

Time Allowed: 120 Minutes

Note: Attempt ALL MCQ's.

- Use only blue / black pen. Possession / use of mobile phones and other electronic accessories are strictly prohibited.
- Response sheets without roll numbers will be cancelled. Student's result will be declared "Under Report" if (i) MCQ question paper is not returned back along with response sheet or is tampered by the student (ii) The roll number is not written on the said paper

PHARMACOLOGY	
1	<p>A 72 years old man weighing 60 Kg was diagnosed as a case of congestive heart failure (CHF). On ECG, he was found to have fast atrial fibrillation. He had been on ACE inhibitor and diuretics. It was decided to start digoxin, for which loading dose of digoxin was given. Regarding the loading dose of digoxin, which of the following is TRUE?</p> <p>A Given as a single dose      B Must always be given parentally      C <input checked="" type="checkbox"/> Main aim is to quickly reach therapeutic concentration</p> <p>D Required only for drugs having small therapeutic index      E Required only for drugs having short half-life</p>
2	<p>A professor of pharmacology explained his medical students about volume of distribution of drug as a pharmacokinetic parameter. Which of the following is not related to the volume of distribution of drugs?</p> <p>A Drug dose      B Extent of absorption      C <input checked="" type="checkbox"/> Half-life of drug</p> <p>D Plasma concentration      E Plasma protein binding</p>
3	<p>A 15 years old child developed anaphylactic shock after receiving injection Penicillin. Which of the following is most appropriate route of administration of adrenaline in case of anaphylactic shock?</p> <p>A Intra-arterial      B Intra-cardiac      C <input checked="" type="checkbox"/> Intra-muscular</p> <p>D Intra-venous      E Sub-cutaneous</p>
4	<p>A 62 years old man with ischemic heart disease is using a combination of drugs including nitrates for the last 3 months. He stated that initially the drug responded very well, but with the passage of time, his symptoms are not relieved with the same dose and need to increase the dose. What is the most likely cause of this reduced response?</p> <p>A Drugs has low quality      B Drug has low potency      C <input checked="" type="checkbox"/> Drug has lost its effect due to development of tolerance</p> <p>D Drug has lost its efficacy due to development of dependence      E Drug has lost its efficacy due to addiction</p>
5	<p>A 50 years old man entered the hospital with angina pain. The doctor on duty immediately administered him sublingual Glyceryl trinitrate (GTN). Which of the following is true about sublingual route of drug administration?</p> <p><input checked="" type="checkbox"/> It avoids first pass metabolism      B It has low bioavailability      C It is a route of choice for unconscious patients</p> <p>D Low drug plasma levels are achieved with sublingual route than by oral route      E The route is difficult to self-administer</p>
6	<p>A 45 years old man working in a poultry farm presented with 3 days history of cough, fever and body aches. Few of his working colleagues also had the same problem. The physician diagnosed him as a case of Bird flu. What will be the single best drug which can be used for the treatment of this patient and for the prophylaxis of attending physicians?</p> <p>A Acyclovir      B Famciclovir      C Maraviroc</p> <p>D <input checked="" type="checkbox"/> Oseltamivir      E Zanamivir</p>
7	<p>A 64 year old lady with a history of multiple abdominal surgeries due to Crohn's disease presented to the emergency room with small bowel obstruction. She was operated for resection of stenosed region of small bowel. Post-operatively, the patient developed hypertension, for which oral metoprolol was given; but no improvement in hypertension was observed. What is the most likely cause of non-responsiveness?</p> <p><input checked="" type="checkbox"/> Decreased drug absorption through intestine      B Decreased GI blood flow      C Destruction of drug by stomach acid</p> <p>D First-pass effect      E Increased protein binding of the drug</p>

