



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Science in Operation Theatre Technology

Course Name – Clinical Pharmacology

Course Code - BOTT204

(Semester II)

Time allotted : 1 Hrs.15 Min.

Full Marks : 60

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 60=60

Choose the correct alternative from the following :

- (1) The science which deals with drugs in the human body

a) Physiology	b) Pathology
c) Pharmacology	d) Microbiology
- (2) The effect of drug on human body

a) Pharmacokinetics	b) Pharmacodynamics
c) Pharmacy	d) Pharmacognyosy
- (3) Drugs are excreted from body through

a) Kidney	b) Breast Milk
c) Sweat & Saliva	d) All
- (4) The absorbtion of drug is affected by

a) Route of drug administration	b) Solubility of drug
c) Site of administration	d) All
- (5) Application of the drug to the skin by friction

a) Inhalation	b) Instillation
c) Insertion	d) Inunction
- (6) Drug induced in bone marrow

a) Intra peritoneal	b) Intra medullary
c) Intrathecal	d) Intra osseous
- (7) Test dose of penicillin is administered by

a) Intra peritoneal	b) Intra medullary
c) Intrathecal	d) Intra dermal

- (8) Before prescribing drug, following informations to be noted in prescription
- | | |
|--|-------------------------------------|
| a) Name of the patient & drug | b) Signature of physician with date |
| c) Dosage & route of drug administration | d) All |
- (9) Drug used to treat convulsions in epileptic treatment
- | | |
|--------------------|---------------|
| a) Antidote | b) Analgesics |
| c) Anticonvulsants | d) Antiseptic |
- (10) Scientists are able to study sleep through the recording of brain waves, accomplished by the use of:
- | | |
|--------|--------|
| a) ECG | b) EEG |
| c) MRI | d) PET |
- (11) Alpha waves are seen in
- | | |
|------------------|--------------------------|
| a) Stage 1 sleep | b) Stage 2 sleep |
| c) REM sleep | d) Slow wave sleep (SWS) |
- (12) Waves seen while one is wide awake with full consciousness
- | | |
|----------|----------|
| a) Alpha | b) Beta |
| c) Gamma | d) Delta |
- (13) Muscles cannot move in
- | | |
|------------------|--------------------------|
| a) Stage 1 sleep | b) Stage 2 sleep |
| c) REM sleep | d) Slow wave sleep (SWS) |
- (14) Sedative drug produces
- | | |
|---|------------------|
| a) CNS Depression without producing sleep | b) Insensitivity |
| c) Pain | d) Insomnia |
- (15) Hypnotics in larger doses produce
- | | |
|----------------------|------------------------|
| a) Local anaesthesia | b) Allergy |
| c) Protein synthesis | d) General anaesthesia |
- (16) Short acting barbiturates
- | | |
|----------------|-------------------|
| a) Thiopentone | b) Pentobarbitone |
| c) Diazepam | d) Methyprylon |
- (17) The duration of action of ultra short acting barbiturates
- | | |
|------------|------------|
| a) 30 mins | b) 45 mins |
| c) 15 mins | d) 60 mins |
- (18) The duration of action of short acting barbiturates
- | | |
|----------------|------------|
| a) 3-8 hours | b) 1 hour |
| c) 10-15 hours | d) 60 mins |
- (19) Neonatal jaundice is treated by
- | | |
|-----------------|-------------------|
| a) Diazepam | b) Phenobarbitone |
| c) Glutethimide | d) Nikethamide |
- (20) Barbituric acid derivative is
- | | |
|-------------------|----------------|
| a) Glutethimide | b) Diazepam |
| c) Phenobarbitone | d) Nikethamide |
- (21) Barbiturate used in induction of general anaesthesia
- | | |
|-------------------|-------------------|
| a) Pentobarbitone | b) Phenobarbitone |
|-------------------|-------------------|

- c) Thiopentone
 (22) Seizures can be caused by:
 a) Malfunctioning gene
 c) Exposure to a toxic substance
- d) Methyprylon
 b) Brain injury that left scar tissue or other damage
 d) All the above
- (23) How does a healthcare provider diagnose epilepsy?
 a) NMR
 c) PET
- b) EEG
 d) MRI
- (24) Mechanism of action of Perampanel is through
 a) AMPA receptor blocking
 c) Prolonging sodium channel inactivation
- b) Potassium channel blocking
 d) AMPA receptor facilitation
- (25) Which type of diet may provide insight into new targets for anti-epileptic drug design and therapeutic approaches?
 a) Gluten-free diet
 c) Paleo diet
- b) Ketogenic diet
 d) Vegan diet
- (26) Oily injection is preferable to give by which route
 a) Subcutaneous
 c) Intravenous
- b) Intramuscular
 d) None
- (27) ED50 is a measure of
 a) Toxicity
 c) Potency
- b) Safety
 d) Efficacy
- (28) Forced Alkaline Diuresis of Alkanization of urine is used in Poisoning with
 a) Barbiturates
 c) Alcohol
- b) Amphetamina
 d) Datura
- (29) In unconjugated hyperbilirubinemia, the risk of kernicterus increases with the use of
 a) Ceftriaxone
 c) Ampicillin
- b) Phenobarbitone
 d) Sulphonamide
- (30) A highly ionized drug
 a) Is excreted mainly by the kidney
 c) Is well absorbed from the intestine
- b) Can cross the placenta easily
 d) Accumulates in the lipids
- (31) True about teratogenicity of a drug is all except
 a) Environment influences it
 c) It is genetically predetermined
- b) Related to the dose of the teratogenic drug
 d) Affects especially at a particular phase of development of foetus
- (32) Which drug is not acetylated
 a) NH
 c) Hydralazine
- b) Dapsone
 d) Metoclopramide
- (33) Loading dose depends on?
 a) Clearance
 c) Rate of administration
- b) Volume of distribution
 d) Half-life
- (34) Therapeutic monitoring is done for all of the following except
 a) Tacrolimus
- b) Metformin

