

# Examination For Primary Health Care Training Module July 2017

## Subject – Pharmacology

Total duration – 2 hours

Maximum marks – 100

Passing marks – 75

### Note:

1. Total 110 multiple choice questions are provided out of which any **80 questions** will have to be answered. Each question carries **one mark**.
2. **No provision of negative marking.**
3. Total 07 short answer questions (to be answered maximum in 75 words) out of which any **04 questions** will have to be answered. Each question carries **5 marks**.
4. This Question Paper cum Answer sheet contains printed pages from 01 to 22

### Part A. Answer the multiple choice questions. (Attempt Any 80) (80 X 1 =80 Marks)

#### 1. What does “pharmacokinetics” include?

- A. Complications of drug therapy
- B. Drug biotransformation in the organism
- C. Influence of drugs on metabolism processes
- D. Influence of drugs on genes

B

#### 2. What does the term “bioavailability” mean?

- A. Plasma protein binding degree of substance
- B. Permeability through the brain-blood barrier
- C. Fraction of an uncharged drug reaching the systemic circulation following any route administration
- D. Amount of a substance in urine relative to the initial doze

C

#### 3. Biological barriers include all except:

- A. Renal Tubules
- B. Cell Membranes
- C. Capillary Walls
- D. Placenta

A

#### 4. Biotransformation of a medicinal substance results in:

- A. Faster urinary excretion
- B. Slower urinary excretion
- C. Easier distribution in organism
- D. Higher binding to membranes

A & B

#### 5. Conjugation is:

- A. Process of drug reduction by special enzymes
- B. Process of drug oxidation by special oxidases
- C. Coupling of a drug with an endogenous substrate
- D. Solubilization in lipids

C

**6. Pharmacodynamics involves the study of following?**

- A. Mechanisms of drug action
- B. Biotransformation of drugs in the organism
- C. Distribution of drugs in the organism
- D. Excretion of drug from the organism

A

**7. What does "affinity" mean?**

- A. A measure of how tightly a drug binds to plasma proteins
- B. A measure of how tightly a drug binds to a receptor
- C. A measure of inhibiting potency of a drug
- D. A measure of bioavailability of a drug

B

**8. A competitive antagonist is a substance that:**

- A. Interacts with receptors and produces submaximal effect
- B. Binds to the same receptor site and progressively inhibits the agonist response
- C. Binds to the nonspecific sites of tissue
- D. Binds to one receptor subtype as an agonist and to another as an antagonist

B

**9. 100% bioavailability is present in**

- A. Iv route
- B. Sublingual
- C. Sub cutaneous route
- D. Intramuscular

A

**10. Ethambutol has the following unwanted effect:**

- A. Cardiotoxicity
- B. Immunotoxicity
- C. Color blindness
- D. Ototoxicity

C

**11. Which of the following unwanted effect of isoniazid?**

- A. Cardiotoxicity
- B. Peripheral neuropathy
- C. Loss of hair
- D. Immunotoxicity

B

**12. The most likely complication of prolonged use of nasal decongestant drops is:**

- A. Atrophic rhinitis
- B. Hypertrophy of nasal mucosa
- C. Naso-pharyngeal moniliasis
- D. Blockage of eustachian tubes

A

**13. Mechanism of action of pralidoxime is:**

- A. Stimulation of ach receptors
- B. Inhibition of breakdown of ach
- C. Blockade of ach receptors
- D. Reactivation of ache enzyme

D

14. Which is beta antagonist?

- A. Salbutamol
- B. Propranolol
- C. Salmeterol
- D. Albuterol

B

15. Which of the following drugs is used for organophosphorous poisoning ?

- A. Atropine
- B. Pilocarpine
- C. Propranolol
- D. Edrophonium

A

16. Which of the following drugs is used for benign prostatic hyperplasia (bph) is:

- A. Atropine
- B. Tamsulosin
- C. Edrophonium
- D. Propranolol

B

17. Which of the following drugs is used for myasthenia gravis

- A. Neostigmine
- B. Physostigmine
- C. Salbutamol
- D. propranolol

A

18. Which of the following drugs is used for acute congestive glaucoma

- A. Atropine
- B. Mannitol
- C. Tropicamide
- D. Albuterol

B

19. Beta blockers are contraindicated in:

- A. Decompensated chf
- B. Asthma
- C. Variant angina
- D. All of the above

D

20. A bronchial smooth muscle contains:

- A. Alfa1 receptor
- B. Alfa2 receptor
- C. Beta 1 receptor
- D. Beta 2 receptor