8	A 30 year old lady with 36 weeks gestation is suffering from HIV/AIDS and is being advised trimethoprim/sulfamethoxazole for prevention of Pneumocystis carinii pneumonia. What is the most important concern of the physician while prescribing this drug?		
	A It competes for bilirubin binding sites on albumin	B <input checked="" type="checkbox"/> It depresses bone marrow	C <input checked="" type="checkbox"/> It is hepatotoxic
	D It inhibits bilirubin metabolism	E It increases turnover of RBCs	
9	A 35 years old patient presented to ER with complaint of loose motions for the last 3 days. On examination, he was found severely dehydrated, pale looking with BP 90/60 mmHg. The attending physician started IV infusion. Regarding use of intravenous infusion, which of the following statements is FALSE?		
	A It can be used to administer large volume of fluid	B <input checked="" type="checkbox"/> It does not cause irritation on extravasation	C It is an emergency route
	D It produces rapid action	E Its purpose is to maintain constant drug level in plasma	
10	A 48 year old man was brought to emergency department with decreased level of consciousness. Focal neurological signs were suggestive of drug poisoning and the doctor advised hemodialysis. Which of the following drugs with given volume of distribution can be removed by hemodialysis?		
	A Ciprofloxacin 178 L	B Chloroquine 1500L	C Imipramine 1100 L
	D <input checked="" type="checkbox"/> Phenobarbitone 40 L	E Salmeterol 3160 L	
11	A 30 year old female suffering from Epilepsy is on Phenytoin for the last one year. Phenytoin is absorbed slowly through GI tract and highly bound to plasma proteins. Which of the following statements is true regarding high plasma protein binding?		
	A Increase volume of distribution of drugs	B Makes the drug long acting	C Makes the drug short acting
	D Minimizes drug interactions	E <input checked="" type="checkbox"/> Pharmacologically inactive form of drug	
12	A 45 years old man was received in casualty department. A presumptive diagnosis of bacterial meningitis was made. An antimicrobial therapy should be initiated after which of the following measures?		
	A Blood sugar and creatinine were found normal	B <input checked="" type="checkbox"/> Causative microorganism(s) had been identified by the microbiologist.	C <input checked="" type="checkbox"/> CSF samples had been sent
	D Fever controlled with antipyretics	E Patient had been shifted to medical ICU	
13	A 36 years old female, working as a nurse in a private hospital presented with one year history of fatigue. The physician diagnosed her as a case of Hepatitis C virus infection. What is the drug of choice for the treatment of this patient?		
	A Amantadine	B Entecavir	C Foscarnit
	D <input checked="" type="checkbox"/> Rimantadine	E <input checked="" type="checkbox"/> Sofosbuvir	
14	A patient aged 18 years was suffering from acute otitis media. The physician prescribed an antibiotic. All of the following statements about his treatment are true EXCEPT:		
	A Amoxicillin is a broad spectrum antimicrobial	B <input checked="" type="checkbox"/> Clavulanic acid is a narrow spectrum antimicrobial	C Doxycycline is a broad spectrum antimicrobial
	D Isoniazid is a narrow spectrum antimicrobial	E Meropenem is a broad spectrum antimicrobial	
15	A 55 years old lady, who is a diagnosed case of ovarian cancer and now she is on chemotherapy. Which type of drug will be ideal to treat her?		
	A Drugs with high efficacy	B Drug with high potency	C <input checked="" type="checkbox"/> Drug with high potency and efficacy
	D Drug with high potency and low efficacy	E Drug with low potency and high efficacy	
16	A 40 years old man presented with nausea, vomiting, deep and rapid breathing was diagnosed with Aspirin poisoning, a weak acidic drug. Which of the following is correct about a weak acidic drug?		
	A Better absorbed from intestine	B Do not cross blood brain barrier	C Excreted faster in acidic urine
	D <input checked="" type="checkbox"/> Excreted faster in alkaline urine	E More plasma protein bound	
17	A 55 years old female was diagnosed with an ovarian tumor and started on Cisplatin chemotherapy. Which of the following is most appropriate for controlling Cisplatin induced vomiting?		
	A Domperidone	B Metoclopramide	C <input checked="" type="checkbox"/> Ondansetron
	D Prochlorperazine	E Sucralfate	
18	A 35 years old lady was diagnosed as a case of Rheumatoid Arthritis (RA). Her endoscopy report revealed a peptic ulcer. What is the most suitable NSAID to treat her pain due to RA?		
	A Aceclofenac	B Celecoxib	C <input checked="" type="checkbox"/> Diclofenac Sodium
	D Mefenamic acid	E Nimesulide	

19	A 9 year old male child was diagnosed as a case of chlamydial pneumonia. The physician while considering the antibiotic of choice did not prescribe tetracycline and opted for another alternative because tetracycline:		
	A Causes aplastic anemia	B Causes grey baby syndrome	C Causes kernicterus
	D Causes tendon rupture	E Deposits in tissues undergoing calcification	
20	A 10 year old boy with throat irritation, cough, body aches and high grade fever was examined by an ENT specialist. His tonsils were found acutely inflamed. Ideally, which antimicrobial should he receive?		
	A Clarithromycin	B Gentamicin	C Methicillin
	D Oxytetracycline	E Penicillin G	
21	A 35 year old diabetic woman presented to the emergency room with signs and symptoms of urinary tract infection. She was admitted for treatment with intravenous ciprofloxacin. What is the mechanism of action of this drug?		
	A Inhibition of the 30s ribosome	B Inhibition of the 50s ribosome	C Inhibition of bacterial cell wall synthesis
	D Inhibition of DNA gyrase	E Inhibition of RNA synthesis	
22	A physician prescribed Nafacillin for lung abscess. Which of the following statements about Nafacillin is INCORRECT?		
	A Causes anaphylaxis	B Causes interstitial nephritis	C Causes neutropenia
	D Treats pseudomonal infection	E Treats staphylococcal infection	
23	A 23 year old boy presented with high grade fever and chills. The blood smear was positive for plasmodium vivax and was started on chloroquine. Which of the following statements about chloroquine having high volume of distribution is true?		
	A It has high hepatic first-pass metabolism	B It has low concentration in the plasma	C It has propensity to stay in plasma
	D It is filtered quickly by the glomerulus	E It is likely to have minimum chances of drug interaction	
24	A 60 years old patient, who is diagnosed with deep vein thrombosis (DVT), started on heparin developed bleeding from nose. His physician used protamine to reverse the anticoagulant effect of heparin. This is an example of which type of antagonism?		
	A Allosteric	B Chemical	C Competitive
	D Irreversible	E Physiological	
25	A 29 year old known epileptic woman has achieved a good control of seizures with two years of antiepileptic medications. She was advised oral contraceptives by her gynecologist. Regarding drug interactions, which of the following is not associated with enzyme induction or inhibition property?		
	A Carbamazepine	B Ethosuximide	C Lamotrigine
	D Phenytoin	E Valproate	
26	A 55 years old lady, diagnosed case of ischemic heart disease, presented with severe pain in the knee joints. You diagnosed her as a case of acute osteoarthritis. Which of the following NSAIDs will you least likely prescribe to this patient?		
	A Aceclofenac	B Etoricoxib	C Indomethacin
	D Mefenamic acid	E Nimesulide	
27	A 46 years old man, who was working as a Laborer in Dubai a year ago, now presented with one month history of fatigue, fever, loose motions and weight loss. You diagnosed him as a case of HIV/AIDS. You referred him to infectious disease specialist who started him on HAART. Which of the following is not included in HAART?		
	A Abacavir	B Delavirdine	C Lamivudine
	D Rimantadine	E Tenofovir	
28	A 65 year old diabetic man came to OPD with a history of indigestion and bloating for the past 2 weeks. The doctor prescribed metoclopramide to improve his gastric motility. Metoclopramide causes activation of which of the following receptors on myenteric neurons?		
	A Dopaminergic D2	B Muscarinic M1	C Nicotinic receptors
	D Serotonergic 5-HT3	E Serotonergic 5-HT4	
29	All of the following statements about Beta lactam antimicrobials are true EXCEPT:		
	A They are contraindicated in the neonates	B They need an intact Beta lactam ring to exert their anti-bacterial effect	C They have similar mechanism of action
	D They have similar mechanism of resistance	E They have similar physiochemical properties	