- c) Cyclosporine
- (35) Maternal carbimazole intake causes all except
- a) Choanal atresia
- c) Fetal goitre
- (36) Which of the following is a prodrug?
- a) Clonidine
- c) Salmeterol
- (37) Side effects of a drug arise due to the interactions of the drug of molecules other than the target. These effects of a drug can be minimized by its high
- a) Specificity
- c) Solubility
- (38) For drugs with first-order kinetics the time required to achieve steady-state levels can be predicted from?
- a) Volume of distribution
- c) Clearance
- (39) True statement regarding first order kinetics is?
- a) Independent of plasma concentration
- c) $T_{1/2}$ increases with dose
- (40) All are pharmacogenetic conditions, except
- a) Adenosine deaminase deficiency
- c) Coumarin insensitivity
- (41) The following are contraindicated in pregnancy except
- a) Sodium nitroprusside
- c) Spironolactone
- (42) The yield of the antibiotic depends upon?
- a) Age of the inoculum
- c) Composition of the medium
- (43) Antibiotics are used to treat infections by
- a) Virus
- c) All the microorganisms
- (44) After the fermentation process, penicillin is recovered as?
- a) Penicillin
- c) Calcium penicillin
- (45) The high yield of chlortetracycline requires
- a) No aeration
- c) Continuous aeration
- (46) Which of the following seeds are used for the inoculum preparation for the fermentation medium for penicillin?
- a) Rice seeds
- c) Wheat seeds
- (47) Which of the following antibiotics are most likely responsible for hypotension, itching and other side effects?
- d) Phenytoin
- b) Cleft lip and cleft palate
- d) Scalp defects
- b) Enalapril
- d) Acetazolamide
- b) Affinity
- d) Hydrophobicity
- b) Half life
- d) Loading dose
- b) A constant proportion of plasma concentration is eliminated
- d) Clearance decreases with dose
- b) Malignant hyper-pyrexia
- d) None of these
- b) Labetalol
- d) ACE inhibitors
- b) Only the pH of the medium
- d) All of these
- b) Bacteria
- d) None of these
- b) Sodium penicillin
- d) Potassium penicillin
- b) Controlled aeration
- d) Aeration which does not affect the yield
- b) Corn seeds
- d) Barley seeds

- a) Aztreonam
c) Daptomycin
- b) Vancomycin
d) Linezolid
- (48) What type of side effect is most commonly observed in beta-lactam antibiotics?
a) Hearing loss
c) Allergic reaction
- b) Aplastic anaemia
d) Yellowing of teeth
- (49) Which of the following events occurs during the third phase of growth of *Penicillium chrysogenum*?
a) Autolysis of the medium starts
c) The concentration of antibiotic increases in the medium
- b) Slight rise in pH due to liberation of ammonia
d) All of these
- (50) In Which of the Following Substances is Chlortetracycline Soluble:
a) Water
c) Organic solvents
- b) Ether
d) All of these
- (51) Bacterial Cells Grown in a Medium Exposed to High Osmotic Pressure, Changes Shape from Rod-shaped to _____ shaped.
a) spherical
c) irregular
- b) rod shaped
d) elongated
- (52) Which Among the Following Antibiotics Function as Protein Synthesis Inhibitors:
a) Penicillin
c) Trimethoprim
- b) Tetracycline
d) Cefotaxime
- (53) Which of the Following Antibiotics is Effective in treating oral Candidiasis:
a) Nystatin
c) Bacitracin
- b) Griseofulvin
d) Tetracycline
- (54) The Crystalline Sodium or Potassium Salts are Slightly Soluble in:
a) ether
c) water
- b) dioxane
d) chloroform
- (55) Multiple Drug Resistance is Most Closely Related to Which of the Following:
a) Plasmids
c) Transformation
- b) Viruses
d) Cell chromosome
- (56) Which of the Following Does not Affect the Activity of Penicillin?
a) Hydrochloric acid
c) Cysteine
- b) Bile
d) Sodium hydroxide
- (57) Tyrocidines are More Effective Against Which Organism:
a) Gram-positive organisms
c) Mycoplasmas
- b) Gram-negative organisms
d) Spirochetes
- (58) Which of the Following Statements are True about Penicillin at Acidic pH?
a) Penicillin precipitates
c) Penicillin remains in the solvent phase
- b) Penicillin remains in the aqueous phase
d) All of these
- (59) Which of the following Anti-Epileptic Drugs (AEDs) should be avoided in an ICU patient who is on meropenem for pneumonia?
a) Midazolam
c) Levetiracetam
- b) Sodium Valproate
d) Lacosamide
- (60) Rufinamide is indicated for

- a) Generalized tonic-clonic seizures
- b) Adjunctive treatment of focal epilepsy
- c) Adjunctive treatment of the Lennox-Gastaut Syndrome
- d) Status Epilepticus