

THE UNIVERSITY OF



CHENAB

Department of Pharmacy
Doctor of Pharmacy (Pharm-D)

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Programs Offered by the Department of Pharmacy	
Degree Name	Degree Details/Eligibility Criteria
Doctor of Pharmacy	The Pharm-D Program is of 5-years duration, spread over 10 regular semesters, and consisting of 198 credit hours. At least, 60% marks in intermediate (Pre-Medical) or equivalent are required for admission in Pharm-D.

SAMPLE



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Multiple Choice Questions
English (20 Questions)

Phrases

1. With open arms:
A) Warmly
B) Cold blooded
C) Resemble
D) coldly
2. A hard nut to crack
A) To be deceived
B) Lazy
C) To confirm
D) A difficult problem
3. A gala day
A) A day of festivity
B) A day of brief
C) A rainy day
D) A relevant day
4. A black sheep
A) stranger
B) On the run
C) Scoundrel
D) Gentleman
5. Up to the mark
A) Feel greatly
B) Standard
C) Extinguish
D) Below standard
6. Out of question
A) Resemble
B) Easy
C) Impossible
D) For the end

Antonyms

7. Glib
A) Sincere
B) Simple
C) Casual
D) Inappropriate
8. Luminous
A) Clear
B) Dim



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- C) Brittle
- D) Clever
- 9. Impartial**
 - A) Hostile
 - B) Biased
 - C) Dislike
 - D) Worried
- 10. Heart felt**
 - A) Loving
 - B) Insincere
 - C) Unhealthy
 - D) Humorous
- 11. Secret**
 - A) Friendly
 - B) Covert
 - C) Hidden
 - D) Overt
- 12. Withdraw**
 - A) Reduce
 - B) Need
 - C) Advance
 - D) Want

Synonyms

- 13. Pit**
 - A) Rise
 - B) Hole
 - C) Projection
 - D) Hill
- 14. Chronic**
 - A) Lasting a long time
 - B) Occasionally
 - C) Recently
 - D) After death
- 15. Myopic**
 - A) Long sighted
 - B) Near sighted
 - C) Blind
 - D) Color blind
- 16. To Consume**
 - A) Engulf
 - B) Ambiguous
 - C) Perfect
 - D) Utilize



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17. Notorious
- A) Well known for bad quality
 - B) Generous
 - C) Gentleman
 - D) idealistic.

Fill in the blank with most appropriate word

18. He was absorbed _____ his studies
- A. About
 - B. In
 - C. On
 - D. with
19. Frogs abound _____ this pond
- A. On
 - B. Upon
 - C. In
 - D. with
20. Please attend _____ what I have to say
- A. To
 - B. For
 - C. With
 - D. On
21. Ali was accused _____ murder
- A. Of
 - B. With
 - C. To
 - D. On
22. I can't agree _____ you in this matter
- A. Of
 - B. With
 - C. To
 - D. On
23. No sane person will agree _____ your proposal
- A. With
 - B. To
 - C. Upon
 - D. after
24. He will have to account _____ his strange behavior
- A. For
 - B. By
 - C. From
 - D. with
25. You ought to abide _____ this decision



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- A. With
- B. Of
- C. By
- D. from

Chemistry (25 Questions)

- 26.** Molecular weight of pure water is
- A. One
 - B. 18
 - C. 55.5
 - D. 6
- 27.** If a strip of copper metal is placed in solution of ferrous sulfate
- A. Copper will be deposited
 - B. Iron is precipitated out
 - C. Copper and iron both dissolve
 - D. No reaction take place
- 28.** Stronger the oxidizing agent greater is the
- A. Oxidation potential
 - B. Reduction potential
 - C. Redox potential
 - D. e.m.f of cell
- 29.** If the salt bridge is not used between two half cells, then the voltage
- A. Decrease rapidly
 - B. Decrease slowly
 - C. Doesn't change
 - D. Drop to zero
- 30.** In zero order reaction the rate is independent of
- A. Temperature of reaction
 - B. Concentration of reactants
 - C. Concentration of products
 - D. None of above
- 31.** The pH of 10⁻³ Mol/dm³ of an aqueous solution of H₂SO₄ is
- A. 3
 - B. 27
 - C. 2
 - D. 1.5
- 32.** The change in the heat energy of a chemical reaction at constant temperature and pressure is called
- A. Enthalpy change
 - B. Bond energy
 - C. Heat of sublimation
 - D. nternal energy change