D

21. Propranolol is used in the treatment all of the following diseases except:

- A. Cardiovascular diseases
- B. Hyperthyroidism
- C. Migraine headache
- D. Bronchial asthma

D

**22. Which of the following cholinomimetics is commonly used in the treatment of glaucoma?**

- A. Pilocarpine
- B. Lobeline
- C. Acetylcholine
- D. Neostigmine

A

**23. Which of the following cholinomimetics is used in the treatment of atropine intoxication?**

- A. Neostigmine
- B. Carbachol
- C. Physostigmine
- D. Lobeline

C

**24. Choose the vasodilator which releases NO:**

- A. Nifedipine
- B. Hydralazine
- C. Minoxidil
- D. Sodium nitroprusside

D

**25. Which of the following agents is used as an inhalation drug in asthma?**

- A. Atropine
- B. Ipratropium
- C. Lobeline
- D. Homatropine

B

**26. Epinephrine is used in the treatment of all of the following disorders except:**

- A. Bronchospasm
- B. Anaphylactic shock
- C. Cardiac arrhythmias
- D. Open-angle glaucoma

C

**27. Local anesthetics produce:**

- A. Analgesia, amnesia, loss of consciousness
- B. Blocking pain sensation without loss of consciousness
- C. Alleviation of anxiety and pain with an altered level of consciousness
- D. A stupor or somnolent state

B

**28. Which of the following drug is local anesthetics ?**

- A. Penicillin
- B. Aspirin
- C. Lidocaine
- D. Salbutamol

C

**29. Which is a 2nd generation anti-histaminic agent?**

- A. Cetirizine
- B. Diphenhydramin
- C. Dimenhydrinate
- D. Promethazine

A

**30. Antihistaminic used in motion sickness is:**

- A. Cetirizine
- B. Meclizine
- C. Diphenhydramine
- D. Fexofenadine

B

**31. First generation anti-histaminics used in allergic rhinitis are:**

- A. Loratadine
- B. Fexofenadine
- C. Chlorpheniramine maleate
- D. Cetirizine.

C

**32. A highway truck driver has profuse rhinorrhoea and sneezing. Which amongst the following drugs would you prescribe him?**

- A. Pheniramine
- B. Promethazine
- C. Dimenhydrinate
- D. Fexofenadine

D

**33. Aspirin inhibits which of the following enzymes?**

- A. Lipoprotein lipase
- B. Lipoxygenase
- C. Cyclooxygenase
- D. Phospholipase

C

**34. Diclofenac sodium is not used for**

- A. Rheumatoid arthritis
- B. Osteoarthritis
- C. Ankylosing spondylitis
- D. Peptic ulcer

D

**35. Low doses aspirin is used for**

- A. Myocardial infarction
- B. Rheumatoid arthritis
- C. Ankylosing spondylitis
- D. Osteoarthritis

A

**36. Paracetamol is used for**

- A. Symptomatic relief of fever.
- B. Rheumatoid arthritis
- C. Ankylosing spondylitis
- D. Osteoarthritis