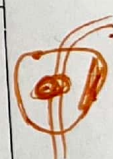
30	A 30 year old man having fever and productive cough for the past one month has been diagnosed with pulmonary tuberculosis and was started on anti-tuberculous drugs. Which of the following is a potent microsomal enzyme inducer?	A Ethambutol	B Isoniazid	C Pyrazinamide
		D <input checked="" type="checkbox"/> Rifampicin	E Streptomycin	
31	A 48 years old man was diagnosed with congestive heart failure (CHF) and started on digoxin. Which of the following is an important feature of CHF regarding drug action?	A Altered drug clearance	B Impaired blood flow to the intestine	C Increased drug elimination
		D Increased protein binding of various drugs	E <input checked="" type="checkbox"/> Increased volume of distribution	
32	A truck driver presented to an asthma clinic with complaints of constant sneeze, burning and watery eyes. He indicated that he used to have these symptoms every spring. Which of the following drugs would be most appropriate to treat this patient?	A <input checked="" type="checkbox"/> Cetirizine	B Dimenhydrinate	C Diphenhydramine
		D Fexofenadine	E Promethazine	
33	A 23 year old girl visited her family physician with painful "bumps" on her labia and vulva. On examination, there were vesicles in the described region. You suspect herpes simplex infection on clinical grounds and recommend which of the following drugs?	A Amantadine	B Foscarnet	C Rimantadine
		D <input checked="" type="checkbox"/> Valacyclovir	E Vidarabine	
34	A 7 years old boy developed severe anaphylaxis to penicillin. In addition to other supportive measures, he was given adrenaline. Adrenaline acts by antagonism of which of the following types?	A Chemical antagonism	B <input checked="" type="checkbox"/> Competitive antagonism	C Irreversible Antagonism
		D Physiological antagonism	E Reversible antagonism	
35	A 50 year aged female underwent hysterectomy and developed post-surgical wound infection. Pus culture revealed growth of methicillin resistant staph aureus (MRSA). By which mechanism such bacteria acquire resistance?	A Bacteria are naturally resistant to methicillin	B Efflux mechanism	C Making modification in their cell wall
		D <input checked="" type="checkbox"/> Modifying penicillin binding proteins (PBPs)	E Synthesizing Beta lactamase	
36	A 5 days old baby developed signs of septicemia. She was admitted in neonatal ICU and was started treatment. What is the most appropriate drug?	A Cefotaxime	B <input checked="" type="checkbox"/> Ceftriaxone	C Piperacillin
		D Trimethoprim	E Tobramycin	
37	A 55 year old patient in a surgical ICU was started with an IV antimicrobial infusion. Rate of infusion was rapid. After a short time, the patient developed marked redness and flushing of upper part of trunk and face. Which antimicrobial did he receive?	A Ceftriaxone	B Clarithromycin	C Imipenem
		D Ticarcillin	E <input checked="" type="checkbox"/> Vancomycin	
38	A 67 years old man presented with tremor, rigidity, bradykinesia and diagnosed with Parkinson disease. He was started on levodopa, a pro-drug. Regarding pro-drug, which of the following is true	A Active drug	B <input checked="" type="checkbox"/> An Inactive drug converted in body to its active metabolites	C Do not cross blood brain barrier
		D Given by sublingual route	E The oldest member of a class of drug	
39	A 55 years old man working in a barber shop presented with a 6 month history of fever, malaise and loss of appetite. The physician diagnosed him as a case of <u>chronic Hepatitis B virus infection</u> . Which of the following is the treatment of choice?	A Acyclovir	B Ganciclovir	C Maraviroc
		D <input checked="" type="checkbox"/> Tenofovir	E Zanamivir	
<b>PATHOLOGY</b>				
40	A 36 year old woman has been taking acetylsalicylic acid (aspirin) for arthritis for the past 4 years. Her joint pain is temporarily reduced via this therapy. However, she now has occult blood identified in her stool. Which of the following substances is most likely inhibited by aspirin to cause this complication?	A Bradykinin	B Hageman factor	C Interleukin-1
		D Leukotriene B4	E <input checked="" type="checkbox"/> Thromboxane	

