a. Is seen after tuberculosis b. Caused by IgG c. Cannot lead to death d. Occurs as a result to reaction to penicillin e. Takes many days to develop.	
 30-60 minutes after being bitten by a "bug", a 26-year-old man noticed a localized swelling and erythema in the affected area. The edema is most likely the result of: a. Altered plasma oncotic pressure b. Increased arterial hydrostatic pressure c. Increased vascular permeability — d. Lymphatic obstruction e. Increased plasma protein levels. 	
 41. A patient is scheduled to have a chronic abscess incised and drained. What would you expect microscopic examination of the contents of the abscess to most likely show? a. Lymphocytes and macrophages b. An area of caseous necrosis c. Any area of coagulative necrosis d. Neutrophils, lymphocytes, & plasma cells d. Neutrophils, lymphocytes, & plasma cells 	
e. An acute inflammatory infiltrate of PMNs 42. Which of the following would you expect to find in the alveoli in a patient with pneumococcal pneumonia of 24 hours duration? a. Serous inflammation b. Fibrinous inflammation c. Fibrino-purulent inflammation e. Serofibrous inflammation e. Serofibrous inflammation 43. A 45-year-old woman has a lung biopsy because of a 1.0 cm lesion seen on a chest x-ray. Histologic examination reveals epithelioid macrophages and lymphocytes around a focus of caseous necrosis. What is the best explanation for this form of necrosis? a. Granulomatous inflammation. b. Complement fixation c. Local histamine release d. PMNs releasing degradative enzymes e. Suppurative inflammation	
4. Which of the following events in acute inflammation occurs first? a. Chemotaxis b. Emigration c) Hemostasis d. Margination e. Phagocytosis	

3. Alterations in normal blood f	ow and endothelial injury may lead to,
a. Sickle cell anemia	my lead to,
b. Cardiomyopathy	
c. Hypersensitivity	
(d.) Thrombosis	
e. None of the above	
	d Navid
its point of origin is known a	d, liquid, or gaseous mass that is carried by the blood to a site distant from
a. Thrombosis	5,
(b.) Embolism —	
c. Infarction	AND ASSESSED FOR PROPERTY AND ADDRESSED FOR THE PARTY OF
d. Necrosis	
e. Gangrene	
35. Red Infarcts occur in:	
a. Heart	
Spleen	
c. Kidney	and the second second and the second
(d) Intestine	
e. None of the above	goes surgery for the fractures of pelvis after motor vehicle accident. The
a. Air embolism b. Amniotic fluid embolism c. Fat embolism d. Paradoxical embolism e. Thrombotic embolism.	goes surgery for the fractures of perms and a what do u think is the cause.
	onary artery. Grossly the mass is gelatinous and has a chicken aft appearance wall and lines of Zahn are absent. What is the mass actually
b. Post mortem hematoma	
c Premortem embolic hema	ntoma
d. Premortem non embolic	hrombus.
e. Premortem embous.	
38. Edema of the dependent pa	arts of the body is a prominent feature of
a. Brain edema	9
6 Congestive cardiac failur	
c. Nephrotic syndrome	
d. Periorbital edema	
e. Pulmonary edema.	
AND REAL PROPERTY.	