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33. Which of the following molecule has zero dipole moment?
- A. NH_3
 - B. CHCl_3
 - C. H_2O
 - D. BF_3
34. Which of the hydrogen halide has the highest percentage of ionic character?
- A. HCl
 - B. HBr
 - C. HF
 - D. BF_3
35. The no. of bonds in nitrogen molecule is
- A. 1σ and 1π
 - B. 1σ and 2π
 - C. 3σ only
 - D. 2σ and 1π
36. Orbital having same energy are called
- A. Hybrid orbital
 - B. Valence orbital
 - C. Degenerate orbital
 - D. d-orbital
37. When 6 d orbital is complete, the entering electron goes into
- A. 7f
 - B. 7s
 - C. 7p
 - D. 7d
38. In the ground state of an atom, the electron is present
- A. In the nucleus
 - B. In the second shell
 - C. Nearest the nucleus
 - D. Farthest from nucleus
39. The velocity of photon is
- A. Independent of wavelength
 - B. Depends upon its wavelength
 - C. Equal to square of its amplitude
 - D. Depends upon its source
40. The nature of positive rays depends on
- A. The nature of electrode
 - B. The nature of discharge tube
 - C. The nature of residual gas
 - D. All of above
41. Diamond is bad conductor because of
- A. It has tight structure
 - B. High density



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- C. There are no free electrons
D. It is transparent
- 42.** Which one of the following is pseudo solids
- A. CaF_2
B. Glass
C. NaCl
D. All
- 43.** Ionic solids are characterized by
- A. Low melting point
B. Good conductor in solid state
C. High vapor pressure
D. Soluble in polar solvents
- 44.** Acetone and chloroform are soluble in each other due to
- A. Both are non-polar
B. Dipole-dipole interaction
C. Both are polar
D. All of them
- 45.** When water freezes at 0°C , its density decreases due to
- A. Cubic structure of ice
B. Empty spaces present in the structure of ice
C. Change of bond length
D. Change of bond angles
- 46.** The molar volume of CO_2 is maximum at
- A. STP
B. 127°C and 1 atm
C. 0°C and 2 atm
D. 273°C and 2 atm
- 47.** If an absolute temperature of a gas is doubled and pressure is reduced to one half, the volume of the gas will be
- A. Remain unchanged
B. Increase four times
C. Reduce to $1/4$
D. Doubled
- 48.** The comparative rates at which the solutes move in paper chromatography depends upon
- A. The size of paper
B. R_f value
C. Temperature
D. Size of tank
- 49.** The molar mass of H_3PO_4 is
- A. 90
B. 92



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C. 96

D. 98

50. Oxygen has _____ isotopes

A. 1

B. 2

C. 3

D. 4

Biology (25 Questions)

51. The final product of glycolysis is

A. Glucose

B. Lactic acid

C. Pyruvate

D. Acetyl CoA

52. The neurons net of hydra lacks

A. Neurons

B. Dendrites

C. Connections

D. Direction of impulse flow

53. Generally, the type of fermentation that occurs in the muscle cells of animals is known as _____.

A. Alcoholic fermentation

B. Lactic acid fermentation

C. Aerobic respiration

D. Both A and B

54. Which of following are non-sense codons

A. AUG

B. UAA

C. CUA

D. All of above

55. The basic unit of heredity is the

A. DNA

B. RNA

C. Gene

D. Chromosome

56. The statement "To every action there is an equal and opposite reaction" is related to newton's _____ law.

A. 1st

B. 2nd

C. 3rd

D. None

57. Cardiac muscles are

A. Voluntary



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- B. Involuntary
 - C. Both A & B
 - D. None of above
- 58.** Brachioradialis causes the uplift of
- A. Radius
 - B. Ulna
 - C. BOTH A & B
 - D. Humerus
- 59.** The Mendel's 2nd law is generally termed as _____.
- A. Law of segregation
 - B. Law of separation
 - C. Law of dependent assortment
 - D. Law of independent assortment
- 60.** During the dark reaction of photosynthesis, the main process which occur is
- A. Release Of Oxygen
 - B. Energy Absorption By Chlorophyll
 - C. Adding Of Hydrogen
 - D. Formation of ATP
- 61.** Magnesium is an important ion in green plants as it is an essential component of
- A. Cell sap
 - B. Protein
 - C. Chlorophyll
 - D. Glucose
- 62.** The model structure of DNA is also known as _____ model?
- A. Peter Mitchell
 - B. Andre Jagendorf
 - C. Ernest Uribe
 - D. Watson and Crick
- 63.** The closest relative of fungi is probably
- A. Animals
 - B. Slime molds
 - C. Brown algae
 - D. Vascular plants
- 64.** E. coli of fungi is the
- A. Rusts
 - B. Brown mold
 - C. Green mold
 - D. Yeasts
- 65.** Algae which have shells composed of two half's that fit together like petri dish belong to
- A. Brown algae
 - B. Diatoms



