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212

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TBC: AKG-AP-PHARMACEUTICS-17

Maximum Marks: 100 Time Allowed: 2 Hoursl

## INSTRUCTIONS

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- You have to enter your Roll Number on the Test Booklet. 2. in the Box provided alongside. DO NOT write anything else
- on the Test Booklet. This Test Booklet contains 100 items (questions). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct 3. response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer Sheet provided. No 4. erasing/correction fluid is allowed.
- All items carry equal marks. 5.
- Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions 6. sent to you with your Admission Certificate.
- After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer Sheet. You are 7. permitted to take away with you the Test Booklet.
- Sheets for rough work are appended in the Test Booklet at the end. 8.
- Penalty for wrong answers : THERE WILL BE PENALTY (NEGATIVE MARKING) FOR WRONG ANSWERS 9. MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
  - There are four alternatives for the answers to every question. For each question for which a wrong answer has been given by the candidate, one fourth (0.25) of (i) the marks assigned to that question will be deducted as penalty.
  - If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answer happen to be correct and there will be same penalty as above for that question.
  - If a question is left blank i.e. no answer is given by the candidate, there will be (iii) no penalty for that question.
  - Use and carrying of Mobile Phone and Electronic Gadget is prohibited in Examination Hall.

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1

- In a prescription 'Direction to the Pharmacist' is called as :
  - (A) Superscription
  - (B) Inscription
  - (C) Subscription
  - (D) Signatura
- 2. The term Lavigation is used in :
  - (A) Size reduction in small scale preparation of ointments
  - (B) Size reduction in small scale preparation of powders
  - (C) Size reduction in large scale
    - preparation of colloids
  - (D) None of the above

- 3. Which of the following is not an example of Oleaginous Base?
  - (A) White petrolatum
  - (B) Hydrophilic petrolatum
  - (C) White ointment
  - (D) Yellow ointment
- 4. In gels, the term 'magma' is referred to as :
  - (A) Single-phase gel
  - (B) Two-phase gel
  - (C) Jellies
  - (D) Gels having low viscosity

- 5. 'Caulking gun' system is used for filling of :
  - (A) Ointment jars
  - (B) Ointment bottles
  - (C) Ointment tubes
  - (D) Both (A) and (B)
- Pyroxilin is present only in :
  - (A) Liniments
  - (B) Collodions
  - (C) Extracts
  - (D) Lotions
- 7. Bentonite is the silicate of :
  - (A) Mg
  - (B) Al
  - (C) Ca
  - (D) C

- 8. Alkaloidal incompatibility is an example of:
  - (A) Physical
  - (B) Chemical
  - (C) Therapeutic
  - (D) None of the above
- 9. Number of meshes in a length of
  - 25.4 mm (i.e. 1 inch), in each
  - direction is known as:
  - (A) Sieve number
  - (B) Sieve diameter
  - (C) Nominal size aperture
  - (D) None of the above

- 10. The temperature which is given by
  a heat balance between the initial
  unsaturated vapor-gas mixture and
  the final saturated mixture at
  thermal equilibrium is known as:
  - (A) Dry bulb temperature
  - (B) Wet bulb temperature
  - (C) Adiabatic saturation temperature
  - (D) Enthalpy
- 11. When the value of the Reynolds number is less than 2000, the type of flow is:
  - (A) Streamline
  - (B) Transition
  - (C) Turbulent
  - (D) None of the above

- 12. Pearlite used as filter aid, which is:
  - (A) Silica and aluminium silicate
  - (B) Charcoal
  - (C) Kaolin
  - (D) Gelatin
- 13. The ε (emissivity) of a black body

is :

- (A) 1.0
- (B) 1.5
- (C) 2.0
- (D) 0.5

- 14. Grade 5 of sintered glass filters are used for :
  - (A) Non-sterile filtration
  - (B) Sterile filtration
  - (C) Both (A) and (B)
  - (D) None of the above
- 15. Ball mill works on the principle of :
  - (A) Impact
  - (B) Attrition
  - (C) Compression
  - (D) Impact and Attrition both
- 16. Movement of particles during size separation can be enhanced by :
  - (A) Mixing
  - (B) Attrition
  - (C) Gravitation
  - (D) Agitation