$H_2O_2 \rightarrow H_2O + O_2$

1-3 day post-injury

CKMB

MI



41	Resistance to antibiotics in bacteria especially in animals is mainly due to the injudicious use of antibiotics. This is mainly due to genetic information transfer between viable bacteria. The genetic transfer between viable bacteria occurs by which mechanism?	A Cell fusion	B <input checked="" type="checkbox"/> Conjugation	C Recombination	D <input checked="" type="checkbox"/> Transformation	E Transduction
42	A 19 year old man incurred a stab wound to the chest. The wound was treated in the emergency room. Two months later there was a firm, 3 x 2 cm nodular mass with intact overlying epithelium in the region of the wound. On examination, the scar was firm, but not tender, with no erythema. This mass is excised and microscopically showed fibroblasts with abundant collagen. Which of the following mechanisms has most likely produced this series of events?	A <input checked="" type="checkbox"/> Development of a fibrosarcoma	B Foreign body response from suturing	C <input checked="" type="checkbox"/> Keloid formation	D Poor wound healing from diabetes mellitus	E Staphylococcal wound infection
43	An experimental study of steatohepatitis in metabolic syndrome revealed the hepatocyte cell membrane injury with necrosis occurring in response to increased amounts of TNF (Tumor necrosis factor). When a pharmacologic agent inhibiting caspases were administered, cell necrosis still occurred. Which of the following substances forms a supramolecular complex that increases the generation of reactive oxygen species?	A Catalase	B Cytochrome C	C Interleukin 1-beta converting enzyme.	D Receptor interacting protein	E Ubiquitin ligase
44	In Pulmonary Mycobacterium tuberculosis infection, it is observed microscopically that granulomas form in the lung. Within the granuloma are found inflammatory cells expressing class II MHC antigens. These cells elaborate cytokines that promote fibroblastic production of collagen within the granulomas. From which of the following peripheral blood leukocytes are these cells bearing class II antigen most likely to be derived?	A Basophils	B B cells	C <input checked="" type="checkbox"/> Monocytes	D Neutrophils	E NK cells
45	A patient with a non-healing skin lesion was biopsied to determine its cause. Laboratory reported that the lesion had the characteristics of a stellate granuloma. Which of the following is most likely to be true of the causal agent?	A It has an exotoxin producer	B <input checked="" type="checkbox"/> It is intracellular	C It has lipopolysaccharide	D It has pili	E It is a super antigen
46	An episode of marked chest pain lasting 4 hours brings a 51-year-old man to the emergency room. He is found to have an elevated serum creatine kinase. An angiogram reveals a complete blockage of the left circumflex artery 2 cm from its origin. Which of the following substances would you most expect to be elaborated around the region of tissue damage in the next 3 days as an initial response to promote healing?	A Complement component C3b	B <input checked="" type="checkbox"/> Histamine	C Immunoglobulin G	D <input checked="" type="checkbox"/> Leukotriene B4 → chemo	E <input checked="" type="checkbox"/> Vascular endothelial growth factor
47	On day 28 of her menstrual cycle, a 27 year old woman experienced the onset of menstrual bleeding that lasted for 5 days. She had regular cycles since menarche. Which of the following processes most likely occurs in her endometrial cells to initiate the onset of menstrual bleeding?	A <input checked="" type="checkbox"/> Apoptosis	B Atrophy	C Caseous necrosis	D Hypertrophy	E Liquefactive necrosis
48	A 75 years old man presented with difficulty in urination, including hesitancy and increased frequency, for the last 5 years. Examination revealed enlarged prostate. Transurethral resection of the prostate and microscopic appearance of the prostate chips obtained is that of nodules of the gland with intervening stroma. Which of the following pathologic processes has most likely occurred in his prostate?	A Dysplasia	B Fatty change	C <input checked="" type="checkbox"/> Hyperplasia	D Hypertrophy	E Metaplasia
49	A 20 year old man has noted increasing abdominal pain over the past day. Physical examination reveals that this pain is localized mainly to the right lower quadrant, and there is rebound tenderness with deep palpation. Which of the following is the best laboratory finding to help you make a decision regarding further management of this patient? <i>biad → RLQ, ↑ WBC, fever.</i>	A Creatine kinase (CK)	B Sedimentation rate	C Total serum complement level	D Urine lipase	E <input checked="" type="checkbox"/> WBC count (TLC) with differential → neutrophils
50	A cancer patient with chemotherapy had to have her intravenous port revised after its blockade and the catheter was found to contain bacterial contaminants. Which of the following is most likely to be a factor in this condition?	A <input checked="" type="checkbox"/> Biofilm production	B Ergosterol containing membrane	C Peptidoglycan layer	D Possession of IgA protease	E Possession of Pili

