

Sl. No. :

DJCP/19

Register  
Number

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2019

**CLINICAL PHARMACOLOGY  
(PG Degree Std.)**

Time Allowed : 3 Hours]

[Maximum Marks : 300

Read the following instructions carefully before you begin to answer the questions.

**IMPORTANT INSTRUCTIONS**

1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
2. This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. **In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.**
3. Answer all questions. All questions carry equal marks.
4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
6. You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
7. Each question comprises *four* responses (A), (B), (C) and (D). You are to select **ONLY ONE** correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
8. In the Answer Sheet there are **four** circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen **ONLY ONE** circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. *e.g.* If for any item, (B) is the correct answer, you have to mark as follows :  

(A) ● (C) (D)
9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
10. **Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.**
11. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

SEAL

SPACE FOR ROUGH WORK

10101000

1. Alkaline diuresis is done for treatment of poisoning due to
- (A) morphine (B) amphetamine  
 (C) phenobarbitone (D) atropine
2. Low  $V_d$  means
- (A) the drug has low half life  
 (B) the drug does not accumulate in tissues  
(C) the drug has low bioavailability  
(D) the drug has weak plasma protein binding
3. Factors affecting absorption are
- (A) aqueous solubility  
(B) area of absorbing surface  
(C) vascularity  
 (D) all of the above
4. Device which produce a mist of the drug solution generated by pressurised air
- (A) metered dose inhaler (B) spinhaler  
 (C) jet nebulizer (D) rotahaler
5. Which parental route of administration has 100% bioavailability
- (A) intravenous (B) intramuscular  
(C) subcutaneous (D) intradermal
6. The chief advantage of the sublingual route is
- (A) Only lipid soluble, non irritating drugs can be administered  
(B) Action produced in minutes  
 (C) By passes the liner  
(D) Relatively rapid absorption

7. Carbenicillin and Anti-platelet drug use results in
- (A) Platelet count ↓
  - (B) Increases risk of bleeding
  - (C) Stops bleeding
  - (D) No effect
8. Nocebo produces
- (A) Positive pharmaco dynamic effect
  - (B) Positive pharmaco kinetic effect
  - (C) Negative pharmaco dynamic effect
  - (D) Negative pharmaco kinetic effect
9. G<sub>6</sub> P.D. deficiency is due to
- (A) X linked trait
  - (B) Y linked trait
  - (C) Z linked trait
  - (D) X and Y linked trait
10. Malignant hyperthermia after halothane is due to rebase if
- (A) K. channel
  - (B) Ca<sup>2+</sup> channel
  - (C) Na<sup>+</sup> channel
  - (D) NaHCO<sub>2</sub> channel
11. What is pharmacogenetics?
- (A) Variability in drug response
  - (B) Peak drug response
  - (C) Nullifural drug response
  - (D) Low drug response

12. Choose the antiepileptic drug is indicated in refractory partial seizures and produces metabolic acidosis and renal stones  
 (A) Topiramate (B) Levetiracetam  
 (C) Pregabalin (D) Zonisamide
13. Choose the antipsychotic drug which causes retinal deposits (Browning of vision) a  
 (A) Thioridazine (B) Chlorpromazine  
 (C) Clozapine (D) Haloperidol
14. Pick the correct statement from the following on Alzheimer's disease  
 (A) Donepezil overdose is associated with tachycardia  
 (B) Rivastigmine acts through NMDA receptors  
 (C) Associated depression in Alzheimers disease is treated with tricyclic antidepressants  
 (D) Donepezil can slow down the progression of mild and moderate Alzheimer's disease for atleast 2 years
15. Choose the statement which is incorrect about Atypical antidepressants  
 (A) Bupropion sustained release formulation is marketed to treat smoking deaddiction  
 (B) Sexual dysfunction is not a problem with the use of mirtazapine  
 (C) Trazodone causes tachycardia and Arrhythmias  
 (D) Venlaxaxine does not interact with cholinergic, adrenergic and histaminergic receptors
16. Select a drug from the following which has been used to produce a non specific 'awakening' effect in hepatic coma  
 (A) Promethazine (B) Levodopa  
 (C) Carbidopa (D) Amantadine
17. Choose the antipsychotic drug with least sedative extrapyramidal side effects  
 (A) Ziprasidone (B) Haloperidol  
 (C) Loxapine (D) Quetiapine
18. Match the following and choose the correct set of answers
- |                |  |
|----------------|--|
| (a) Lacosamide | 1. Carbonic anhydrase inhibitor                    |
| (b) Perampanel | 2. GABA transaminase inhibitor                     |
| (c) Vigabatrin | 3. Gaba transaminase transporter (GAT-1) inhibitor |
| (d) Tiagabine  | 4. AMPA antagonist                                 |
|                | 5. Na channel blocker                              |
- |       |     |     |     |
|-------|-----|-----|-----|
| (a)   | (b) | (c) | (d) |
| (A) 5 | 2   | 1   | 4   |
| (B) 3 | 5   | 4   | 1   |
| (C) 5 | 4   | 2   | 3   |
| (D) 2 | 1   | 5   | 3   |