A

**37. Which among the following drug is used for relief of mild pain**

- A. Paracetamol
- B. Metformin
- C. Penicillin
- D. Gentamicin

A

**38. Which of the following is a bronchodilator?**

- A. Corticosteroids
- B. Salmeterol
- C. Ketotifen
- D. Sodium cromoglycate

B

**39. Dextromethorphan is an:**

- A. Antihistaminic
- B. Antitussive
- C. Expectorant
- D. Antiallergic

B

**40. The drug not used in acute asthma is:**

- A. Salbutamol
- B. Ipratropium
- C. Montelukast
- D. Hydrocortisone

C

**41. Which of the following anticholinergic agents is used especially as an anti-asthmatic?**

- A. Atropine
- B. Ipratropium
- C. Montelukast.
- D. Ketotifen

B

**42. The following drug is contraindicated in bronchial asthma:**

- A. Propranolol
- B. Ipratropium bromide
- C. Theophylline
- D. Ketotifen

A

**43. Aspirin is contraindicated in pregnant women near term because:**

- A. Labour may be delayed and prolonged
- B. Blood loss during delivery may be more
- C. Foetus may suffer premature closure of ductus arteriosus
- D. All of the above risks

D

**44. Which among the following drug used for diabetes?**

- A. Glimepiride
- B. Furosemide
- C. Aspirin
- D. Acyclovir

A

- 45. The common adverse reaction to insulin is:**
- A. Hypoglycaemia
  - B. Weight loss
  - C. Peptic ulcer
  - D. Angioedema
- 46. The primary route of administration of insulin is:**
- A. Oral
  - B. Subcutaneous
  - C. Rectal
  - D. Sublingual
- 47. Dexamethasone differs from prednisolone in that it is:**
- A. Longer acting
  - B. More potent
  - C. More selective
  - D. All of the above
- 48. Steroids are contraindicated in all, EXCEPT**
- A. Diabetes mellitus
  - B. Hypertension
  - C. Eczematous skin disease
  - D. Peptic ulcer disease
- 49. In which of the following disease is corticosteroids indicated?**
- A. Osteoporosis
  - B. Peptic ulcer
  - C. Collagen vascular diseases
  - D. Tuberculosis
- 50. Which of the following drug is a SERM useful for treatment of osteoporosis?**
- A. Raloxifene
  - B. Bisphosphonate
  - C. Strontium
  - D. Estradiol
- 51. Oral contraceptives are not given with:**
- A. Streptomycin
  - B. Rifampicin
  - C. Pyrazinamide
  - D. Ethambutol
- 52. Oral contraceptives is -**
- A. Estrogen + progesterone
  - B. Norplant
  - C. DMPA
  - D. Ethambutol

**53. Emergency contraceptive drugs are:**

- A. Pyrazinamide
- B. Norplant
- C. Mifepristone
- D. DMPA

C

**54. Which of the following is not an indication for oxytocin:**

- A. Spontaneous premature labour
- B. Post partum haemorrhage
- C. Uterine inertia
- D. Breast engorgement due to inefficient milk ejection reflex

A

**55. Methyl ergometrine is used for:**

- A. Spontaneous premature labour
- B. Post partum haemorrhage
- C. Uterine inertia
- D. Breast engorgement due to inefficient milk ejection Reflex

B

**56. Alpha methyl dopa is primarily used for:**

- A. Pregnancy induced hypertension
- B. Renovascular hypertension
- C. First line agent in hypertension
- D. Refractory hypertension

A

**57. Which drug should not be given in pregnancy?**

- A. Labetalol
- B. ACE inhibitors
- C. Hydralazine
- D. Methyl dopa

B

**58. Which of the following drug is anti hypertensive?**

- A. atenolol
- B. Atropine
- C. Adrenaline
- D. Dopamine

A

**59. Angiotensin II causes all except:**

- A. Stimulates release of ADH
- B. Increases thirst
- C. Vasodilation
- D. Stimulates aldosterone release

C

**60. Which one of the following is not an adverse effect of ACE inhibitors?**

- A. Cough
- B. Hypokalemia
- C. Angioneurotic edema
- D. Skin rash

B



**61. Which one of the following is not an indication of Enalapril ?**

- A. Hypertension
- B. Acute myocardial infarction
- C. Congestive cardiac failure -
- D. Asthma

D

**62. Loop diuretics acts on:**

- A. PCT
- B. DCT
- C. Thick ascending limb of loop of Henle
- D. Collecting duct