51	A 20 years old lady had an infection of the nail bed and was diagnosed as paronychia. Gram stain on pus from the infected area revealed gram positive cocci in chains. Culture of the pus showed small beta-hemolytic colonies that were catalase negative and were inhibited by bacitracin. What is the most likely causal microbe?		
	A Enterococcus faecalis	B Staphylococcus aureus	C Streptococcus agalactiae
	D Streptococcus pneumoniae	E Streptococcus pyogenes	
52	MacConkey's agar is both selective and differential media that is primarily used for the isolation of enteric bacteria. Which of the following metabolic property differentiate the pink-colored colonies of E. coli from Salmonella spp that does not show any color?		
	A Gas production	B Hemolytic activity	C Hydrogen sulfide production
	D Lactose fermentation	E Urease production	
53	A 50 years old male gradually developed high grade fever, hemoptysis and was diagnosed with severe Necrotizing pneumonia. Sputum culture revealed growth of methicillin resistant staphylococcus aureus. What is the most likely exotoxin produced by Staphylococcus aureus that kills cells and is important in the severe, rapidly spreading necrotizing lesions?		
	A Coagulase	B Enterotoxin	C Exfoliatin
	D PV-Leukocidin	E Staphyloxanthin	
54	A patient aged 30 year was diagnosed with COVID-19. The city administration ordered to isolate the patient and to identify persons in contact with the infected man. What is the reason for high spread of SARS-COV-2?		
	A High viral shedding occurs early in disease, even with mild symptoms	B High number of virus in the respiratory air droplets	C High infectivity rate of the virus increases the danger of spread of the disease
	D Sneezing by the patient spread the infection	E Severe coughing of the patient	
55	A 40 year old woman presented to gynae OPD with painful urination, increased vaginal discharge and abdominal pain. Cervical swab was taken. Growth from chocolate agar revealed oxidase positive colonies which were not fermented by maltose. Which of the following organism is the most likely cause?		
	A Candida albicans	B Candida tropicalis	C Chlamydia
	D Lactobacillus	E Neisseria gonorrhoeae	
56	One of the common food source of bacteria is raw meat and vegetables, unpasteurized milk and cheese. Which of the following is a rod-shaped, gram-positive, non-spore-forming virulent food borne pathogen?		
	A Clostridium botulinum	B Cryptococcus neoformans	C Listeria monocytogenes
	D Rhizopus stolonifera	E Staphylococcus aureus	
57	A 35 year old man positive for HIV developed sepsis with the subsequent development of a necrotic lesion on the buttock that has a black center and an erythematous margin. Which of the following is the most likely causal agent?		
	A Bacillus anthracis	B Clostridium perfringens	C Enterococcus faecalis
	D Pseudomonas aeruginosa	E Staphylococcus aureus	
58	A 36 year old male patient was brought to emergency with abrupt onset of fever, chills, malaise, prostration and a rash that is generally petechial. Gram staining revealed diplococci and CSF culture on Thayer martin media showed round smooth convex, colorless opaque colonies. What is the most likely causal agent?		
	A Chlamydia	B Enterococcus	C Neisseria meningitides
	D Neisseria gonorrhoea	E Streptococcus pneumoniae	
59	A 45 year old male hunter presented to OPD with a history of mild fever, rash and painful ulcer on his left arm. On physical examination, a 12x 6 mm ulcer with ill-defined border was noticed on his left arm. Lymph nodes in axilla were also palpable. Gram staining of ulcer revealed gram negative coccobacilli which are non-motile. Which of the following organisms do you suspect in this case?		
	A Bartonella henselae	B Bartonella melitensis	C Brucella suis
	D Francisella Tularensis	E Yersinia	
60	A 24 year old primary gravida developed a positive IgM titer to Toxoplasma gondii in her eighth month. What information should be given by her attending physician?		
	A Future infection be avoided by vaccination	B Major organ damage be reversed by prompt treatment of the newborn	C Newborn with a positive anti-toxoplasma IgG response should be treated with anti-Parasitic drugs
	D Retinochoroiditis can be prevented by drug treatment of an infant with positive IgM response	E This child and all future fetuses are likely to be infected	

M  
Lact. pos

71	A 40 year old woman presented to gynae OPD with painful urination, increased vaginal discharge and abdominal pain. Cervical swab was taken. Growth from chocolate agar revealed oxidase positive colonies which were not fermented by maltose. Which of the following organism is the most likely cause?				
	A	Candida albicans	B	Candida tropicalis	C Chlamydia
	D	Lactobacillus	E	Neisseria gonorrhoeae	
72	A 35 year old female came to gynae OPD with symptoms of vaginal itching and irritation. On per speculum examination thick white vaginal discharge was observed which had an appearance of cottage cheese. Which organism do you suspect in the above scenario?				
	A	Candida albicans	B	Chlamydia	C Herpes simplex virus
	D	Human papilloma virus	E	Neisseria gonorrhoeae	
73	A patient aged 30 year was diagnosed with COVID-19. The city administration ordered to isolate the patient and to identify persons in contact with the infected man. What is the reason for high spread of SARS-COV-2?				
	A	High viral shedding occurs early in disease, even with mild symptoms	B	High number of virus in the respiratory air droplets	<input checked="" type="checkbox"/> High infectivity rate of the virus increases the danger of spread of the disease
	D	Sneezing by the patient spread the infection	E	Severe coughing of the patient	
74	A 40 year old male patient came to pulmonology OPD with low-grade fever, wheeze, hemoptysis and shortness of breath. Patient had a history of tuberculosis in the past as well. Sabouraud dextrose agar revealed a yellow green powdery growth on the front while yellowish growth on the back of the culture plate. CT Scan revealed a fungus ball. Which causative organism do you suspect in the above scenario?				
	A	Aspergillus Fumigatus	B	Candida albicans	C Coccidioides immitis
	D	Cryptococcus neoformans	E	Pneumocystis jiroveci	
<b>FORENSIC MEDICINE</b>					
75	A young doctor conducted an autopsy a year ago. The honorable court summoned him for evidence recording. Which of the following in court proceedings is called as double edged sword?				
	A	Arguments by the counsel of the deceased	<input checked="" type="checkbox"/> B	Cross examination	C Police investigation
	D	Re-examination	E	Statement of the medicolegal officer	
76	A person was shot vigorously a while ago and was brought to the hospital in a critical position. As per legal formalities, a dying declaration was arranged. Which of the following is the logical and legal choice of a person to record dying declaration?				
	A	Attendant of the dying person in hospital	<input checked="" type="checkbox"/> B	Attending medical officer	C Community elder
	D	Magistrate	E	Police officer	
77	A dead body is brought by police to mortuary for postmortem examination. The rectal temperature of the dead body is 96 F, while room temperature is 94 F. Which of the following is the probable time since death as calculated by the doctor on duty?				
	A	½ hour	B	1 hour	C 1½ hours
	<input checked="" type="checkbox"/> D	2 hours	E	2½ hours	
78	A 22 year old woman with an excessive vaginal bleeding came to the hospital after an illegal abortion at a private clinic. According to the attending doctor, the fetus organs were formed. Which section of the Pakistan Penal Code will be applied in this case?				
	A	337 A	B	337 B	C 338 A
	<input checked="" type="checkbox"/> D	338 B	E	339	
79	A 44 year old man was found dead at his residence with two gunshot wounds on his chest. Which inquest system will be used to investigate this case				
	A	Coroner's Inquest	B	Magistrate's Inquest	C Medical Examiner's System
	<input checked="" type="checkbox"/> D	Police Inquest	E	Procurator Fiscal	
80	During laparotomy of a 20 year old girl, a pair of scissors were left in the abdominal cavity of the patient. Which of the following is responsible for this type of negligence?				
	A	Anesthetist	B	House Resident	<input checked="" type="checkbox"/> C Surgeon
	D	Surgical Nurse	E	Surgical Technician	