19. Choose the most potent of all the synthetic fentanyl opioid agonists?
- (A) Alfentanil
  - (B) Remifentanil
  - (C) Sufentanil
  - (D) Fentanyl
20. Which combination of drugs are used for rapid opioid detoxification?
- (A) IV naloxone + Oral methadone
  - (B) Naltrexone + Buprenorphine
  - (C) Benzodiazepines + disulfiram
  - (D) Clonidine + Methadone
21. Identify the centrally acting analgesic that has low affinity for  $\mu$ ,  $k$ ,  $d$  receptors and inhibits the reuptake of NA and 5-HT.
- (A) Tramadol
  - (B) Methadone
  - (C) Butorphanol
  - (D) Buprenorphine
22. Choose the exceptionally long acting antipsychotic drug which is administered once weekly for chronic schizophrenia
- (A) Chlorpromazine
  - (B) Haloperidol
  - (C) Thioridazine
  - (D) Penfluridol
23. Choose the short acting highly sedating atypical antipsychotic that is NOT effective in treating negative symptoms of schizophrenia
- (A) Olanzapine
  - (B) Quetiapine
  - (C) Clozapine
  - (D) Risperidone



24. Choose the unique Atypical Antidepressant drug which blocks presynaptic  $\alpha_2$  receptors but does not inhibit NA or 5-HT uptake
- (A) Venlafaxine (B) Trazodone  
 (C) Mianserin (D) Duloxetine
25. Identify the antidepressant drug which is not a selective serotonin reuptake inhibitor and improves cognition in depressed patients
- (A) Citalopram  
 (B) Vortioxetine  
(C) Sertraline  
(D) Paroxetine
26. Select the drug approved for the treatment for fibromyalgia and major depression
- (A) Buspirone (B) Pregabalin  
(C) Gabapentin  (D) Milnacipran
27. Which antidepressant is indicated in stress incontinence in women and also in diabetic neuropathic pain
- (A) Duloxetine  
(B) Mianserin  
(C) Venlafaxine  
(D) Mirtazapine
28. Choose the selective Noradrenaline (NA) reuptake inhibitor approved for the only in attention deficit hyperactivity disorder (ADHD)
- (A) Bupropion (B) Amineptine  
(C) Trazodone  (D) Atomoxetine
29. Choose the cerebro selective reversible Anti-AChE (Acetyl Cholinesterases) which has a long half life (70 hrs.) used in severe Alzheimer's disease
- (A) Galantamine  
 (B) Donepezil  
(C) Rivastigmine  
(D) Memantine

30. The following are used as nerve gases except
- (A) Taliun
  - (B) Dyflos
  - (C) Soman
  - (D) Sarin
31. Acetylcholine is not used commercially because
- (A) Long duration of action
  - (B) costly
  - (C) Rapidly destroyed in the body
  - (D) Crosses blood main barrier
32. A Non anticholinergic smooth muscle antispasmodic acts by inhibiting PDE-4 receptor is
- (A) Darifenacin
  - (B) Flavoxate
  - (C) Solifenacin
  - (D) Drotaverine
33. The drug that is contraindicated in angle closure glaucoma is
- (A) Pilocarpine
  - (B) Atropine
  - (C) Timolol
  - (D) Dorzolamide
34. Which is not an endogenous catecholaminis
- (A) Dopamine
  - (B) Adrenaline
  - (C) Nor adrenaline
  - (D) Dobutamine



35. Isosorbide dinitrate is an Antianginal drug. During heart attack it can be used?
- (A) Sublingually
  - (B) Rectally
  - (C) Intravenously
  - (D) Intra muscularly
36. An ischaemic necrosis of a portion of the myocardium due to sudden occlusion of a branch of coronary artery is called as
- (A) Angina Pectoris (AP)
  - (B) Cardiac Arrhythmia (CA)
  - (C) Congestive Cardiac Failure (CCF)
  - (D) Myocardial infarction (MI)
37. Toxicity of digitalis is high, margin of safety is low. What is the antidote for tachy arrhythmias due to digitalis toxicity?
- (A) Potassium Chloride
  - (B) Calcium Chloride
  - (C) Magnesium Chloride
  - (D) Sodium Chloride
38. An antiarrhythmic agent which is also used a calcium channel blocker is
- (A) Verapamil
  - (B) Quinidine
  - (C) Procainamide
  - (D) Propranolol
39. Which of the following is preferred the Hypertension with Diabetic nephropathy to prevent or delay end-stage renal disease?
- (A) Beta blockers
  - (B) Calcium channel blockers
  - (C) Alpha blockers
  - (D) ACE inhibitors
40. Identify the Bradykinin  $\beta_2$  receptor antagonist.
- (A) Icatibant
  - (B) Bosentan
  - (C) Macitentan
  - (D) Ambrisentan

41. Which of the following is not used in the treatment of pulmonary hypertension?
- (A) Calcium channel blockers
  - (B) Alpha blockers
  - (C) Prostacyclin
  - (D) Endothelin receptor antagonists
42. Which of the following calcium channel blockers would be useful in the treatment of supraventricular tachycardia by suppressing AV node conduction?
- (A) Amlodipine
  - (B) Nimodipine
  - (C) Verapamil
  - (D) Nifedipine
43. An antihypertensive drug having beneficial or neutral role in lipid metabolism.
- (A) Prazosin
  - (B) Thiazide
  - (C) Propranolol
  - (D) Furasemide
44. Which drug has a property of rheological action rather than vasodilation to be responsible for improving passage of blood through micro circulation?
- (A) Cilostazol
  - (B) Xanthinol
  - (C) Cyclandelate
  - (D) Pentoxiphylline
45. A suitable estrogen antagonist is
- (A) Clomiphene citrate
  - (B) Mifepristone
  - (C) Flutamide
  - (D) Cyprotesone
46. The half life of Iodine - 131 is
- (A) 8 days
  - (B) 80 days
  - (C) 10 days
  - (D) 12 days