- 17. According to Rittinger theory :
  - (A) Energy used in rack propagation is proportional to the new crack length produced
  - (B) Energy used in deforming a set

    of particles of equivalent shape

    is proportional to the ratio of

    change of size
  - (C) Energy required in a size reduction process is proportional to the new surface area produced
  - (D) All of the above

- 18. Latent heat of vaporization is the specific enthalpy change associated with :
  - (A) Drying
  - (B) Filtration
  - (C) Evaporation
  - (D) None of the above
- 19. Which medium is more effective for
  - thermal radiation ?
  - (A) Air
  - (B) Vacuum
  - (C) Water
  - (D) Insulated with cotton

- 20. Condensation occurs when a saturated vapor comes in contact with a surface whose temperature is:
  - (A) Less than the saturation temperature
  - (B) Greater than the saturation temperature
  - (C) Neither greater than nor less than the saturation temperature
  - (D) None of the above
- 21. Most abundantly present immunoglobulin in the body is :
  - (A) IgG
  - (B) IgM
  - (C) IgA
  - (D) IgD

- 22. Staphylococcus aureus is an example of :
  - (A) Gram positive bacteria
  - (B) Gram negative bacteria
  - (C) Rickettsias
  - (D) Mycoplasm
- 23. Gram staining is also known as :
  - (A) Acid fast staining
  - (B) Negative staining
  - (C) Differential staining
  - (Df Simple staining
- 24. Which medium is best suited for testing of Bacillus subtilis?
  - (A) Soyabean casein digest medium
  - (B) Empirical medium
  - (C) Fluid thioglycolate medium
  - (D) Alternate fluid thioglycolate medium

- 25. Turbid or cloudy solutions are assayed by :
  - (A) Turbidimetric method
  - (B) Cylinder plate method
  - (C) Cup and plate method
  - (D) None of the above
  - 26. Nutrient medium consisting of water, beef extract, peptone protein supplement is known as:
    - (A) Simple medium
    - (B) Nutrient broth
    - (C) Complex medium
    - (D) Empirical medium

- 27. To confirm the efficiency of radiation sterilization, the biological indicator used is :
  - (A) Bacillus subtilis
  - (B) Bacillus pumilis
  - (C) Clostridium sporgenes
  - (D) Candida albicans
  - 28. Rideal-walker coefficient for grade 2

disinfectant is:

- (A) 15
- (B) 10
- (C) 12
- (D) 5

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29. Schick test works on the principle

of:

- (A) Radioimmuno assay
- (B) Complexation reaction
- (C) Toxin neutralization
- (D) Agglutination
- 30. In production of vitamin  $B_{12}$  by fermentation, the strain used is :
  - (A) Clostridium butylicum
  - (B) Ashby gossypii
  - (C) Presdomonas denitrificans
  - (D) Salmonella typhi

31. What is prophylactic disinfection?

- 1

- (A) Pasteurization of milk
- (B) Disinfection of infected material by removal of patient to hospital
- (C) Carried out during course of patient's illness
- (D) None of the above
- 32. Killed, polio vaccine is :
  - (A) Sabin vaccine
  - (B) Salk vaccine
  - (C) BCG vaccine
  - (D) TAB vaccine

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- 33. Schedule V stands for:
  - (A) List of drugs marketed under generic names only
  - (B) Particulars to be shown in manufacturing, raw materials and analytical records of drugs
  - (C) Standards for patent or proprietary medicines
  - (D) Standards for cosmetics
- 34. Schedule P1 stands for :
  - (A) List of dyes, pigments, colors and pigments permitted in cosmetics and soaps
  - (B) Life period of drugs
  - (C) Standard for medical devices
  - (D) Pack size of drugs

