalatan
- b) Diamox
- c) Trusopt
- d) Timoptol

61. All are not true regarding Terazosin except

- a) Constricts smooth muscle
- b) Is a selective beta-blocker
- c) Increases urinary flow rate
- d) Is contraindicated in prostate hyperplasia

62. Dipyridamole is an

- a) Antiplatelet drug
- b) Anti inflammatory drug
- c) Antihypertensive drug
- d) Antianginal drug

63. All the following combinations produce hazardous reaction except

- a) Ergotamine and zolmitriptan
- b) Warfarin and gliclazide
- c) Progesterone and clindamycin
- d) Captopril and spironolactone

64. In order to make a generic substitution, a pharmacist must do which of the following?

- a). Notify the patient of the substitution.
- b) Charge the same or lower price for the generic.
- c). Place the brand name on the label
- d). Obtain the physician's consent

## BCA

65. Which of the following requires the advisory label warning, "May cause drowsiness"?
- Tegasorb
  - Indapamide
  - Cyclobenzaprine
  - Modafinil
66. Which of the following statements demonstrates that a patient understands the risks associated with doxorubicin?
- "I should avoid in pregnancy."
  - "I may have blood in my urine."
  - "I need to drink a lot of water."
  - "I will have permanent hair loss."
67. A patient brings in a vial of cloudy regular insulin. Examination of the medication profile reveals simultaneous use of NPH and regular insulin. Which of the following is the MOST PROBABLE explanation for the cloudy appearance?
- The insulin has been improperly stored.
  - The insulin has expired.
  - The insulin has been contaminated.
  - The insulin is expected to be cloudy
68. Which of the following should be reported to the prescriber indicating an adverse drug reaction to montelukast?
- An increase in respiratory tract infections
  - An increased serum creatinine
  - A decrease in libido
  - A decreased serum albumin
69. Which one of the following oral medications should be administered with food?
- Atenolol
  - Saquinavir
  - Fluconazole
  - Levofloxacin

## BCA

70. A pharmacist calls the physician to report an increase in INR for a patient on warfarin protocol. Which one of the following drugs is MOST LIKELY to account for this observation?

- a). Cefotetan
- b). Ramipril
- c). Digoxin
- d) Pantoprazole

71. Which of the following equations may be useful to find out the plasma concentration of a drug?

- a)  $V_d \times P = C_p$
- b)  $P \times C_p = V_d$
- c)  $V_d = P/C_p$
- d)  $V_d = C_p/P$

72. Heparin is classified as:

- a) Oligosaccharide
- b) Monosaccharide
- c) Homopolysaccharide
- d) Heteropolysaccharide

73. The degradation of Penicillin G

*Procaine* is highest in:

- a) Tablet
- b) Elixir
- c) Solution
- d) Suspension

74. Sodium polystyrene sulfonate is found to lower Serum concentration of

- a) Sodium
- b) Potassium
- c) Aluminium
- d) Calcium

75. Which of the following is an HMG-COA inhibitor?

- a) Niacin
- b) Gemfibrozil
- c) Cholestyramine
- d) Lovastatin

## BCA

76. Which of the following drugs is known as an *inodilator* ?

- a) Amphetamine
- b) Amphotericin
- c) Ambrinone
- d) Allopurinol

77. Which of the following can be used for the treatment of Methotrexate overdose ?

- a) Leucovorin
- b) Voriconazole
- c) Pyridoxine
- d) Cyclosporine

78. Which of the following drugs should not be used with Fluoxetine

- a) Promethazine
- b) Carbamazepine
- c) Bromocryptine
- d) Tranylcypromine

79. Heparin 25,000 U in 250 mL D5W is running through an administration set 60 drops/mL. The flow rate required to deliver a heparin dose of 15 U/min is:

- a) 0.9 drops/min
- b) 9.0 drops/min
- c) 54.0/drops/min
- d) 90.0 drops/min

80. The appearance of crystals in mannitol injection indicate that the product:

- a) Exposure to cold
- b) Settled while shipping
- c) Contains impurities
- d) Formulated using sterile saline

81. Artificial tears may contain

- a) Gentamicin
- b) Atropine
- c) Phenylephrine
- d) Carboxymethyl cellulose

## BCA

82. In DTP vaccine, P corresponds to

- a) Pneumonia
- b) Whooping cough
- c) Poliomyelitis
- d) Yellow fever

83. Nasal spray should always be administered with the patient in an up-right position to

- a) Avoid systemic absorption
- b) Enhance systemic absorption
- c) Avoid local action in nose
- d) Avoid first pass effect

84. Purified water of IP grade can NOT be obtained by

- a) Filtration
- b) Distillation
- c) Ion exchange
- d) Reverse osmosis

85. To avoid expiry of drugs in store following procedure should be followed

- a) First in first out
- b) First in last out
- c) Early expiry first out
- d) Late expiry first out

86. Lead period for getting a supply in store is

- a) Time required to get the stock from the date of order
- b) Time required to get the stock from stock falls reorder level
- c) Time required to get the stock from the next alternate supplier
- d) Half of the shelf life of the drugs ordered or in stock

87. The following are drug therapy problems except

- a) An adverse effect from a medication.
- b) Symptoms caused by undertreatment.
- c) A drug-drug interaction.
- d) An undiagnosed condition.

88. Which of the following in the vanishing cream is used for its emollient effect

- a) Stearic acid
- b) KOH
- c) Glycerin
- d) Cetyl alcohol

## BCA

89. If the product has been substituted wholly or partially by another drug, it is known as
- Spurious drug
  - Adulterated drug
  - Misbranded drug
  - Poisonous drug
90. Loss of taste sensation is side effect of following antihypertensive drug
- Clonidine
  - Captopril
  - Verapamil
  - Prazocin
91. Which preservative is used in adrenalin injection
- Sodium bisulfate
  - Mercuric nitrate
  - Chloroform
  - Alcohol
92. In amendments to the Drugs and Cosmetics Act 1940, How many drugs are considered in the restricted category?
- 44
  - 45
  - 46
  - 47
93. Pregabalin is indicated for the treatment of
- Hyperthyroidism
  - Glaucoma
  - Diabetic Neuropathic pain
  - Migraine
94. Simethicone is
- Laxative
  - Antiflatulent
  - Antidiarrheal
  - Antacids
95. Suspensions should never be administered by which of the routes?
- Intradermal
  - Intravenous
  - Subcutaneous
  - Intramuscular



## BCA

96. Which of the following may not be used as an additive in preparing parenteral products?
- Buffering agents
  - Antibacterial preservatives
  - Coloring agents
  - Antioxidants
97. License from excise department of the state is required to stock all the following except
- Rectified spirit
  - Morphine
  - Pethidine
  - Phenobarbitone
98. Tablet coating which resist dissolution in gastric fluid but disintegrates in intestine is
- Film coated
  - Sugar coated
  - Enteric coated
  - Dry coat
99. The antilepra drug is
- Tetracycline
  - Rifampicin
  - Ampicilin
  - clindamycin
100. Chlorpheniramine is
- Local anaesthetic
  - Anticonvulsant
  - Antifilarial
  - Antihistamine