47. The dose of iodine that causes fatal effect is  
(A) 1 - 2 grams (B) 2 - 3 grams  
 (C) 3 - 4 grams (D) 0.5 - 1 gram
48. Thyrotoxicosis causes  
(A) Odema of the foot  
(B) Myxoedema  
(C) Cretinism  
 (D) Nodular goitre
49. Infertility in men is induced by  
(A) Vitamin C (B)  Gossypol  
(C) Estrogen (D) Antibiotics
50. Gluconeogenesis is promoted by  
 (A) Glucocorticoids (B) Insulin  
(C) Oral hypoglycemic agents (D) Food intake
51. The plasma half life of Glipizide is  
(A) 1 - 2 hrs (B) 2 - 4 hrs  
 (C) 3 - 5 hrs (D) 6 - 7 hrs
52. A bulk laxative from plant origin  
 (A) Ispaghula (B) Aloe gel  
(C) Castor oil (D) Sennosides
53. The  $t_{1/2}$  of heparin is reduced in patients with \_\_\_\_\_ condition  
(A) Cirrhosis of the liver  
(B) Kidney malfunction  
 (C) Pulmonary embolism  
(D) Gall bladder dip function

54. A synthetic disaccharide having osmotic purgative action is
- (A) Naltrexone
  - (B) Lactose
  - (C) Lactulose
  - (D) Bisacodyl
55. The antacid that causes diarrhoea is
- (A) Magnesium trisilicate
  - (B) Aluminium silicate
  - (C) Aluminium hydroxide
  - (D) Sodium bicarbonate
56. Identify a stimulant purgative
- (A) Emodin
  - (B) Psyllium husk
  - (C) Metoclopramide
  - (D) Cisapride
57. The reason for the action of hepani in cleaning the turbid plasma is
- (A) Releases bradikinin
  - (B) Releases lipoprotein lipase
  - (C) Releases histamine
  - (D) Release hexokinase
58. Which of the following is given for the treatment of iron poisoning
- (A) EDTA
  - (B) Desferrioxamine
  - (C) Charcoal
  - (D) I - V - Fluids
59. Which one of the following is used as Bile acid requerterant
- (A) Simavastatin
  - (B) Cholertyramine
  - (C) Fenofibrate
  - (D) Nicotinic acid

60. Inflammation in the airways can be reduced by
- (A) Fluticasone
  - (B) Salbutamol
  - (C) Ipratropium
  - (D) Theophylline
61. Bronchodilator of choice in COPD is
- (A) Inhaled anticholinergics
  - (B)  $\beta_2$  Agonists
  - (C) Antihistaminics
  - (D) Methylxanthina
62. Which of the following drug can be administered by subcutaneous route?
- (A) Albuterol
  - (B) Terbutaline
  - (C) Pirbuterol
  - (D) Metaproterenol
63. The following are new ultra long acting selecting  $\beta_2$  agonists used in COPD except
- (A) Albuterol
  - (B) Indacaterol
  - (C) Olodaterol
  - (D) Vilanterol
64.  $H_1$  antihistamines afford relief in cough due to their following actions except
- (A) Sedative
  - (B) Anticholinergic action
  - (C) Suppresses cough centre
  - (D) Lack suppression of cough centre

65. Analgesic dose of sepirin is
- (A) 0.2 to 0.4 gm 6 – 8 hrly
  - (B) 0.3 to 0.6 gm 6 – 8 hrly
  - (C) 0.2 to 0.3 gm 6 – 8 hrly
  - (D) 0.6 to 0.8 gm 6 – 8 hrly
66. Travoprost is
- (A) PGF<sub>2</sub>  $\alpha$  analogue
  - (B) PGE<sub>2</sub> analogue
  - (C) PGI<sub>2</sub> analogue
  - (D) PGE<sub>1</sub> analogue
67. Therapeutic uses of PGE<sub>1</sub> include all of the following EXCEPT
- (A) Medical Termination of Pregnancy
  - (B) Primary Pulmonary hypertension
  - (C) Impotence
  - (D) Maintenance of patent ductus arteriosers
68. Among the B adrenergic blocker which is most commonly used in prophylaxis is migraine
- (A) Timolol
  - (B) Atenolol
  - (C) Propranolol
  - (D) Metaprolol
69. Serotonin can be synthesized from
- (A) Dopa
  - (B) Tryptophan
  - (C) Tyrosine
  - (D) Epinephrin
70. The newer H<sub>1</sub> blocker having good topical activity is
- (A) Levo cetirizine
  - (B) Ebastine
  - (C) Azelastine
  - (D) Desloratadine



