



Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy

# THE UNIVERSITY OF



## CHENAB

Department of Pharmacy  
Mphil Pharmaceutics

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Programs Offered by the Department of Pharmacy	
Degree Name	Degree Details/Eligibility Criteria
<b>M. Phil Pharmaceutics</b>	Department of Pharmacy will allow admission in M. Phil Pharmaceutics to the students having graduation degree in Pharmacy with 2.5 CGPA / 2nd division as a basic minimum criterion for admission. Most universities require a minimum of 2.5/4.0 CGPA (or equivalent 60% marks in annual system). With exactly 2.5 CGPA, you meet the minimum threshold, but competition can be tough. Higher CGPA may increase your chances. Degree must be <b>recognized by HEC</b> (Higher Education Commission of Pakistan) and <b>PCP</b> (Pharmacy Council of Pakistan).



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

1. Disintegration time for un-coated tablet is
  - A. NMT 10 mins
  - B. NMT 15mins
  - C. NMT 20 mins
  - D. NMT 25 mins
2. Frequency of basket rack assembly during disintegration test is
  - A. 30 cycles/min
  - B. 28-32 cycles/min
  - C.  $30 \pm 2$  cycles/min
  - D. Both b & c
3. Hardness of tablet is measure by
  - A. Pfizer's Hardness tester
  - B. Strong Cobb
  - C. Eruwaka Hardness tester
  - D. All the above
4. The Bacterial Endotoxins Test is an \_\_\_\_\_ test based on the formation of a gel in the presence of bacterial endotoxins.
  - A. In-vitro
  - B. In-vivo
  - C. Ex-vivo
  - D. Both a & b
5. For the ampoules Container/Closure integrity test which of the following solution is employed?
  - A. 1% methylene blue
  - B. 1% scarlet green
  - C. 1% erythrosine
  - D. all of these
6. BET stands for
  - A. Bacterial Endotoxins Test
  - B. Bacterial Exotoxins Test
  - C. Biological Endotoxins Test



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- D. Bacterial Enteric Test
7. A rectal suppository is used to treat fever. This would represent what type of drug delivery
- A. Parenteral and local
  - B. Enteral and local
  - C. Parenteral and systemic
  - D. Enteral and systemic
8. The mesh size of USP Disintegrator is
- A. 4-6
  - B. 28-32
  - C. 6-8
  - D. 10
9. Type A gelatin is usually manufactured from
- A. Animal bone
  - B. calf skin
  - C. Pork skin
  - D. None of these
10. Acceptable limit for mechanical strength test is
- A. 1.6 to 1kg
  - B. 1.8 to 2kg
  - C. 1.7 to 2kg
  - D. All of these
11. Softening test is specific for
- A. Urethral suppository
  - B. rectal suppository
  - C. Vaginal suppository
  - D. All of these
12. Thermosensitive preparations are sterilized by
- A. Filtration
  - B. radiation
  - C. Ethylene oxide



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- D. All of these
- 13.** Retrieval of drug is difficult in case of toxicity, poisoning or hypersensitivity reaction
- A. For sustain release dosage forms
  - B. For prolong release dosage forms
  - C. For controlled release dosage forms
  - D. All of these
- 14.** How many types of materials are used to formulate microcapsules?
- A. 3 types
  - B. 4 types
  - C. 2 types
  - D. 5 types
- 15.** Rotary disc atomization is
- A. Physical method of microencapsulation
  - B. Physicochemical method
  - C. Chemical method of microencapsulation
  - D. Both a & c
- 16.** Water soluble resins includes
- A. Ethyl cellulose
  - B. Polyethylene
  - C. Cellulose nitrate
  - D. All of these
- 17.** The size of granules may range from
- A. 0.1 to 4.00 mm in diameter
  - B. 0.3 to 4.00 mm in diameter
  - C. 0.2 to 4.00 mm in diameter
  - D. All of these
- 18.** Multiple emulsion solvent evaporation techniques are used to encapsulate
- A. Protein
  - B. Nucleic acid
  - C. Peptides



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- D. All of these
- 19.** The two reactants or monomers undergo polycondensation in which type of microencapsulation technique.
- A. Interfacial polymerize
  - B. Co-acervation
  - C. In-situ polymerization
  - D. Matrix polymerization
- 20.** Sodium alginate and calcium chloride are used in which type of microencapsulation
- A. Polymerization method
  - B. Co-acervation
  - C. Spray drying
  - D. Solvent evaporation
- 21.** The fundamental considerations for the formulation of microcapsules include
- A. Core materials
  - B. Vehicle
  - C. Coating materials
  - D. All of these
- 22.** Microencapsulation technique classified physically are
- A. Polymerization
  - B. Solvent evaporation
  - C. Air suspension
  - D. Both a & b
- 23.** Council means a Pharmacy Council established under section
- A. 3
  - B. 1
  - C. 4
  - D. 2
- 24.** 'Medical Institution' means an institution whose medical qualifications are recognized under the Medical Council Ordinance:
- A. 1962