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- C. Green algae
- D. Red algae
- 66. The sexual process exhibited by most ciliates is called
 - A. Oogamy
 - B. Binary fission
 - C. Conjugation
 - D. Fertilization
- 67. Bacterial endospores function in
 - A. Reproduction
 - B. Protein synthesis
 - C. Survival
 - D. Storage
- 68. The major locomotors structure in bacteria are
 - A. Flagella
 - B. Fimbriae
 - C. Pili
 - D. Cilia
- 69. Temperate phage may exist as
 - A. Prophage
 - B. Capsid
 - C. Virioid
 - D. Retro virus
- 70. A viron is
 - A. Virus
 - B. Viran protein
 - C. Viral lysozyme
 - D. Viral gene
- 71. Enzymes are primarily composed of
 - A. Carbohydrate
 - B. Lipids
 - C. Proteins
 - D. Nucleic acid
- 72. Peptide bond is
 - A. C-N link
 - B. C-O link
 - C. N-H link
 - D. C-H link
- 73. Protozoans are unicellular organisms which are grouped under the kingdom?
 - A. Monora
 - B. Protista
 - C. Fungi
 - D. Animalia



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- 74.** Which one of the following is employed in the cancer treatment
- A. Antibiotic & vaccination
 - B. Radio therapy & Chemotherapy
 - C. Chemotherapy & antibiotics
 - D. All of above
- 75.** An organism with both male and female reproductive organs and the ability to create both gametes for each sex is called_____.
- A. Hemophilic
 - B. Bisexual
 - C. Bilingual
 - D. Hermaphrodite

Physics (25 Questions)

- 76.** Echolocation allows dolphins to detect small difference in the
- A. Shape
 - B. Size
 - C. Thickness
 - D. All of above
- 77.** The Doppler effect can be used to monitor blood flow through
- A. Veins
 - B. Arteries
 - C. Inferior veinacava
 - D. Superior veinacava
- 78.** A surface on which all the point has the same phase of vibration is known as
- A. Wavelength
 - B. Wave front
 - C. Frequency
 - D. None of above
- 79.** Direct conversion of sunlight into electricity through semiconductor device is called
- A. Solar cell
 - B. Photo voltaic cell
 - C. Both A & B
 - D. None of above
- 80.** The example of biofuel is
- A. Gasoline
 - B. Petrol
 - C. Diesel
 - D. ethanol
- 81.** The turning effect of force is called
- A. Trough
 - B. Torque



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- C. Work
D. Resonance
- 82.** Degradation of energy measurement is called
A. Entropy
B. Enthalpy
C. Harmonics
D. None of above
- 83.** The conservative field is a field in which work done along a close path is
A. 0
B. 1
C. 2
D. 3
- 84.** A completely isolated process in which no heat transfer can take place is called
A. Antinode
B. Core
C. Cladding
D. Adiabatic process
- 85.** The critical angle is angle of incidence for which angle of refraction is
A. 450
B. 700
C. 900
D. 1800
- 86.** The color of light emitted by LED depends on
A. Its forward bias
B. Its reverse bias
C. he amount of forward current
D. None of above
- 87.** In nuclear fission reaction, ${}^{235}_{92}\text{U}$ produces neutrons
A. 1
B. 2
C. 3
D. 4
- 88.** Ultraviolet radiation may cause
A. Sun burn
B. Blindness
C. Skin cancer
D. All of above
- 89.** The half-life of $\text{Tc}99$ is
A. 15 hrs.
B. 45 days
C. 6 hrs.
D. 8 days



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- 90.** Subatomic particles are
- A. Photons
 - B. Leptons
 - C. Hadrons
 - D. All of above
- 91.** A diode characteristic curve is plotted between
- A. Current & time
 - B. Voltage & time
 - C. Voltage & current
 - D. Forward voltage & reverse voltage
- 92.** In a bullet train, the magnetic effect can enhance the speed up to
- A. 200Km/h
 - B. 300 Km/h
 - C. 400 Km/h
 - D. 500 Km/h
- 93.** Stress is the force applied on unit area to produce change in _____ of a body
- A. Shape
 - B. Volume
 - C. Length
 - D. All of above
- 94.** When electrons in transmitting antenna vibrate 94000 times per second, they produce radio waves having frequency
- A. 90KHz
 - B. 94 KHz
 - C. 194 KHz
 - D. 184z
- 95.** A current generator is a device that converts _____ energy into electrical energy
- A. Chemical
 - B. Thermal
 - C. Mechanical
 - D. All of above
- 96.** The phenomena in which a changing current in a coil induces an e.m.f in itself is called
- A. Mutual induction
 - B. Self-induction
 - C. Linear induction
 - D. None of above
- 97.** Capacitor is a device that can
- A. Generate charge
 - B. Store charge
 - C. Consume charge
 - D. All of above



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- 98.** An ECG record the _____ between points on human skin generated by electrical process in the heart
- A. Ampere
 - B. Voltage
 - C. Waves
 - D. All of above
- 99.** A body that absorbs all the radiations incident upon it is called
- A. Plain body
 - B. Reflecting body
 - C. Black body
 - D. None of above
- 100.** The speed of sound in water at 200C is
- A. 5130m/s
 - B. 1130 m/s
 - C. 1483 m/s
 - D. 1320