71. Newer uricosuric drug approved for hyper uricemia  
(A) Sulfipyrazone  
 (B) Lesinurad  
(C) Prohenicid  
(D) Rashuricase
72. Which of the following is not an Antioxidant vitamin?  
(A) Vit. E  
 (B) Vit. K  
(C) Vit. C  
(D) Vit. A
73. Gastric lavage is contraindicated in which type of poisoning  
(A) Morphine  
(B) Organophosphorus  
 (C) Acid  
(D) Datura
74. Which Vitamin is added in the infusion to treat neurological symptoms of alcoholics?  
 (A) Thiamine  
(B) Niacin  
(C) Riboflavin  
(D) Retinol
75. Which of the following is used as a Antiseborrheic agent  
 (A) Selenium sulfide (B) Psoralen  
(C) Methoxsalen (D) Trioxsalen
76. Which is a newer synthetic tretinoin like drug  
(A) Acitretin (B) Tazorotene  
(C) Retinoic acid  (D) Adapalene

77. Mode of action of Digoxin-specific antibody fragments in Digitalis poisoning is
- (A) Vagal Block accelerates heart rate
  - (B) Bypasses block in metabolism
  - (C) Chelates to form non-toxic metabolites.
  - (D) Binds free glycoside in plasma, excreting complex in urine
78. Keratolytic agent obtained from Mandrake root used in the treatment of condyloma acuminatum and other verrucae is
- (A) Podophyllum
  - (B) Propyleneglycol
  - (C) Flurouracil
  - (D) Salicylic acid
79. Nutraceutical commercially derived from crabs and other crustaceans primarily used for pain associated with osteoarthritis.
- (A) Co-enzyme Q10
  - (B) Melatonin
  - (C) Glucosamine
  - (D) Hydroxy citric acid
80. Which of the following protein Tyrosine kinase inhibitor targets to HER2/neu receptor in breast cancer cells.
- (A) Imatinib
  - (B) Dasatinib
  - (C) Nilotinib
  - (D) Lapatinib
81. Which drug targets EGFR in colorectal carcinoma.
- (A) Trastuzumab
  - (B) Cetuximab
  - (C) Edrecolomab
  - (D) Ibritumanab
82. Which prevents severe thrombocytopenia and decreases the need for platelet transfusion in cancer patients
- (A) Filgrastim
  - (B) Oprelvekin
  - (C) Sargramostin
  - (D) Eboetin

83. The most common mechanism of development of resistance to fluoroquinolones is
- (A) chromosomal mutation altering affinity of target site
  - (B) plasmid transfer
  - (C) acquisition of drug destroying enzyme
  - (D) acquisition of alternative metabolic pathway
84. The tetracycline with highest antileprotic activity is
- (A) Minocycline
  - (B) Doxy cycline
  - (C) Declocycline
  - (D) Oxytetracycline
85. The mechanism of action of chloroquin is
- (A) Preerythrocytic schizonticide for both *P. falciparum* and *P. vivax*
  - (B) Erythrocytic schizonticide for both *P. falciparum* and *P. vivax*
  - (C) Exoerythrocytic schizonticide for *P. vivax*
  - (D) Gametocidal for *P. falciparum*
86. Which of the following drug is suitable for the treatment of malaria during pregnancy?
- (A) Quinine
  - (B) Chloroquine
  - (C) Pyrimethamine
  - (D) Primaquine
87. The following anthelmintic has been found to be safe during pregnancy
- (A) Thiabendazole
  - (B) Piperazine
  - (C) Albendazole
  - (D) Pyrantel pamoate

88. An alkaloid obtained from cinchona bark, and used to treat malaria is
- (A) strychnine
  - (B) brucine
  - (C) atropine
  - (D) quinine
89. Which of the following Anti Retroviral drug inhibits CCR5?
- (A) Enfuvirtide
  - (B) Raltegravir
  - (C) Beririmat
  - (D) Maraviroc
90. Zidovudine (AZT) belongs to the class of
- (A) Anti Viral drugs
  - (B) Anti protozoal drugs
  - (C) Anti fungal drugs
  - (D) Anti bacterial drugs
91. Select the antibacterial mechanism of action of Erythromycin
- (A) Inhibition of protein synthesis
  - (B) Disruption of cell wall
  - (C) DNA gyrase inhibition
  - (D) Topoisomerase inhibition
92. Select the third generation cephalosporin that can be used only by parenteral route
- (A) cefpodoxime proxetil
  - (B) ceftizoxime
  - (C) ceftibuten
  - (D) cefixime
93. Which one of the following antibiotic is broad spectrum antibiotic?
- (A) carbenicillin
  - (B) tetracycline
  - (C) clarithromycine
  - (D) gentamicin

94. Anticancer drug causing SIADM as an adverse affect
- (A) Vincristine
  - (B) Vinblastine
  - (C) Dacarbozine
  - (D) Cyclophosphamide
95. The mechanism of action of Etoporide is
- (A) Arrest cell cycle at Gz phase, by interacting with topoisomerase-1
  - (B) Arrest cells in the Gz phase, causes DNA breaks, by affecting topoisomerase-2
  - (C) Block the conversion of Dihydrofolic acid to tetrahydrofolic acid
  - (D) Binds to  $\beta$ -tubulin and interfere with organisation into microtubules
96. Synthesis of bacterial cell wall is inhibited by
- (A) Quinolones
  - (B) Sulfonamides
  - (C) Napthaquinones
  - (D)  $\beta$ -lactum antibiotics
97. The half-life of isoniazid in fast acetylators is
- (A) 2 hours
  - (B) 1 hour
  - (C) 8 hours
  - (D) 3 hours
98. A macrolide antibiotic having significant activity against mycobacterium lepral is
- (A) Clarithromycin
  - (B) Minocycline
  - (C) Rifampicin
  - (D) Clofazimine