- 35. Licenses which are made in Form
  24-A and issued in Form 25-A
  are:
  - (A) Repackaging licenses
  - (B) New drug license
  - (C) Loan license
  - (D) None of the above
- 36. Sera, solutions, toxins are regulated

under:

- (A) Schedule C
- (B) Schedule Y
- (C) Schedule E1
- (D) Schedule FF

- 37. Wholesale of drugs specified in schedule X is issued under form:
  - (A) 21A
  - (B) 20G
  - (C) 25B
  - (D) 24F
- 38. Poison Act was passed in :
  - (A) 1921
  - (B) 1952
  - (C) 1982
  - (D) 1919

- 39. According to Medical Termination of Pregnancy Act pregnancy cannot be terminated by a registered medical practitioner:
  - (A) When length of pregnancy does not exceed 12 weeks
  - (B) When length of pregnancy exceeds 12 months but does not exceed 16 weeks
  - (C) When length of pregnancy exceed 12 weeks but does not exceed 20 weeks
  - (D) When continuation of pregnancy involve serious risk to life of pregnant woman

- 40. Which of the following diseases comes under Schedule J?
  - (A) Glaucoma
  - (B) Malaria
  - (C) Diabetes
  - (D) None of the above
- 41. Standard for disinfectant fluid comes
  - (A) Schedule O
  - (B) Schedule R
  - (C) Schedule N
  - (D) Schedule V

- 42. Hargen's gas bearing electrodynamometer is used to monitor :
  - (A) Thyrotrophic behavior
  - (B) Viscoelastic behavior
  - (C) Viscosity
  - (D) Both (A) and (B)
- 43. Cold compression method is used for

preparation of

- (A) Ointments
- (B) Suppositories
- (C) Pessaries
- (D) Enema

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44. Which one of the following is not a

hard wax ?

- (A) Carnauba wax
- (B) Candeilia wax
- (C) Ozokerite wax
- (D) Hard paraffin
- 45. The lipstick defect in which it appears dull is called as:
  - (A) Streaking
  - (B) Sweating
  - (C) Bleeding
  - (D) Blooming

**Pharmacy Notes** 

- 46. What is the use of selenium sulfide
  - in shampoos?
  - (A) Surfactant
  - (B) Anti-dandruff agent
  - (C) Conditioning agent
  - (D) Foam booster
- 47. Draize test is used for which of the
  - following for a shampoo
  - (A) Skin irritation
  - (B) Skin sensitivity
  - (C) Foamibility
  - (D) Preservative activity

- 48. Color of calamine is due to :
  - (A) Ferrous sulfate
  - (B) Ferrous oxide
    - (C) Ferric oxide
  - (D) Calcium oxide
- 49. Honeywill atlas is the common name of :
  - (A) Spans
  - (B) Tweens
  - (C) Ploxaloids
  - (D) Macrogels
- 50. Wursters process means:
  - (A) Pan coating
  - (B) Coacervation
  - (C) Air suspension
  - (D) Solvent evaporation

- 51. What is the value of Hauser's ratio for good flow ?
  - (A) 1.05-1.18
  - (B) 1.14-1.20
  - (C) 1.22-1.26
  - (D) 1.26-1.30
- 52. Triclosan is used as:
  - (A) Anti-bacterial
  - (B) Binding agent
  - (C) Preservative
  - (D) Anticaries
- 53. An apparatus used to measure thixotropy is:
  - (A) Manometer
  - (B) Rotameter
  - (C) Sorptometer
  - (D) Penemeter

- 54. Wool fat is:
  - (A) Hydrous lanolin
  - (B) Anhydrous lanolin
  - (C) Bees wax
  - (D) Hard paraffin
- 55. Draves test is associated with measuring the efficiency of :
  - (A) Detergents
  - (B) Wetting agents
  - (C) Suspending agents
  - (D) Adsorbent
- 56. Mailard reaction is shown by :
  - (A) Spray dried lactose
  - (B) Anhydrous lactose
  - (C) Hydrous lactose
  - (D) Starch

- 57. In tablet defects, the material adhering to die wall is referred as:
  - (A) Capping

