



# BRAINWARE UNIVERSITY

**Term End Examination 2021 - 22**

**Programme – Bachelor of Science in Critical Care Technology**

**Course Name – Pharmacology**

**Course Code - BCCT204**

**( 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) Study of drug in humans is termed as?
 

a) Pharmacy	b) Clinical Pharmacology
c) Experimental Pharmacology	d) Toxicology
- (2) Oily injection is preferably given by
 

a) Subcutaneous route	b) Intramuscular route
c) Intravenous route	d) None of these
- (3) ANS is a part of which nervous system
 

a) Central nervous system	b) Somatic nervous system
c) Peripheral nervous system	d) All of these
- (4) What effect occur on the trachea and bronchi during sympathetic stimulation?
 

a) Trachea and bronchi dilate	b) remains constant
c) trachea and bronchi constrict	d) no effect
- (5) Which of the following reaction is not involved in detoxification of drugs?
 

a) Cytochrome oxidase	b) Cytochrome P450
c) Methylation	d) Sulfate conjugation
- (6) Therapeutic index for a drug is a measure of
 

a) Safety	b) Potency
c) Efficacy	d) Toxicity
- (7) Which one of the following antiplatelet is a prodrug?
 

a) Aspirin	b) Dipyridamole
c) Ticlopidine	d) Abciximab

- (8) A highly ionized drug
- a) Is excreted mainly by the kidney
  - b) Can cross the placenta easily
  - c) Is well absorbed from the intestine
  - d) Accumulates in the lipids
- (9) In which of the following phases of clinical trial of drug ethical clearance is not required?
- a) Phase I
  - b) Phase II
  - c) Phase III
  - d) Phase IV
- (10) True about teratogenicity of a drug is all except
- a) It is genetically predetermined
  - b) Environment influences it
  - c) Related to the dose of the teratogenic drug
  - d) Affects especially at a particular phase of development of foetus
- (11) Which is a prodrug?
- a) Enalapril
  - b) Captopril
  - c) Clonidine
  - d) Lisinopril
- (12) Loading dose depends on?
- a) Volume of distribution
  - b) Clearance
  - c) Rate of administration
  - d) Half life
- (13) Good clinical practices (GCPs) are not a part of
- a) Preclinical studies
  - b) Phase I studies
  - c) Phase II studies
  - d) Phase IV studies
- (14) Maternal carbimazole intake causes all except
- a) Choanal atresia
  - b) Cleft lip and cleft palate
  - c) Fetal goitre
  - d) Scalp defects
- (15) 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
  - b) Affinity
  - c) Solubility
  - d) Hydrophobicity
- (16) Which of the following drugs can be safely pre-scribed in pregnancy?
- a) Warfarin
  - b) ACE inhibitors
  - c) Heparin
  - d)  $\beta$  – blockers
- (17) New drug study and development can be done by?
- a) Pharmacogenetics
  - b) Molecular modelling
  - c) Pharmacolibrary
  - d) Neopharmacy
- (18) All are pharmacogenetic conditions, except
- a) Adenosine deaminase deficiency
  - b) Malignant hyper-pyrexia
  - c) Coumarin insensitivity
  - d) None of these
- (19) The lymphocytopenia seen a few hours after administration of a large dose of prednisone to a patient with lymphocytic leukemia is due to
- a) Massive lymphocytic apoptosis
  - b) Bone marrow depression
  - c) Activation of cytotoxic cells
  - d) Stimulation of natural killer cell activity
- (20) In *Penicillium chrysogenum* the maximum antibiotic production occurs during the
- a) The second phase
  - b) The third phase
  - c) First phase
  - d) All of these