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- B. 1963  
C. 1973  
D. 1965
- 25.** Pharmacist' means a person who is registered under section 24
- A. Regist  
B. Register  
C. Register  
D. A, b, and C
- 26.** Persons to be nominated by the Provincial Government, of whom one shall be an officer of that Government.
- A. 6  
B. 8  
C. 5  
D. 7
- 27.** Pakistan Pharmacists Association' means the association registered under the Societies Registration Act
- A. 1963  
B. 1860  
C. 1960  
D. 1920
- 28.** Register C - in which shall be registered the:
- A. Apprentices in pharmacy  
B. Pharmacist  
C. Pharmacy Technician  
D. b and c
- 29.** An inspector of Drugs and a government Analyst appointed under the Drugs Act
- A. 1930  
B. 1967  
C. 1940  
D. 1976



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

**30.** A person who is a qualified person within the meaning of rule ..... of the West Pakistan Drugs Rules 1958, if not otherwise eligible for registration

- A. 65
- B. 66
- C. 67
- D. 68

**31.** The meeting of council shall be summoned and conducted in such manners as may be laid down by its

- A. President
- B. Vice-president
- C. By-laws
- D. Members

**32.** The person to whom the warrant is directed may enter and search the place in accordance therewith, and the provisions of

- A. Code of Criminal Procedure, 1888
- B. Code of Criminal Procedure, 1876
- C. Code of Criminal Procedure, 1878
- D. Code of Criminal Procedure, 1898

**33.** No suit, prosecution or other legal proceedings shall lie against any person for anything which is in good faith done or intended to be done under this Act is:

- A. Cognizance of offences
- B. Indemnity
- C. Power to make bye laws
- D. All

**34.** Power to regulate the possession of any poison in certain areas is under the control of

- A. Federal government
- B. Provincial government
- C. District magistrate
- D. Both a and b





**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

35. In which of the following models the body is considered to be composed of several compartments?
- A. Compartment model
  - B. Physiological model
  - C. Human model
  - D. Non-compartment model
36. In \_\_\_\_\_ model, the peripheral compartment is connected to the central compartment.
- A. Catenary model
  - B. Physiological model
  - C. Mammillary model
  - D. Compartment model
37. The size of granules may range from
- A. 0.1 to 4.00 mm in diameter
  - B. 0.3 to 4.00 mm in diameter
  - C. 0.2 to 4.00 mm in diameter
  - D. All of these
38. what does the word “open” mean in the one-compartment open model?
- A. The drug easily enters
  - B. The drug readily mixes with the blood
  - C. Unidirectional input and output
  - D. Easy absorption
39. The extent of distribution is “partially” determined by the \_\_\_\_\_ of the drug.
- A. Blood flow
  - B. Physical-chemical properties
  - C. Hydrophilicity
  - D. None of these
40. which one is the central compartment among the following in the two-compartment model?
- A. Skin
  - B. Muscles
  - C. Adipose tissues



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- D. Kidney
41. all are lipophilic molecules, except?
- A. Benzodiazepines
  - B. Phenytoin
  - C. Aminoglycosides
  - D. Griseofulvin
42. in pharmacokinetic/ compartment models, the term “compartments” means?
- A. Plasma/ blood
  - B. Extracellular fluids
  - C. Individual organ
  - D. A hypothetical pool of tissue
43. how many rates constant is obtained when a drug is administered extra-vascularly and followed two compartment open model?
- A. 1
  - B. 2
  - C. 3
  - D. 4
44. What is the prime constant among the following?
- A.  $K_{12}$
  - B.  $K_{21}$
  - C.  $K_{10}$
  - D.  $K_e$
45. the ultra-fast disposition drugs have half-life of \_\_\_\_\_?
- A. 1 hr
  - B.  $< 1$  hr
  - C.  $> 1$  hr
  - D. 1-2 hr
46. an increase in the volume of distribution also increases \_\_\_\_\_?
- A. Elimination half-life
  - B. Biological half-life