1

- (B) Picking
- (C) Sticking
- (D) Mottling
- 58. The smallest capsule size for human consumption is :
  - (A) 0
  - (B) 1
  - (C) 3
  - (D) 5
- 59. A water insoluble coating agent used in microencapsulation is :
  - (A) Polyamides
  - (B) Polyvinyl alcohol
  - (C) Polyacrylic acid
  - (D) PVP

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- 60. Water attack test is performed for:
  - (A) General purpose soda lime
  - (B) Borosilicate
  - (C) Treated soda lime
  - (D) Soda lime
- 61. A propellant used in aerosols is selected on the basis of :
  - (A) Density
  - (B) Vapor pressure
  - (C) Boiling point
  - (D) All of the above
- 62. A parenteral preparation should have a pH of :
  - (A) 6.9
  - (B) 7.0
  - (C) 7.4
  - (D) 7.8

P.T.O.

15

63. Isoelectric point of type B gelatin

is:

- (A) 3.7
- (B) 4.7
- (C) 5.7
- (D) 5.0
- Sublingual administration of drugs

involve :

- (A) Swallowing the tablet
- (B) Chewed the tablet
  - C) Beneath the tongue
- (D) All of the above

- 65. AUC reflect the :
  - (A) Amount of active drug which reaches the systematic circulation
  - (B) Amount of active drug which is absorbed
  - (C) Amount of active drug which is
  - (D) Amount of active drug which is metabolized
- 66. Insecticide Act was passed in the year:
  - (A) 1976
  - (B) 1950
  - (C) 1949
  - (D) 1968

- 67. Which equation is used to predict
  the stability of a drug product at
  room temperature from experiments
  at accelerated temperatures?
  - (A) Stokes equation
  - (B) Arrhenius equation
  - (C) Michaelis-Menten equation
  - (D) Hixson-Crowell equation
- 68. Cytochromes P450 (CYPs) are
  - (A) Proteins of the super family
  - (B) In this P is a pigment which is absorbed at 450 nm
  - C) Both (A) and (B)
  - (D) None of the above

- 69. Orosomucoid is also known as :
  - (A) Hemoglobin
  - (B) Human serum albumin
  - (C) α1-Acid glycoprotein
  - (D) None of the above
- 70. Which equation describes the rate of drug dissolution from a tablet?
  - (A) Fick's law
  - (B) Henderson-Hasselbalch equation
  - (C) Michaelis-Menten equation
  - (D) Noyes-Whitney equation
- 71. Protein act as buffer due to :
  - (A) Amphiphatic nature
  - (B) Acidic nature
  - (C) Basic nature
  - (D) Colloid nature

P.T.O.

17

- 72. Passive diffusion is described by :
  - (A) Ficks first law
  - (B) Ficks second law
  - (C) Ficks third law
  - (D) Ficks fourth law
- 73. Xenobiotics are considered:
  - (A) Endogenous
  - (B) Exogenous
  - (C) Inorganic poisons
  - (D) Toxins

as :

- 74. Cellulose acetate phthalate is an agent used in sugar coating of tablet
  - (A) Seal coating
  - (B) Sub coating
  - (C) Syruping
  - (D) Polishing

- 75. Rhusma was the firstly reported :
  - (A) Nail preparation
  - (B) Shampoo
  - (C) Hair gel
  - (D) Depilatory
- 76. Widal test is used for the detection of :
  - (A) Rickettsial diseases
  - (B) Typhoid fever
  - (C) Syphilis
  - (D) Malaria
- 77. What is the duration of sweat collection in gravimetric method of evaluation of anti-perspirants?
  - (A) 20 minutes
  - (B) 30 minutes
  - (C) 40 minutes
  - (D) 50 minutes