- (21) Which of the following fermentation processes is used in the production of penicillin?
- a) Aerobic fermentation followed by anaerobic fermentation      b) Anaerobic fermentation  
c) Aerobic fermentation      d) Anaerobic fermentation followed by aerobic fermentation
- (22) After the fermentation process, penicillin is recovered as?
- a) Penicillin      b) Sodium penicillin  
c) Calcium penicillin      d) Potassium penicillin
- (23) Which of the following species is used for producing streptomycin?
- a) *S. ramosus*      b) *S. griseus*  
c) *S. aureofaciens*      d) *S. griseoflavus*
- (24) What is meant by antibiotic resistance?
- a) It means our body has become resistant to the antibiotic      b) It means the bacteria have developed antibiotic resistance  
c) Both (a) and (b)      d) None of these
- (25) Which of the following species is used for producing tetracycline?
- a) *S. venezuelae*      b) *S. griseus*  
c) *S. aureofaciens*      d) *S. griseoflavus*
- (26) Which of the following antibiotics are most likely responsible for hypotension, itching and other side effects?
- a) Aztreonam      b) Vancomycin  
c) Daptomycin      d) Linezolid
- (27) Which of the following species is used for producing chloromycetin?
- a) *S. ramosus*      b) *S. venezuelae*  
c) *S. griseoflavus*      d) *S. aureofaciens*
- (28) In Which of the Following Substances is Chlortetracycline Soluble:
- a) Water      b) Ether  
c) Organic solvents      d) All of these
- (29) Bacterial Cells Grown in a Medium Exposed to High Osmotic Pressure, Changes Shape from Rod-shaped to \_\_\_\_\_ shaped.
- a) spherical      b) rod shaped  
c) irregular      d) elongated
- (30) Which Among of the Following Antibiotics Act as Folate Antagonist:
- a) Penicillin      b) Tetracycline  
c) Trimethoprim      d) Cefotaxime
- (31) Which Among the Following Antibiotics Function as Protein Synthesis Inhibitors:
- a) Penicillin      b) Tetracycline  
c) Cefotaxime      d) Trimethoprim
- (32) Which of the Following Antibiotics is Effective in treating oral Candidiasis:
- a) Nystatin      b) Bacitracin  
c) Tetracycline      d) Griseofulvin
- (33) Which of the Following Penicillin has Bes Gram Negative Spectrum:
- a) Nafcillin      b) Ampicillin

- c) Methicillin  
d) Penicillin V
- (34) Which of the Following Antibiotics is Most Likely to Cause Depression of the Bone Marrow:  
a) Streptomycin  
b) Penicillin G  
c) Trimethoprim  
d) Amphotericin B
- (35) Benzylpenicillin is the Chemical Name for Which of the Following Penicillin?  
a) Penicillin G  
b) Penicillin V  
c) Penicillin F  
d) Phenethicillin
- (36) Streptomyces Orientalis Produces Which of the Following Antibiotics?  
a) Cephalosporins  
b) Cycloserine  
c) Bacitracin  
d) Vancomycin
- (37) Tyrocidines are More Effective Against Which Organism:  
a) Gram-positive organisms  
b) Gram-negative organisms  
c) Mycoplasmas  
d) Spirochetes
- (38) Streptomycin is Produced by Which of the Following Organisms?  
a) Streptomyces noursei  
b) Streptomyces nodosus  
c) Streptomyces fradiae  
d) Streptomyces griseus
- (39) Which of the Following Statements are True about Penicillin at Acidic pH?  
a) Penicillin precipitates  
b) Penicillin remains in the aqueous phase  
c) Penicillin remains in the solvent phase  
d) All of these
- (40) Which of the following Anti-Epileptic Drugs (AEDs) should be avoided in an ICU patient who is on meropenem for pneumonia?  
a) Sodium Valproate  
b) Levetiracetam  
c) Lacosamide  
d) Midazolam
- (41) All of the following AEDs except one are considered to be enzyme-inducing AEDs  
a) Phenytoin  
b) Carbamazepine  
c) Primidone  
d) Sodium Valproate
- (42) Rufinamide is indicated for  
a) Adjunctive treatment of focal epilepsy  
b) Adjunctive treatment of the Lennox-Gastaut Syndrome  
c) Generalized tonic-clonic seizures  
d) Status Epilepticus
- (43) Fatal cases of aplastic anemia have been reported with use of the following AEDs:  
a) Levetiracetam and Pregabalin  
b) Carbamazepine and Felbamate  
c) Lacosamide and tiagabine  
d) Phenytoin and phenobarbital
- (44) Ethosuximide is indicated for treatment of:  
a) Focal epilepsy  
b) Generalized tonic-clonic seizures  
c) Generalized non-motor (absence) seizures  
d) Unclassified epilepsy
- (45) Chronic dose-related adverse effects of valproate include all of the following except  
a) Weight gain  
b) Hair loss  
c) Peripheral neuropathy  
d) Endocrine and metabolic change
- (46) Antipsychotic drug-induced Parkinsonism is treated by:  
a) Anticholinergics  
b) Levodopa