99. With which 'Heat shock protein' is glucocorticoid receptor associated
- (A) H.S.P.60  (B) H.S.P.90  
 (C) H.S.P.45 (D) H.S.P.80
100. Therapeutic index is calculated using the formula
- (A)  $\frac{LD_{100}}{ED_{100}}$   (B)  $\frac{LD_{50}}{ED_{50}}$   
 (C)  $LD_{50} \times ED_{50}$  (D)  $ED_{50} - LD_{50}$
101. Interdose interval depends on
- (A) half life of drug (B) dose of drug  
 (C) age of patient (D) bioavailability of drug
102. In a patient with nephrotic syndrome and hypo albuminemia protein binding of which drug will not be affected
- (A) Tolbutamide  (B) Morphine  
 (C) Diazepam (D) Valproate
103. Which of the following drug is an inhibition of cytochrome pyro enzymes
- (A) ketoconazole (B) rifampicin  
 (C) phenytoin (D) phenobarbitone
104. What is the rationale behind xenobiotic metabolism by CYP enzyme?
- (A) increase in water solubility  
 (B) increase in lipid solubility  
 (C) conversion to an active metabolite  
 (D) makes it suitable to evaporate through skin surface
105. Transporters serve to limit foetal exposure to maternally administered drug except
- (A) OATP (B) P-gp  
 (C) BCRP (D) MRP<sub>3</sub>



106. The following are true about glycosides except
- (A) Cardiac glycosides
  - (B) Anthraquinone
  - (C) Non sugar moiety linked to a sugar moiety through ester linkage
  - (D) Amino glycosides
107. Acute toxicity studies are observed for
- (A) 4 – 7 days
  - (B) 1 – 3 days
  - (C) 9 – 11 days
  - (D) 12 – 15 days
108. What is Reinforcement?
- (A) Drug seeking behaviour
  - (B) Drug avoiding behaviour
  - (C) Drug ignoring behaviour
  - (D) Drug blunt behaviour
109. Drug having a wide safety margin is
- (A) Digoxin
  - (B) Lithium
  - (C) Amino glycoside antibiotic
  - (D) Penicillium
110. T.C.A and Adrenaline (added to local anaesthetic)
- (A) Decreased neuronal inhibition
  - (B) Potention of Neuronal update excess
  - (C) Potention of Blood pressure
  - (D) Decrease in pulse rate
111. Crystalline drug is packed in tubes made of suitable materials and implanted under the skin, for hormones and contraceptives this is
- (A) Pellet implantation
  - (B) Sialistic
  - (C) Intramuscular
  - (D) Intravenous

112. The activities involved in pharmaco vigilance
- (A) Post marketing surveillance
  - (B) Pre marketing surveillance
  - (C) Animal study surveillance
  - (D) No surveillance
113. What are orphan drugs?
- (A) Drugs which are efficacious at very high doses only
  - (B) Drugs that are expensive to manufacture as being not profitable
  - (C) Drugs having narrow therapeutic window
  - (D) Drugs which are of questionable therapeutic efficacy
114. Which is not considered significant in calculating paediatric dosing
- (A) Age
  - (B) Sex
  - (C) Body weight
  - (D) Body Mass index
115. Which drug is preferred in hypertensive emergency during pregnancy?
- (A) Alphas-methyl dopa
  - (B) Labetalol
  - (C) Furosemide
  - (D) Nifedipine
116. Which of the following prevents premature labour?
- (A) Ritodrine
  - (B) Misoprostol
  - (C) Ergot
  - (D) Oxytocin
117. Which of the following does not need written consent to avoid teratogenicity in reproductive age?
- (A) Retinoids
  - (B) Thalidomide
  - (C) Methotrexate
  - (D) Carbamazepine

118. Which of the following opioids is the best choice for the treatment of diabetic neuropathy?
- (A) Codeine
  - (B) Morphine
  - (C) Tapentadol
  - (D) Methadone
119. Concentration dependent hypotension produced by inhaled anaesthetics is best treated with
- (A) Dantrophene
  - (B) Adrenaline
  - (C) Ephedrine
  - (D) Phenylephrine
120. Choose the drug to be avoided in combination with selegiline MAO-B inhibitor
- (A) Carbidopa
  - (B) Morphine
  - (C) Meperidine
  - (D) Levodopa
121. Find the drug which causes (Bruxism) (trismus)
- (A) Gabapentin
  - (B) MDMA (methylene dioxy methamphetamine)
  - (C) Cathinones
  - (D) Pregabalin
122. Choose the non CNS stimulant drug used in the treatment of Attention deficit hyper activity disorder
- (A) Methyl phenidate
  - (B) Atomoxetine
  - (C) Lisdexamphetamine
  - (D) Modafinil