83	A 44 year old man was found dead at his residence with two gunshot wounds on his chest. Which inquest system will be used to investigate this case		
	A Coroner's Inquest	B <input checked="" type="checkbox"/> Magistrate's Inquest	C Medical Examiner's System
	D <input checked="" type="checkbox"/> Police Inquest	E Procurator Fiscal	
84	A group of hikers came across the skeletal remain of a human. The same was shifted to Department of Forensic Medicine for examination. Which of following will help the examiner to study the gender most accurately?		
	A By doing radiological studies	B By examining height and width of nose	C By examining the muscle attachments of pelvis
	D <input checked="" type="checkbox"/> By studying pelvis, base of skull, forehead and jaw		E By using certain formulas
85	In an incident reported to Pakistan Medical Commission (PMC), wherein a surgeon was reported to operate on a major surgery without specialist anesthetist. The disciplinary board at PMC awarded Professional death sentence to the concerned surgeon. Which of the following is true regarding professional death sentence?		
	A Death by hanging	B <input checked="" type="checkbox"/> Erasing of name from the medical register	C Imprisonment for life
	D Monetary fine		E Rigorous Imprisonment
86	A convict whose family or relations were not known and no biological samples were available with jail authorities escaped from the jail. A dead body reassembling him was found in the nearby forest, but the face was mutilated. His positive identity can be determined by which of the following techniques?		
	A Anthropometry	B Blood group	C DNA Profiling
	D <input checked="" type="checkbox"/> Fingerprinting		E HLA typing
87	A case of poisoning was brought to a tertiary care Hospital. On duty doctor is a Junior House Officer. A detailed history for the case was presented to the on call doctor and he advised the HO to start with hydration and Universal Antidote. Talking about Universal Antidote, which of the following is found to be in highest concentration?		
	A Ground mustard	B Magnesium oxide	C <input checked="" type="checkbox"/> Powdered charcoal
	D <input checked="" type="checkbox"/> Tannic acid		E Water
88	In a Primary Healthcare Center, a critical suicidal poisoning case was brought in for management. What is the foremost duty of a Registered Medical Practitioner?		
	A Call the girlfriend and inquire history	B <input checked="" type="checkbox"/> Emergency treatment	C Inform magistrate
	D <input checked="" type="checkbox"/> Inform police		E Not required to inform authority
89	A case of suicidal poisoning was brought to the emergency department of a tertiary care hospital. The on duty doctor decided to do Gastric Lavage. In which of the following poisoning Gastric Lavage is indicated?		
	A <input checked="" type="checkbox"/> Carbolic Acid	B Convulsant Poisoning	C Hydrochloric Acid
	D Oxalic Acid		E Sulphuric Acid
<b>COMMUNITY MEDICINE</b>			
90	The Directorate General of Health has received a grant to establish a vertical program for a disease. They decide to select a disease with long prevalence period and high degree of pathogenicity. Which disease will they select out of the following?		
	A Chicken pox	B Measles	C Mumps
	D Rubella		E <input checked="" type="checkbox"/> Tuberculosis
91	Comprehensive primary health care strategy was developed to achieve the goal of 'Health for All 2000' by giving universal health coverage. However, after some time it was realized that 'selective primary health care' strategy would be a better option for most of developing countries. Why do you think it was adopted?		
	A Donor countries lack of full support	B Lack of community participation	C <input checked="" type="checkbox"/> Lack of finances so that all factors could not be addressed
	D Most of the factors in comprehensive PHC were fulfilled		E Those which were left were considered unimportant
92	Hepatitis B is one of the most common chronic infections in Pakistan leading to serious complications. What is the incubation period of Hepatitis B?		
	A 1 month before and 3 months after the onset of infection	B 3 months before and 3 months after the onset of infection	C 3 months before and 6 months after the onset of infection
	D 1 week before and 1 week after the onset of infection		E 2 weeks before and 2 weeks after the onset of infection