- c) Selegilin  
d) Amantadine
- (47) All of the following are CNS stimulants except:  
a) Amphetamines  
b) Benzodiazepines  
c) Cocaine  
d) Methylphenidate
- (48) Drug of choice for relapsing-remitting multiple sclerosis is:  
a) a IFN  
b) b IFN  
c) Y IFN  
d) Natalizumab
- (49) Which is the only drug effective in improving EDSS in multiple sclerosis:  
a) Methotrexate  
b) Fingolimod  
c) Glatiramer acetate  
d) Natalizuma
- (50) Which of the following if combined with rivastigmine decreases its efficacy:  
a) Selective serotonin reuptake inhibitors  
b) Reversible inhibitor of MAO-A  
c) Tricyclic antidepressants  
d) Atypical antidepressants
- (51) All of the following statements about trientine use in Wilson's disease are true except:  
a) It is more potent than penicillamine  
b) It is used as an alternative to penicillamine in non-tolerant patient  
c) It should not be administered within 2 hours of iron supplementation  
d) It can cause iron deficiency anemia which is reversible by oral iron supplements
- (52) All the following statements regarding levodopa are correct except:  
a) In parkinsonism, phenothiazines reduce its efficacy  
b) It is a prodrug  
c) Pyridoxine reduces the effect of levodopa in parkinsonism  
d) Domperidone blocks levodopa-induced emesis and its therapeutic potential
- (53) A patient of parkinsonism is managed with levodopa. If the vitamin B complex is administered concurrently to the patient:  
a) The action of levodopa in the brain will be potentiated  
b) Decarboxylation of l-dopa in the brain will be decreased  
c) Side effects will be ameliorated  
d) Decreased efficacy will result
- (54) Which of the following statements is FALSE regarding drugs used in the treatment of parkinsonism:  
a) Amantadine causes ankle edema  
b) Levodopa is effective in reducing tremors  
c) Amantadine is more effective than levodopa  
d) Anti-muscarinic agents are effective in drug-induced parkinsonism
- (55) Drugs causing parkinsonism include:  
a) Bromocriptine  
b) Phenothiazine  
c) Haloperidol  
d) Carbidopa
- (56) Drug of choice in drug-induced parkinsonism is:  
a) Levodopa  
b) Benhexol  
c) Amantadine  
d) Carbidopa
- (57) Anti-parkinsonism drug that is a selective COMT inhibitor:  
a) Entacapone  
b) Ropinirole  
c) Pergolide  
d) Pramipexole
- (58) Mechanism of action of donepezil is:  
a) Centrally acting reversible anticholinesterase  
b) Centrally acting irreversible anticholinesterase

c) Irreversible cholinergic action

d) Reversible acetylcholinesterase

(59) Which drug is not used in Alzheimer's disease:

a) Memantine

b) Galantamine

c) Ropinirole

d) Donepezil

(60) Which of the following is/are properties of heart?

a) Automaticity

b) Conductivity

c) Rhythmicity

d) All of these