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- C. Absorption half-life  
D. Both a & b
- 47.** Which of the following is not needed for investigational new drug application?
- A. Animal pharmacology and toxicology  
B. Manufacturing information  
C. Clinical protocol and investigator information  
D. Phase III trial data
- 48.** I123 is used for?
- A. Diagnostic purpose  
B. Therapeutic purpose  
C. Palliative care  
D. All of the these
- 49.** At specified temperature maximum amount of solute that can dissolve in an amount of solvent is known as.
- A. Solubility  
B. Dissolution  
C. Diffusion  
D. capacity
- 50.** Indium111 is used for?
- A. Diagnostic purpose  
B. Therapeutic purpose  
C. Palliative care  
D. All of these
- 51.** The ratio of void volume to bulk volume is known as
- A. Porosity  
B. Tapped density  
C. Bulk density  
D. None of these
- 52.** Hausner's ratio is,
- A. Bulk density/ tapped density



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- B. Bulk volume/ void volume
  - C. Tapped density/ bulk density
  - D. Void volume/ bulk volume
- 53.** Which of the following tablet are formulated to prevent drug release in stomach?
- A. Chewable tablet
  - B. Enteric coated tablet
  - C. Film coated tablet
  - D. Sugar coated tablet
- 54.** In which phase of the clinical trial, the written patient consent form is required?
- A. Phase I
  - B. Phase II
  - C. Phase III
  - D. Both phase I and phase II
- 55.** Xenon133 is used for?
- A. Bone imaging
  - B. Lung imaging
  - C. Prostate cancer
  - D. Lung cancer treatment
- 56.** Strontium89 is used for?
- A. Diagnostic purpose
  - B. Therapeutic purpose
  - C. Palliative care
  - D. Both b and c
- 57.** The name and concentration of any added antimicrobial preservative should be labelled?
- A. Direct container
  - B. Outer package
  - C. Outer packaging
  - D. Both b and c
- 58.** Which radiopharmaceutical is used for measuring glomerular filtration rate?
- A. Cr-EDTA



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- B. Co-EDTA  
C. TC-methylene diphosphonate (MDP)  
D. All of these
- 59.** Vaccines provide \_\_\_\_\_ immunity to the host.
- A. Active  
B. Passive  
C. Acquired  
D. None
- 60.** Which of the following vaccines is used to prevent tuberculosis?
- A. BCG  
B. DPT  
C. Vaccinia  
D. HCG
- 61.** Booster dose is required for \_\_\_\_\_.
- A. Live vaccine  
B. Killed vaccine  
C. Toxoid vaccine  
D. Conjugate vaccine
- 62.** \_\_\_\_\_ is used as a test animal in the bioassay of digitalis.
- A. Guinea pig  
B. Rabbit  
C. Rat  
D. None of these
- 63.** In case of hole technique, the hole of about \_\_\_\_\_ in diameter is made using a borer.
- A. 4-5mm  
B. 6-8mm  
C. 5-8mm  
D. 4-8mm
- 64.** In the case of nystatin the Petri-dishes are filled to a depth of \_\_\_\_\_ with nutrient agar media.



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- A. 3-4mm  
B. 2-3mm  
C. 1-2mm  
D. 2-4mm
65. In the case of the turbimetric method, \_\_\_\_\_ media is used.  
A. Semisolid media  
B. Liquid media  
C. Solid media  
D. All of these
66. The injection of a standard preparation of digitalis is injected into \_\_\_\_\_ of the Guinea pig:  
A. Alar vein  
B. Jugular vein  
C. Marginal vein  
D. None of these
67. The standard preparation of vitamin-D is the \_\_\_\_\_ international standard, established in \_\_\_\_\_.  
A. 1st, 1948  
B. 1st, 1949  
C. 2nd, 1947  
D. 2nd, 1949
68. Zone of inhibition is observed in \_\_\_\_\_ method.  
A. Diffusion method  
B. Turbidimetric method  
C. Both  
D. None of these
69. Which form of cetirizine is more potent?  
A. D-form  
B. L-form  
C. Both are equally potent  
D. None



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

70. Bio-assay is more reliable in sense of \_\_\_\_\_?
- A. In-vivo activity
  - B. In-vitro activity
  - C. Ex-vivo activity
  - D. All of these
71. Mice are used as test animal in bio-assay of \_\_\_\_\_?
- A. Insulin
  - B. Digitalis
  - C. Vitamin-D
  - D. Antibiotics
72. Which of the following is the more accurate method for microbial assay of antibiotics?
- A. Physical assay
  - B. Chemical assay
  - C. Bioassay
  - D. Chemical and bioassay
73. How many pigeons are required for bioassay of digitalis?
- A. 10
  - B. 12
  - C. 14
  - D. 16
74. Rabies vaccines are the example of \_\_\_\_\_?
- A. Live vaccine
  - B. Killed vaccine
  - C. Sub-unit vaccine
  - D. Conjugate vaccine
75. Which drug is composed of complex substances (mixture) of varying structure and activity?
- A. Vitamin-D
  - B. Digitalis
  - C. Insulin
  - D. All of these



