



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22
Programme – Master of Science in Microbiology
Course Name – Pharmaceutical Microbiology
Course Code - MMB204
(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) Benzylpenicillin is the chemical name for which of the following penicillin?

| | |
|----------------|------------------|
| a) PenicillinG | b) PenicillinV |
| c) PenicillinF | d) Phenethicilin |
- (2) Polymyxins inhibits the growth of the microbes by carrying out which of the following actions?

| | |
|-----------------------------------------------------|------------------------------------------|
| a) inhibition of cell-wall synthesis, | b) damage the cytoplasmic membrane |
| c) inhibition of nucleic acid and protein synthesis | d) inhibition of specific enzyme systems |
- (3) Which of the following inhibits protein synthesis by combining with the 50S subunit ribosome?

| | |
|---------------------|-----------------|
| a) Streptomycin. | b) Tetracycline |
| c) Chloramphenicol. | d) Penicillin |
- (4) Which one of the following antibiotic is an example of aminoglycosides?

| | |
|------------------|---------------------|
| a) Tetracycline. | b) Chloramphenicol. |
| c) Bacitracin. | d) Kanamycin |
- (5) Lactam ring is absent in

| | |
|-----------------|------------------|
| a) Monobactams. | b) Cephalosporin |
| c) Penicillin. | d) Neomycin |
- (6) Drug is metabolised by hydrolysis in..

| | |
|--------------|--------------------|
| a) Phenytoin | b) Chloramphenicol |
| c) Procaine | d) none |
- (7) Morphine is excreted through

| | |
|-----------|------------------|
| a) Saliva | b) Faecal matter |
| c) Lungs | d) Urine |
- (8) The amount of total body water is..

- c) Arsenic. d) Morphin
- (38) Passive tubular absorption depends on
 a) Temperature b) degree of non ionization.
 c) degree of ionization d) None
- (39) Physical action of drug is
 a) demulcent. b) Chemical action
 c) Enzyme.. d) none
- (40) The drug that have very high molecular weight can not cross placenta
 a) Penicillin. b) Morphin.
 c) Digoxin. d) tubocurarin
- (41) The amount of transcellular fluid in body is
 a) 2000 ml b) 500 ml.
 c) 12000 ml. d) 1000 ml.
- (42) Which of the following statement is wrong wrt low V_d drug/
 a) Low molecular weight. b) bound to protein.
 c) largely restricted to vascular component. d) nil
- (43) Volume of ECF in human is
 a) 14L b) 23L
 c) 25L d) 30
- (44) JAK-STAT is an example of
 a) Transmembrane receptors b) GPCR
 c) Ligand gated d) None
- (45) In transmembrane receptor protein which amino acid is phosphorylated?
 a) Tryptophan b) Tyrosin
 c) Methionine d) Alanine
- (46) Preservative must be
 a) Physically unstable b) irritant
 c) Chemically unstable d) Non-Toxic
- (47) High plasma protein binding
 a) Minimise drug interactions b) Facilitates glomerular filtration of the drug
 c) Generally makes the drug long acting
- (48) A prodrug is:
 a) An inactive drug that is transformed in the body to an active metabolite b) An inactive drug that is transformed in the body to an active metabolite
 c) The oldest member of a class of drugs d) A drug that is stored in body tissues and is then gradually released in the circulation
- (49) Which of the following drying method is used in pharma industry for drying of soft gelatin capsule?
 a) Vacuum drying b) Truck drying
 c) Fluid bed drying d) Microwave drying
- (50) Evaluation of colour in tablets is done by
 a) Reflectance spectrophotometer b) Tristimulus colorimeter
 c) Microreflectance photometer d) All
- (51) Among the given lubricants which is not used in oral tablets
 a) Talc b) Magnesium stearate

- c) Boric acid
d) None
- (52) The disintegration time of the Soft capsules is
a) 15 minutes
b) 30 minutes
c) 45 minutes
d) 60 minutes
- (53) The far vacuum ultraviolet region of electromagnetic spectrum ranges from
a) 10-200 mμ
b) 200-400 mμ
c) 10-300 mμ
d) 10-150 mμ
- (54) The most commonly used source for UV radiation is
a) tungsten filament incandescent
b) Quartz-iodine lamp
c) Hydrogen discharge lamp
d) None
- (55) In the tablet coating process, inadequate spreading of the coating solution before drying causes
a) Mottling
b) Blistering effect
c) Orange peel effect
d) None
- (56) During compression of moisture critical granules a hygroscopic substance used to maintain a proper moisture level is
a) Sorbitol
b) Talc
c) Acacia
d) Acacia
- (57) Which one of the following is not an example of G-protein coupled receptor?
a) Muscarinic cholinergic receptor
b) Beta adrenoceptor
c) Alpha adrenoceptor
d) Nicotinic cholinergic receptor
- (58) Which of the following is a laxative antacid
a) Fe-salt
b) Al-salt
c) Mg-salt
d) Ca-salt
- (59) Enteric coating is achieved by using
a) hydroxy propyl methyl cellulose
b) Polyethylene glycol
c) Carboxy methyl cellulose
d) Cellulose acetate Phthalate
- (60) The Pure Food and drug Act was introduced in the year
a) 1906
b) 1930
c) 1950
d) 1940