123. Pick the incorrect statement from the following actions of lithium
- (A) Lithium inhibits the supply of free inositol intracellularly
  - (B) Lithium is a small monovalent cation
  - (C) Lithium stimulates ADH action on the distal tubules of kidney
  - (D) Leucocyte count is increased by lithium
124. Which antiparkinsons drug produces yellow orange colour discoloration of urine?
- (A) Amantadine
  - (B) Entacapone
  - (C) Rasagiline
  - (D) Carbidopa
125. Point out the wrong statement in the following statements :
- (A) Morphine increases pain threshold
  - (B) Morphine increases monosynaptic responses leading to convulsions
  - (C) Morphine induces sleep more commonly in the elderly than young
  - (D) Tolerance develops rapidly to miosis and constipation actions of morphine
126. Which of the following is incorrectly paired?
- (A) Diazepam – GABA<sub>A</sub> receptors
  - (B) Clonidine – NMDA receptor
  - (C) Ketamine – NMDA receptor
  - (D) Baclofen – GABA<sub>B</sub> receptor
127. Consider the following statements :
- Assertion [A] : Trazodone is commonly used off-label for the management of insomnia
- Reason [R] : Trazodone blocks 5-HT<sub>2</sub> receptors
- (A) Both [A] and [R] are true and [R] is the reason for [A]
  - (B) Both [A] and [R] are true and [R] is the not the correct reason for [A]
  - (C) [A] is true but [R] is false
  - (D) Both [A] and [R] are false
128. Point out the wrong statement regarding Varenicline
- (A) It is a partial agonist at nicotinic receptors in CNS
  - (B) It produces more suicidal thoughts, nightmares and mood changes
  - (C) It is a complete antagonist at the neuronal nicotinic receptors
  - (D) It produces less Euphoric effects
129. Match the following :
- |                     |  |
|---------------------|--|
| (a) Methyl phemdate | 1. Shift work disorder                     |
| (b) Theophylline    | 2. Alzheimers disease                      |
| (c) Modafinil       | 3. Apnoea in premature infants             |
| (d) Galantamine     | 4. Attention deficit hyperkinetic disorder |
- |   |     |     |     |
|---|-----|-----|-----|
| (a)                                       | (b) | (c) | (d) |
| (A) 1                                     | 3   | 2   | 4   |
| <input checked="" type="checkbox"/> (B) 4 | 3   | 1   | 2   |
| (C) 3                                     | 4   | 2   | 1   |
| (D) 2                                     | 1   | 4   | 3   |

130. Which of the following drugs produces dissociative anaesthesia
- (A) Nitrous oxide
  - (B) Etomidate
  - (C) Ketamine
  - (D) Diazepam
131. Inhibition of  $\text{Na}^+\text{k}^+$  ATPase and enhanced force of contraction is the action mechanism of
- (A) Digoxin
  - (B) Propranolol
  - (C) Nifedipine
  - (D) Alpha methyl dopa
132. Toxin which induces massive release and depletion of acetylcholine is
- (A) Botulinum toxin
  - (B) Tetrodotoxin
  - (C) Saxitoxin
  - (D) Black widow spider toxin
133. A 24 years old farm worker is rushed to a nearby emergency department after an accidental exposure to parathion which of the following drugs can be given to increase the activity of his acetyl cholinesterase.
- (A) Atropine
  - (B) Pralidoxine
  - (C) Dimercaprol
  - (D) Physostigmine
134. Atropine is useful in which type of mushroom poisoning
- (A) Muscarine type
  - (B) Hallucinogenic type
  - (C) Phalloidin type
  - (D) All of the above

135. Selective Agonist of  $\beta_3$  receptor is
- (A) Salbutamol
  - (B) Terbutaline
  - (C) Dobutamine
  - (D) Mirabegron
136. Tachyphylaxis is seen after the use of
- (A) Tamoxifen
  - (B) Ephedrine
  - (C) Morphine
  - (D) Chlorpromazine
137. Beta blocker without local anaesthetic effect is
- (A) Metoprolol
  - (B) Pindolol
  - (C) Timolol
  - (D) Propranolol
138. Alpha<sub>1</sub> blocker without any effect on blood pressure is
- (A) Jamsulosin
  - (B) Prazosin
  - (C) Doxazosin
  - (D) Terazosin
139. Which one of the following Antihypertensive drugs belong to the class diuretics ?
- (A) Nifedipine
  - (B) Captopril
  - (C) Indapamide
  - (D) Propranolol



140. Drug of choice for treating Digoxin induced ventricular arrhythmia.
- (A) Quinidine
  - (B) Procainamide
  - (C) Propafenone
  - (D) Lidocaine
141. The biochemical mechanism of action of Digitalis is associated with
- (A) increase in conduction from Atrium to ventricle
  - (B) increase in ATP synthesis
  - (C) increase in systolic intracellular calcium levels
  - (D) a block of calcium channels
142. Which of the following drug is best suited to alter lipid profile?
- (A) Atenolol
  - (B) Clonidine
  - (C) Chlorothiazide
  - (D) Torsemide
143. The major clinical use of Nimodipine is
- (A) Hypertension
  - (C) Subarachnoid haemorrhage
  - (B) Angina pectoris
  - (D) Raynaud's phenomenon
144. Which of the following antiarrhythmics decreases the action potential in Purkinje fibres?
- (A) Quinidine
  - (C) Lidocaine
  - (B) Flecainide
  - (D) Amiodarone
145. Which of the following antianginal drug inhibit late  $\text{Na}^+$  current in the myocardium?
- (A) Ranolazine
  - (B) Ivabradine
  - (C) Nicoranadil
  - (D) Nicardipine
146. Which Beta blocker can be given parenterally in hypertensive emergency?
- (A) Carvedilol
  - (B) Nebivolol
  - (C) Labetalol
  - (D) Metoprolol