C

**63. Which of the following drug is loop diuretic**

- A. Furosemide
- B. Spironolactone
- C. Hydrochlorothiazide
- D. Acetazolamide

A

**64. Erythropoietin is mainly produced in:**

- A. Liver
- B. Kidney
- C. Intestine
- D. Bone

B

**65. Indication for intramuscular iron therapy is:**

- A. Pregnancy
- B. Postpartum period
- C. Emergency surgery
- D. Oral iron intolerance

D

**66. Drug not used in H. pylori is**

- A. Metronidazole
- B. Omeprazole
- C. Mosapride
- D. Amoxicillin

C

**67. Which of the following drug is proton pump inhibitor?**

- A. Ranitidine
- B. Famotidine
- C. Omeprazole
- D. Amoxicillin

C

**68. Which of the following drug is H2 BLOCKER ?**

- A. Ranitidine
- B. Metronidazole
- C. Omeprazole

A

D. Amoxicillin

**69. Which of the following is the drug of choice for treatment of peptic ulcer disease?**

- A. Omeprazole
- B. Pirenzepine
- C. Ranitidine
- D. Sucralfate

A

**70. Which of the following drugs is not used for motion sickness:**

- A. Metoclopramide
- B. Cyclizine
- C. Cinnarizine
- D. Scopolamine

A

**71. In case of hill journey, antimotion sickness drugs are best administered at:**

- A. Twelve hours before commencing journey
- B. One hour before commencing journey
- C. Immediately after commencing journey
- D. At the first feeling of motion sickness

B

**72. Apart from diarrhea, oral rehydration solution has been employed in:**

- A. Burn cases
- B. Heat stroke
- C. both( a) and (b)
- D. Severe vomiting

C

**73. Bisacodyl is:**

- A. Bulk forming
- B. Stool softner
- C. Stimulant purgative
- D. Osmotic purgative

C

**74. Best for treatment of irritable bowel syndrome with spastic colon is:**

- A. Liquid parafin
- B. Senna
- C. Bisacodyl
- D. Dietary fibers

D

**75. Ondansetron is effective in the following type of vomiting:**

- A. Cisplatin induced
- B. Radiotherapy induced
- C. Postoperative
- D. All of the above

D

**76. Drug of choice for syphilis in a pregnant lady is:**

- A. Penicillin
- B. Azithromycin
- C. Tetracycline
- D. Ceftriaxone

A

**77. Antimicrobial agent acting by inhibition of cell wall synthesis is:**

- A. Erythromycin
- B. Tetracycline
- C. Lomefloxacin
- D. Cefepime

D

**78. Mechanism of action of fluoroquinolones is:**

- A. Inhibits cell wall synthesis
- B. Inhibits protein synthesis
- C. Inhibits DNA gyrase
- D. Interferes with intermediary metabolism

C

**79. Eye drops of which sulphonamide is used clinically?**

- A. Sulfacetamide
- B. Sulfamethoxazole
- C. Sulfapyrazone
- D. All

A

**80. Drug of choice for prophylaxis of diphtheria is:**

- A. Tetracycline
- B. Erythromycin
- C. Ciprofloxacin
- D. Amikacin

B

**81. Drug of choice for chlamydial infection in pregnancy is:**

- A. Doxycycline
- B. Tetracycline
- C. Erythromycin
- D. Ciprofloxacin

C

**82. Red man syndrome occurs with:**

- A. Clindamycin
- B. Teicoplanin
- C. Vancomycin
- D. Polymyxin

C

**83. Drug of choice for plague is:**

- A. Erythromycin
- B. Tetracyclines
- C. Ampicillin
- D. Cotrimoxazole

B

**84. Nephrotoxicity is seen with:**

- A. Doxycycline
- B. Aminoglycosides
- C. Erythromycin
- D. Rifampicin

B

**85. Which does not cause pseudomembranous enterocolitis?**

- A. Vancomycin
- B. Levofloxacin
- C. Clindamycin
- D. Ceftazidime

A

**86. All of the following are beta lactamase inhibitors except:**

- A. Clavulanic acid
- B. Sulbactam
- C. Tazobactam
- D. Aztreonam

D

**87. What does the term "antibiotics" mean:**

- A. Non-organic or synthetic substances that selectively kill or inhibit the growth of other microorganisms
- B. Substances produced by some microorganisms and their synthetic analogues that selectively kill or inhibit the growth of another microorganisms
- C. Substances produced by some microorganisms and their synthetic analogues that inhibit the growth of organism cells
- D. Synthetic analogues of natural substances that kill protozoa and helminthes