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

**76.** The standard preparation of vitamin-D is the \_\_\_\_\_ international standard, established in\_\_\_\_\_.

- A. 1st, 1948
- B. 2nt, 1949
- C. 2nd, 1947
- D. 3rd, 1949

**77.** In the manufacture of toxoid vaccines, the toxin is separated and treated chemically using \_\_\_\_\_?

- A. Methyl parabens
- B. Formaldehyde
- C. Acetaldehyde
- D. Acetone

**78.** In case of insulin, 1mg contains \_\_\_\_\_ units of insulin?

- A. 22
- B. 24
- C. 26
- D. 28

**79.** Silica is combined with \_\_\_\_\_ to increase hardness and durability in the glass.

- A. Boron
- B. Alumina
- C.  $\text{MgCO}_3$
- D. Sodium

**80.** The main component of glass is:

- A. Silica
- B.  $\text{Na}_2\text{CO}_3$
- C.  $\text{MgO}$
- D. All of these

**81.** Which culture media is used for fungi?

- A. Fluid thioglycolate media
- B. SCD media





**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- C. Nutrient agar media  
D. All of these
- 82.** Water-soluble bases are also known as:
- A. Greasy ointment bases  
B. Greaseless ointment bases  
C. Both  
D. None
- 83.** The glass surface is subject to corrosion due to the presence of \_\_\_\_\_.
- A. Magnesium  
B. Sodium  
C. Calcium  
D. Silica
- 84.** Water attack test is used to identify alkalinity in:
- A. Type-I glass  
B. Type-II glass  
C. Type-III glass  
D. All the above
- 85.** Borosilicate glass consists of \_\_\_\_\_ silica?
- A. 73%  
B. 81%  
C. 90%  
D. 80%
- 86.** Sample size required for metal particle test for ointment is.
- A. 20  
B. 15  
C. 10  
D. 30
- 87.** In membrane filtration method, 20-25°C incubation temperature is required for?
- A. Fungi  
B. Aerobic bacteria



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- C. Anaerobic bacteria  
D. Both a & b
- 88.** Unit of spreadability is:
- A. mg.mm/sec  
B. gm.cm/sec  
C. mg.cm/min  
D. gm.mm/sec
- 89.** Official limit for general purpose soda lime glass is:
- A. 0.7 ml  
B. 15 ml  
C. 0.9 ml  
D. 8.5 ml
- 90.** Liposomes were first produced in England in 1961 by \_\_\_\_\_?
- A. Allan Maxam  
B. Walter Gilbert  
C. Alec D. Bangham  
D. Paul Ehrlich
- 91.** why tragacanth is not used as binder because it
- A. Harden on storage  
B. Require in large amount  
C. Incompatible with most of the drugs  
D. Suitable in warm condition
- 92.** adhesion of tablet material to die wall is known as?
- A. Picking  
B. Sticking  
C. Capping  
D. Lamination
- 93.** to asses the resistance of tablet to abrasion, the test performed is known as?
- A. Hardness test  
B. Disintegration test



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- C. Friability test  
D. None
- 94.** In tablet defect picking means
- A. Coloring distribution is not proper
  - B. Partial or complete removal of top or bottom of tablet
  - C. Adhesion of tablet material to side of die
  - D. Two distinct layers on tablet
- 95.** gelatin is used as \_\_\_\_\_?
- A. Encapsulating agent
  - B. Viscosity enhancing agent
  - C. Tablet glidant
  - D. Antimicrobial agent
- 96.** water for injection differ from sterile water for injection because it is free from
- A. Carbon dioxide
  - B. Pyrogen
  - C. Preservatives
  - D. Anti-oxidant
- 97.** which one of the following drying methods is used in pharma industry for drying of soft gelatin capsule?
- A. Vacuum drying
  - B. Fluid bed drying
  - C. Microwaves
  - D. Tray drying
- 98.** sweetening agent commonly used in chewable tablet formulas?
- A. Sucrose
  - B. Mannitol
  - C. Saccharine
  - D. Cyclamate sodium
- 99.** Non-uniformity during uneven color distribution in tablet surface is called?
- A. Orange peel effect



**Sample - Entry Test for M. Phil Pharmaceutics  
Department of Pharmacy**

- B. Mottling
- C. Pitting
- D. Blistering

**100.** which of the following defect is due to highly viscous coating solution?

- A. Lamination
- B. Orange peel
- C. Cracking
- D. Blushing

SAMPLE