Wrong incubation cannot be before infection



93	Suppose the Government wants to collect morbidity data from the districts in order to allocate the resources equitably. However it does not have sufficient human resource and time to conduct a detailed survey. Which one of the following indicator can the Government obtain quickly from the DHQs to know about the morbidity status?				
	A Admission & discharge rates from hospitals per month	B Monthly expenditure of the hospital	C Number of functioning BHUs attached with the DHQ		
	<input checked="" type="checkbox"/> D Total deaths in admitted patients per month	E Total number of surgeries performed per month			
94	Neonatal mortality is high in Pakistan mainly due to infections and malnutrition as mentioned in the given options. In which one of them infectivity, pathogenesis and virulence are all high?				
	A Diarrhea	B Diphtheria	C Malnutrition		
	D Pertussis	E Tetanus			
95	An epidemiologist is doing a research work on a disease with a very high secondary attack rate. Which disease is he working on?				
	A Enteric fever	B Hepatitis	C Malaria		
	<input checked="" type="checkbox"/> D Sars Cov 2	E Tuberculosis			
96	Amoebic cysts are commonly found in water in our region due to its better survival in hot and humid weather but these cysts are not destroyed by ordinary processes of disinfection. What process is most effective to kill amoebic cysts in water to prevent amoebic dysentery?				
	A Boiling	B Chloramine treatment	C Potassium permanganate treatment		
	D Simple chlorination		E Super chlorination		
97	Suppose you are working in a senior position in the Directorate General of Health office. The Government wants to expand the health network in rural areas. You are asked to prepare feasibility report for a new BHU. What advise will you give regarding the maximum radius in which a BHU should be present within the population it serves?				
	A Less than 2 km	B 05 - 10 km	C 20 - 30 km		
	<input checked="" type="checkbox"/> D 30 - 40 km		E 40 - 50 km		
98	One of the basic principles of primary health care is that all health facilities and resources should be distributed according to the needs of the community instead of equality or centralization. Which of the following indicates this principle?				
	A Appropriate technology	B Effectiveness	C Efficacy		
	D Efficiency		<input checked="" type="checkbox"/> E Equity		
99	In the new era, the management of diseases is preferred not by treatment but by prevention at different levels. Nutritional deficiency disorders can also be prevented before they have appeared. What will be the most suitable strategy for their prevention?				
	A Early diagnosis	B Early treatment	C Health promotional behavior		
	D Rehabilitation		<input checked="" type="checkbox"/> E Specific protection strategy		
100	A district health officer was asked to devise a generalized strategy for the control of water borne diseases. At which of the following levels of prevention would he act to achieve this?				
	A Early diagnosis	B Early treatment	C Health promotional behavior		
	D Rehabilitation		<input checked="" type="checkbox"/> E Specific protection		
101	Suppose a cook in a restaurant suffered from enteric fever. The administration advised him to exercise extra caution for several months after recovery. Why do you think they have done like this?				
	A Enteric fever shows active infection state for a year	B <input checked="" type="checkbox"/> Enteric fever shows convalescent carrier state	C Enteric fever shows hypersensitivity reactions		
	D Enteric fever shows latent infection		E Enteric fever shows prodromal carrier state		
102	Anthrax though not a very common disease, has acquired significance due to its potential as a weapon of biological warfare. Which route causes almost 100% mortality to label it as a biological weapon?				
	A Cardiac	B Cutaneous	C Gastrointestinal		
	D Hepato-renal		<input checked="" type="checkbox"/> E Pulmonary		
103	WHO has given a grant to the government to start control and prevention program for a disease with very high incidence, short incubation period, and highest virulence. Which disease will they select?				
	A AIDS	B Hepatitis	C Leishmaniasis		
	D Rabies		<input checked="" type="checkbox"/> E Tuberculosis		
(104)	In rural areas of pak stray dogs are very common causing frequent cases of rabies which of many even die before receiving 1st aid. Most effective way to prevent rabies is avoiding contact with potential resources. b) higher education of general public c) killing of stray animals.				

104 In rural areas of Pakistan stray dogs are very common causing frequent cases of rabies, many of which even die before receiving first aid. What is the most effective method of prevention against rabies?

A Avoiding contact with potential sources	B Health education of general public	C Killing of stray animals
<input checked="" type="checkbox"/> D Prophylactic vaccination of domestic animals	E Prophylactic vaccination of pet dog owners	

**VERTICAL INTEGRATION**

105 A 55 years old female patient presented with decrease vision and watering in the left eye. On examination, the patient has mature cataract in the left eye with positive regurgitation test of mucopurulent discharge on left side. Which procedure you will prefer to do first?

A Cataract surgery	B Combined cataract surgery and dacryocystorhinostomy	C Dacryocystorhinostomy surgery only
D Give antibiotics for chronic dacryocystitis and do cataract surgery		<input checked="" type="checkbox"/> E Probing

106 A 13 year old patient was brought to emergency room by his parents complaining of fever, severe pain in throat and difficulty in swallowing for the last 3 days. On examination, both tonsils were covered by white follicles. His total leukocyte count was raised. What is the most likely diagnosis?

A Acute pharyngitis	B Acute tonsillitis	<input checked="" type="checkbox"/> C Acute follicular tonsillitis
D Diphtheria infection		E Membranous tonsillitis

107 A 12 years old child was brought with complaint of irritation of eyes that is most severe in summer season and recurrent. On examination, visual acuity was 6/12 in right eye and 6/9 in left eye. On eversion of lid giant papillae, conjunctival congestion most marked in the limbal region with associated pseudogerontoxon was seen. What is the most probable diagnosis in this case?