B

**88. Isoniazid has following unwanted effect:**

- A. Cardiotoxicity
- B. Peripheral neuropathy
- C. Loss of hair
- D. Immunotoxicity

B

**89. Ethambutol has the following unwanted effect:**

- A. Cardiotoxicity
- B. Immunotoxicity
- C. Retrobulbar neuritis with red-green color blindness
- D. Hepatotoxicity

C

**90. Ondansetron is a potent .**

- A. antiemetic
- B. anxiolytic
- C. analgesic
- D. antidepressant

A

**91. Drug of choice of enteric fever**

- A. Gentamycin
- B. doxycycline
- C. Ceftriaxone
- D. Chloroquine

C

**92. Broad spectrum antihelminthic is:**

- A. Albendazole
- B. Metronidazole
- C. Praziquantal
- D. Quinine

A

**93. Drug of choice for burn dressing?**

- A. Silver sulphadiazine
- B. Diclofenac
- C. Povidone iodine
- D. Chlorhexidine

A

**94. Drug of choice of LVF?**

- A. Metformin
- B. Insulin
- C. Aspirin
- D. Furosmide

D

**95. Which of the following vaccine is used for after dog bite?**

- A. Hepatitis A vaccine
- B. Rabies vaccine
- C. Influenza vaccine
- D. Typhoid

B

**96. . Which among the following vaccine is given for tuberculosis?**

- A. BCG
- B. Oral polio
- C. Hepatitis B
- D. MMR

A

**97. Tick the drug for cestodosis (tapeworm invasion) treatment:**

- A. Piperazine
- B. Praziquantel
- C. Pyrantel
- D. Ivermectin

B

**98. Which among the following drug is antifungal?**

- A. Clotrimazole
- B. Diclofenac
- C. Furosemide
- D. Ampicillin

A

**99. Drug used in septic shock**

- A. Dopamine
- B. Propranolol
- C. Captopril
- D. Methyldopa

A

**100. Which of the following vitamin deficiency can cause scurvy?**

- A. Vitamin D
- B. Vitamin E
- C. Vitamin A
- D. Vitamin C

D

**101. The primary site of action of thiazide diuretics is:**

- A. Proximal tubule
- B. Ascending limb of loop of Henle
- C. Cortical diluting segment
- D. Collecting ducts

C

**102. Tick the antimycobacterial drug belonging to first-line agents:**

- A. PAS
- B. Rifampicin
- C. Kanamycin
- D. pyridoxine

B

**103. Tick the antimalarial drug having a gametocidal effect:**

- A. Chloroquine
- B. Primaquine
- C. Doxycycline
- D. Sulfonamides

B

**104. Indicate the drug which increases absorption of iron from intestine:**

- A. Cyanocobalamin
- B. Folic acid
- C. Ascorbic acid
- D. Erythropoetin

C

**105. Pernicious anemia is developed due to deficiency of:**

- A. Erythropoetin
- B. Vitamin B12
- C. Iron
- D. Vitamin B6

B

**106. An adverse effect of oral iron therapy is:**

- A. Anemia
- B. Thrombocytopenia
- C. Headache
- D. Constipation

D

**107. Indicate the drug belonging to antagonists of heparin:**

- A. Aspirin
- B. Dicumarol
- C. Dalteparin
- D. Protamine sulphate

D

**108. This drug is a selective beta-1 agonist:**

- A. Digoxin
- B. Dobutamine
- C. Amrinone
- D. Dopamine

B

**109. This drug inhibits the angiotensin-converting enzyme:**

- A. Captopril
- B. Enalapril
- C. Ramipril
- D. All of the above

D

**110. This drug blocks alpha-1 adrenergic receptors:**

- A. Prazosin
- B. Clonidine
- C. Enalapril
- D. Nifedipine

A