147. A Calcium channel blocker that acts as uterine relaxant is
- (A) Nifedipine
  - (B) Verapamil
  - (C) Diltiazem
  - (D) Minoridil
148. Somatostatin is a growth hormone releasing inhibiting hormone present in the
- (A) GI tract
  - (B) Heart
  - (C) Kidneys
  - (D) Muscles
149. The following drugs are uterine relaxants except
- (A) Salbutamol
  - (B) Ergometrine
  - (C) Aspirin
  - (D) Calcium channel blockers
150. Oral contraceptives are banned in the following conditions except
- (A) Thrombo embolic disease
  - (B) Moderate to severe hypertension
  - (C) Hirsutism
  - (D) Malignancy of breast
151. The duration of action of protamine zinc insulin is
- (A) 5 - 8 hrs
  - (C) 24 - 36 hrs
  - (B) 10 - 15 hrs
  - (D) 15 - 25 hrs
152. Incretin Analogs belongs to \_\_\_\_\_ group
- (A) Dipeptidyl peptidase 4 inhibitors
  - (B) Glucagon like peptide - 1
  - (C)  $\alpha$ -Glucosidase inhibitors
  - (D) Amylin Analogs

153. Daily requirement of vit. B<sub>12</sub> in adults is
- (A) 50 – 100 Mg
  - (B) 1 – 3 Mg
  - (C) 3 – 5 Mg
  - (D) 200 – 400 Mg
154. A phenoxy acetic acid derivative having diuretic action is
- (A) Spironolactane
  - (B) Ethacrynic acid
  - (C) Isosorbide
  - (D) Piretanide
155. A suitable drug having Pleiotropic action is
- (A) Atorvastatin
  - (B) Ezetimibe
  - (C) Amphetamine
  - (D) Orbielat
156. Name the statin which is metabolised in the liver to active form
- (A) Atorvastatin
  - (B) Simvastatin
  - (C) Lovostatin
  - (D) Provastatin
157. Laxatives are preferred in patients suffering from
- (A) Hypertension
  - (B) Myocardial infarction
  - (C) Diabetes
  - (D) Anaemia

158. Best time to give Rh anti D Prophylaxis is
- (A) 12 wks of pregnancy
  - (B) 28 wks of pregnancy
  - (C) 36 wks of pregnancy
  - (D) After delivery
159. Topical immunomodulator used for the treatment of genital wart is
- (A) Imiquimod
  - (B) Podophylline
  - (C) Interferon
  - (D) Acyclovir
160. Etanercept used in rheumatoid arthritis act by the inhibition of
- (A) TNF  $\alpha$
  - (B) TGF beta
  - (C) IL 2
  - (D) IL - 6
161. Immunostimulant agent among the following is
- (A) Pirenzepine
  - (B) Levamisole
  - (C) Albendazole
  - (D) Methotrexate
162. Omalizomab is to be administered by which route?
- (A) Inhalation
  - (C) Subcutaneous
  - (B) Intravenous
  - (D) Oral
163. Disodium Cromoglycate is used by which of the following routes
- (A) Oral
  - (B) Inhalation
  - (C) Intravenous
  - (D) Intramuscular

164. Long acting opioid antitressine with no analgesic or addicting property is
- (A) Codine
  - (B) Dextro methorphone
  - (C) Ethylmorphine
  - (D) Pholcodine
165. All are true about Bronshexine except
- (A) Mucokinetics
  - (B) Antitressines
  - (C) Derivative of the alkaloid vasicine
  - (D) Mucolytic
166. Which of the DMARD require liver functioning testing
- (A) Methotrexate
  - (B) Infliximab
  - (C) Abatacept
  - (D) Cyclophoramide
167. Specific antidote in paracetamol poisoning is
- (A) Tlumazenil
  - (C) N-acetylcysteine
  - (B) Sodium bicarbonate
  - (D) Methylene blue
168. Which of the following is non opioid analgesic and does not inhibit PG synthesis?
- (A) Ketorolac
  - (B) Meloxicam
  - (C) Nefopam
  - (D) Tenoxicam
169. Prostaglandin useful for the prevention of duodenal ulcer is
- (A) Earloprost
  - (B) Misoprostol
  - (C) Dinoprost
  - (D) Alprostadel

170. Fexofenadine is the active metabolite of
- (A) Astemizole
  - (B) Loratadine
  - (C) Terfenadine
  - (D) Cetrizine
171. Which of the following drugs if given with terfenadine can cause ventricular arrhythmias?
- (A) Ketoconazole
  - (B) Sparfloxacin
  - (C) Griseofulvin
  - (D) Ampicillin
172. One of the following antihistamine's have appetite stimulating effect
- (A) Diphenhydramine
  - (B) Cyproheptadine
  - (C) Pheniramine
  - (D) Cinnarizine
173. With regard to Betahistine – All are true except
- (A) Causes vasoconstriction in the internal ear
  - (B) Orally active
  - (C) H<sub>1</sub> – selective histamine analogue
  - (D) Contraindicated in asthmatics
174. Which of the following is a CB<sub>1</sub> receptor antagonist to prevent obesity
- (A) Dronabinol
  - (B) Rimonabant
  - (C) Orlistat
  - (D) Fenfluramine