- 78. The correct equivalent for -10°C is:
  - (A) -10°F
  - (B) +22°F
  - (C) -18°F
  - (D) +14°F
  - 79. The loading dose of a drug is based upon the :
    - (A) Time taken for complete elimination
    - (B) Percentage of drug excreted unchanged in urine
    - (C) Percentage of drug bound to plasma protein
    - (D) Apparent volume of distribution
      and the desired drug
      concentration in plasma
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- 80. HLB system is used to classify:
  - (A) Surfactants
  - (B) Preservatives
  - (C) Antioxidants
  - (D) Sequestering agents
- 81. The title of Netaji Subhash Chandra
  Bose unfinished book is:
  - (A) Indian Abroad
  - (B) My Freedom
  - (C) An Indian Pilgrim
  - (D) A Truth
- 82. In which year the Wildlife
  Protection Act was introduced in
  India?
  - (A) 1972
  - (B) 1980
  - (C) 1960
  - (D) 1965

P.T.O.

19

- 83. Which one of the following is the Chairman of the National Development Council?
  - (A) President of India
  - (B) Finance Minister of India
  - (C) Prime Minister of India
  - (D) Vice-President of India
  - 84. Which Planet is referred to as a

"Dwarf Planet"?

- (A) Mars
- (B) Mercury
- (C) Plato
- (D) Saturn

- 85. Which mountain form boundary between Spain and France?
  - (A) Pyrenees
  - (B) Andes
  - (C) Rockies
  - (D) Jura
- 86. Which of the following has been described as the "Soul of the Indian Constitution"?
  - (A) The Parliament
  - (B) Directive Principles of State
    Policy
  - (C) Fundamental Rights
  - (D) Right to Constitutional
    Remedies

- 87. Council of Ministers is collectively responsible for :
  - (A) President
  - (B) Prime Minister
  - (C) Parliament
  - (D) Lok Sabha
- 88. Who was the permanent President

of the Constituent Assembly?

- (A) Sachidananda Sinha
- (B) Dr. B.R. Ambedkar
- (C) Jawahar Lal Nehru
- (D) Dr. Rajendra Prasad

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- 89. Which of the following articles deals with the Scheduled and
  - (A) Article 311
  - (B) Article 203
  - (C) Article 220
  - (D) Article 244
- 90. The name of the great maestro of

  Indian music, "Ustad Bismillah

  Khan" is related to:
  - (A) Flute
  - (B) Sarod
  - (C) Shehnai
  - (D) Tabla

P.T.O.

21

- 91. "Uhl" is a tributary of :
  - (A) Satluj
  - (B) Ravi
  - (C) Beas
  - (D) Yamuna
- 92. Who said about Spiti that, "This place is no place for men"?
  - (A) A.O. Hume
  - (B) Lord Reading
  - (C) Rudyard Kipling
  - (D) James Peter
- 93. Pajhota area in Sirmour district is now the part of tehsil :
  - (A) Pacchad
  - (B) Rajgarh
  - (C) Renuka
  - (D) Shilai

- 94. Shilaroo Sports Complex is in district:
  - (A) Solan
  - (B) Sirmour
  - (C) Kinnaur
  - (D) Shimla
- 95. "Giri" Ganga stream rises at :
  - (A) Kuppar Peak
  - (B) Churdhar Peak
  - (C) Narkanda Peak
  - (D) Kufri Peak
- 96. "Chandra" and "Bhaga" rivers meet

  at:
  - (A) Koksar
  - (B) Udaipur
  - (C) Tandi
  - (D) Mindhal

97. Kinnaur was merged in Himachal Pradesh as the ..... district. (A) 6th (B) 7th (C) 8th (D) 3rd 98. Gondha Fort (Castle) is located in district: (A) Kinnaur (B) Lahaul-Spiti

- 99. In Himachal Pradesh Dum (Dumh)
  was parallel to :
  - (A) Begaar Custom
  - (B) Non-cooperation
  - (C) Land Tax
  - (D) Reet Custom
- 100. Pong Dam on the river Beas in
  - district Kangra is also known as :
  - (A) Maharana Pratap Sagar Dam
  - (B) Maharaja Ranjit Singh Dam
  - (C) Maharaja Sansar Chand Dam
  - (D) Maharaja Susharma Chand

    Dam

3 P.T.O.

(C) Sirmour

(D) Shimla