A Adenoviral conjunctivitis	B Bacterial conjunctivitis	C Gonococcal conjunctivitis
D Trachoma		<input checked="" type="checkbox"/> E Vernal keratoconjunctivitis

108 The birth record of a Gynae/Obs ward for one month showed that 20 newborns were underweight, 100 of normal weight and 5 were overweight. Which type of variable is mentioned in this record?

A Continuous	B Dichotomous	C Discrete
D Nominal		<input checked="" type="checkbox"/> E Ordinal

109 A 58 years old man has undergone uneventful phacoemulsification surgery for cataract in his right eye. After 3 days he presented with severe pain and loss of vision in the right eye. On examination, he was having visual acuity of perception of light in right eye and 6/9 in left eye. He was having congested conjunctiva, hazy cornea and hypopyon with no view of the posterior segment of the eye. What is the most probable diagnosis?

A Acute angle closure glaucoma	B Loss of lens fragments into posterior segment of the eye	<input checked="" type="checkbox"/> C Post-operative endophthalmitis
D Post-operative uveitis		E Post-operative vitreous hemorrhage

110 A 17 year old patient was presented to OPD with complaints of nasal obstruction, facial fullness and headache for the last 4 days. On examination, he has mucopus in both nostrils and tenderness over the cheeks. What will be the most suitable investigation to diagnose this case?

<input checked="" type="checkbox"/> A CT Scan Paranasal Sinus	B MRI Paranasal Sinus	C Nasal endoscopy
D Pus for culture and sensitivity		E X Ray Paranasal Sinus

111 A 17 year old boy presented to OPD with nasal obstruction and headache for the last 7 weeks. On examination septum was deviated to the right side. CT scan showed nasal spur to the right side and mucopus in his right maxillary sinus. What is the most likely diagnosis in this case?

A Antrochoanal nasal polyp	B Ethmoidal polyp	C Migraine
D Septal hematoma		<input checked="" type="checkbox"/> E Sinusitis

112 Third year medical students were engaged in a research study to find the co-relation between smoking and lung cancer. While setting objectives for their study, which of the following characteristic of objectives should be kept in mind?

A Complex	B Costly	C Independent of time
<input checked="" type="checkbox"/> D Measurable		E Over-ambitious

113 A 36 year old ex-smoker presented with the complaints of recurrent burning pain in his throat for the last 9 years. He had a history of water coming to the mouth after meal. On examination, there was a post-nasal pus, congested tonsils and granules in oropharynx. What is the most likely diagnosis in this case?

A Acute tonsillitis	B Chronic tonsillitis	<input checked="" type="checkbox"/> C Chronic pharyngitis
D Maxillary sinusitis		E Viral pharyngitis

114	If a patient has traveled recently to a North African country, a fever that occurs every other day (tertian) or every 3rd day (quartan) may suggest which of the following diagnosis?		
	A Enteric fever	B Epstein Barr virus	C HIV infection
	<input checked="" type="checkbox"/> D Malaria	E Osteomyelitis	
115	A 35 years old male presented to Eye OPD with sudden loss of vision in his right eye. He had a history of trauma to the right eye with a cricket ball 1 month ago. On examination, his visual acuity was 6/36 in right eye and 6/6 in left eye. He had a right eye RAPD (Relative Afferent Pupillary Defect). What is the most likely cause of his right eye RAPD?		
	A Cataract	B Episcleritis	C Keratitis
	<input checked="" type="checkbox"/> D Retinal detachment	E Scleritis	
116	A 26 year old woman was admitted 7 days after having a Caesarean section, which was performed for prolonged labor. She was generally unwell, complaining of a foul-smelling vaginal discharge. On examination, she had a temperature of 39.0°C. Abdominal examination revealed supra pubic tenderness. Vaginal examination confirms the offensive discharge and uterine tenderness. What is the most probable cause of fever?		
	A Endometritis	B Pelvic inflammatory disease	C Retained products of conception
	<input checked="" type="checkbox"/> D Surgical wound infection	E Urinary tract infection	
117	A 16 years old boy presented with decreased vision in both eyes associated with headache. On examination, his visual acuity was 6/24 in both eyes and using -2.00DS. What is the type of refractive error in this patient?		
	A Simple hypermetropia	<input checked="" type="checkbox"/> B Simple myopia	C Hypermetropic astigmatism
	D Myopic astigmatism	E Mixed astigmatism	
118	A 6 year old male child presented to the emergency department with pain in the right iliac fossa, fever and vomiting for the last two days. On examination, there was tenderness and rigidity in the affected area. Investigation revealed raised total leukocyte count (TLC) and normal urine examination. What is the most likely diagnosis?		
	<input checked="" type="checkbox"/> A Acute appendicitis	B Acute cystitis	C Psoas abscess
	D Right uretic stone	E Testicular torsion	
119	While teaching the topic of pyrexia of unknown origin (PUO), the teacher grades which of the following condition as most common cause of PUO in our country?		
	A Brucellosis	B Enteric Fever	C HIV/AIDS
	D Malaria	<input checked="" type="checkbox"/> E Tuberculosis	
120	A group of 3rd year medical students have been asked to formulate a health-related research synopsis. What will be the first step in the conduction of Health System Research?		
	A Affordability	B Literature search	<input checked="" type="checkbox"/> C Problem identification
	D Statement of the problem	E Setting of aim and objectives	

The end

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