175. Which of the following is not used in the treatment of scabies
- (A) Lindane
  - (B) Benzyl benzoate
  - (C) Crotaniton
  - (D) Acriflavine
176. Which is used in the treatment of Arsenic poisoning?
- (A) Dimercaprol
  - (B) Penicillamine
  - (C) Calcium disodium edetate
  - (D) DTPA
177. Identify a serotonergic drug with Anorexiant property
- (A) Phenetermine
  - (B) Dieflypropin
  - (C) Mazindol
  - (D) Fenfluramine
178. Metabolic acidosis is an clinical symptom of poisoning with
- (A) Aspirin, ethanol, ethylene glycol
  - (B) Amphetamine, cocaine, ethanol
  - (C) Paracetamol, acetone, toxic mushrooms
  - (D) Organophosphates, opiates, GBH
179. Drug of abuse referred to as 'argel dust' and detectable on rapid urine testing is
- (A) Amphetamine
  - (B) Carralis
  - (C) Methadone
  - (D) Phencyclidine

180. Which drug causes influx of  $Ca^{2+}$  from endogenous stores of the cestode.
- (A) Praziquantel
  - (B) Metrifonate
  - (C) Oxamniquine
  - (D) Bithionol
181. Which of the following is an organo phosphorous compound against trematodes
- (A) Metrifonate
  - (B) Oxamniquine
  - (C) Lercanidazole
  - (D) Pyrantel pamoate
182. Which Antimalarial drug produces Hypotension and cardiac arrhythmias on parenteral administration.
- (A) Quinine
  - (B) Chloroquine
  - (C) Artesisinin
  - (D) Artemether + Lumefantrine
183. Which one of these drugs have high anti tubercular efficacy as well as low toxicity
- (A) ISONIAZID (INH)
  - (B) THIAZETAZONE (TZN)
  - (C) PARA AMINO SALICYLIC ACID (PAS)
  - (D) KANAMYCIN (KMC)
184. Mechanism of action of Isonicotinic Acid Hydrazide (INH) is
- (A) Inhibition of the DNA dependant RNA Polymerase
  - (B) Inhibition the synthesis of mycolic acid
  - (C) Inhibition Para Amino Benzoic acid (PABA)
  - (D) Induction of ribosomes to manufacture peptide chains with wrong amino acids

185. A 50 year old woman, has been diagnosed with locally advanced breast cancer and recommended for chemotherapy she has five years history of myocardial infarction and congestive heart failure. Which antineoplastic drug should be best avoided.
- (A) Anthracycline (B) Alkylating agent  
(C) Platinum compound (D) Bisphosphonates
186. A 35 year old patient is having Ca lung with a past history of lung disease. Which of the following drugs should not be given?
- (A) Vinblastine (B)  Busulfan  
(C) Mithramycin (D) Adriamycin
187. All of the following anticancer agents cause bone marrow suppression except
- (A) Chlorambucil  
(B) Daunorubicin  
(C) Doxorubicin  
 (D) Flutamide
188. Drug causing maximum peripheral neuropathy is
- (A) Zidovudine  
(B) Lamivudine  
 (C) Stavudine  
(D) Didanosine
189. Which of the following drug is most nephrotoxic?
- (A) Cisplatin  
(B) Methotrexate  
(C) 5-Fu  
(D) Vincristine
190. The Anticancer action of Azathioprine, is
- (A) Radiation  
 (B) Purine antagonism  
(C) Alkylation  
(D) Iodination

191. The mechanism of action of antifungal azoles (imidazoles and triazoles) is
- (A) They impair ergosterol synthesis
  - (B) They impair protein synthesis
  - (C) They impair folic acid synthesis
  - (D) They impair carbohydrate synthesis
192. Flucanazole differs from Ketoconazole in that
- (A) It is not active by the oral route
  - (B) It is a more potent inhibitor of drug metabolism
  - (C) It is not effective in cryptococcal meningitis
  - (D) It is unlikely to produce anti-androgenic side effects
193. The drug of choice for cerebral malaria due to *P. faciparum* is
- (A) Quinine
  - (B) Mefloquine
  - (C) Chloroquine
  - (D) Pyrimethamine + Sulfadoxine
194. The drug of choice for treating Guinea worm infection (*Dracunculus medinensis*) is
- (A) Nystatin
  - (B) Niridazole
  - (C) Nitrofurantoin
  - (D) Nitric acid
195. The following anticancer drug has high emetogenic potential
- (A) Vincristine
  - (B) Chlorambucil
  - (C) 6-Mercaptopurine
  - (D) Cisplatin

196. Which one of the following drugs is used as an Anti leprotic drug?
- (A) 4-4' diamino diphenyl sulfone
  - (B) 7 amino cephalosporin
  - (C) 6 amino penicillanic acid
  - (D) 2, 2' (Ethylene diamine)-di-1-butanol
197. Zidovudine (AZT) is a class of Antiviral drug used to treat
- (A) Herpes group viruses
  - (B) Polio viruses
  - (C) Rabies viruses
  - (D) Human Immuno deficiency Virus (HIV) infection
198. The Antifungal Antibiotic obtained from streptomyces nodosus is
- (A) Bacitracin
  - (B) Streptomycin
  - (C) Griseofulvin
  - (D) Amphotericin B (AMB)
199. Toxicity of the Antimalarial drug quinine is called as
- (A) Gray Baby Syndrome
  - (B) Exophthalmic Goitre
  - (C) Cinchonism
  - (D) Alcoholism
200. Pyrantel is a drug of choice to treat
- (A) Ancylostoma duodenale
  - (B) HIV
  - (C) Rabies
  - (D) Polio

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