- 77. A 10-year-old black man with a known history of sickle cell disease presents to the emergency department complaining of left upper quadrant pain suggestive of a splenic infarct. Microscopic a. Caseous necrosis b. Coagulative necrosis c. Fibrinoid necrosis d. Gangrenous necrosis e. Liquefactive necrosis 28. You are asked to review an electron micrograph of a section of liver from a chronic alcoholic which of the following is an example of an irreversible injury? a. Cellular edema b. Chromatin clumping c. Cytoplasmic inclusions d. Mitochondrial swelling (e.) Rupture of cell membrane 29. You are asked to review a liver biopsy from a patient with history of alcohol abuse. Which of the following pathologic changes will most likely be present in this case. (a.) Fatty change in liver cells b. Hydropic change of hepatocytes c. Karyolysis in myocardial cells d. Glycogen deposition in hepatocytes nuclei e. lipofuschin deposition 30. The action of putrefactive bacteria on necrotic tissue results in a. Coagulation b. Infarction (c.) Gangrene d. Embolism e. Caseation 31. Dystrophic calcification a. Occurs in normal tissues b. Is associated with hypercalcaemia c. Is seen in vitamin D related disease (d.) Occurs in atheromatous disease
 - e. May be a part of the milk alkali syndrome
 - 32. Regarding hyperplasia which statement is correct?
 - a. It is never seen in the same tissue as hypertrophy
 - b. it is seen in cardiac muscle in hypoxic patients
 - c.\ it is limited to cells capable of mitotic division
 - d. it is rarely physiologic
 - e. complete removal of excess hormone triggers will slow progression but not reverse hyperplastic changes

clarry

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2



THE SUPERIOR COLLEGE, LAHORE

3rd PROFESSIONAL MBBS Annual EXAMINATION 2018 PATHOLOGY SEQ's

Time Allowed: 2 hours

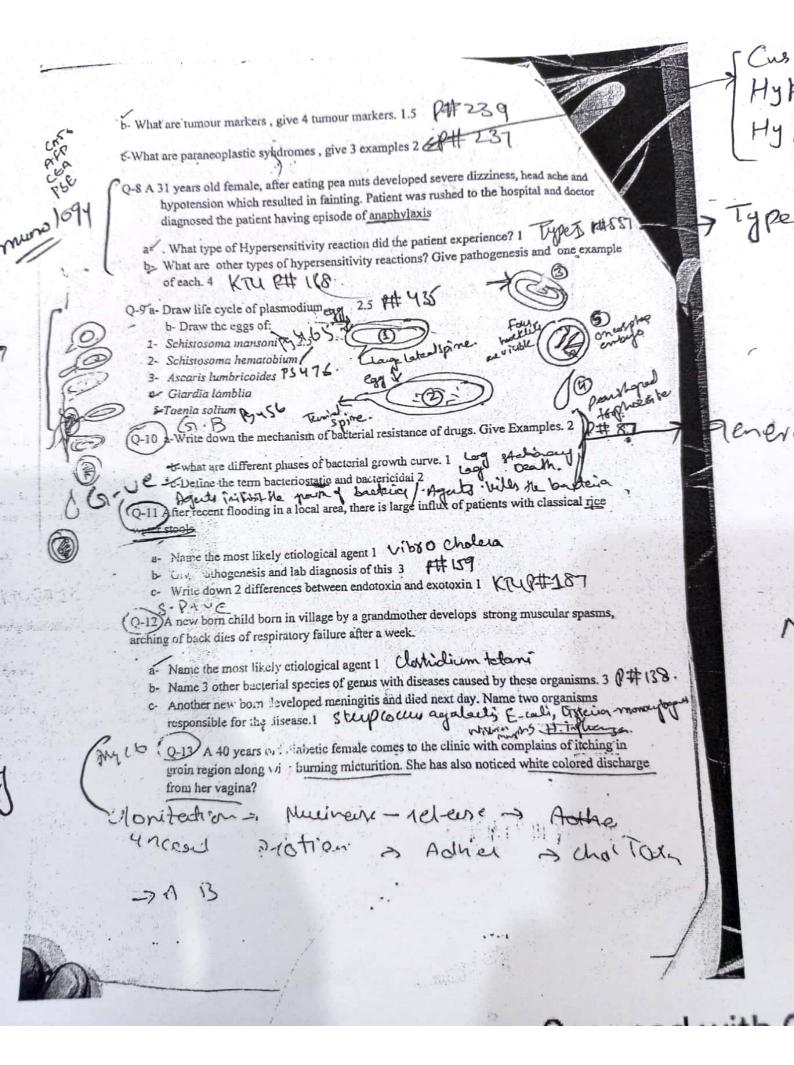
Roll No. 65.136 Total Marks: 75

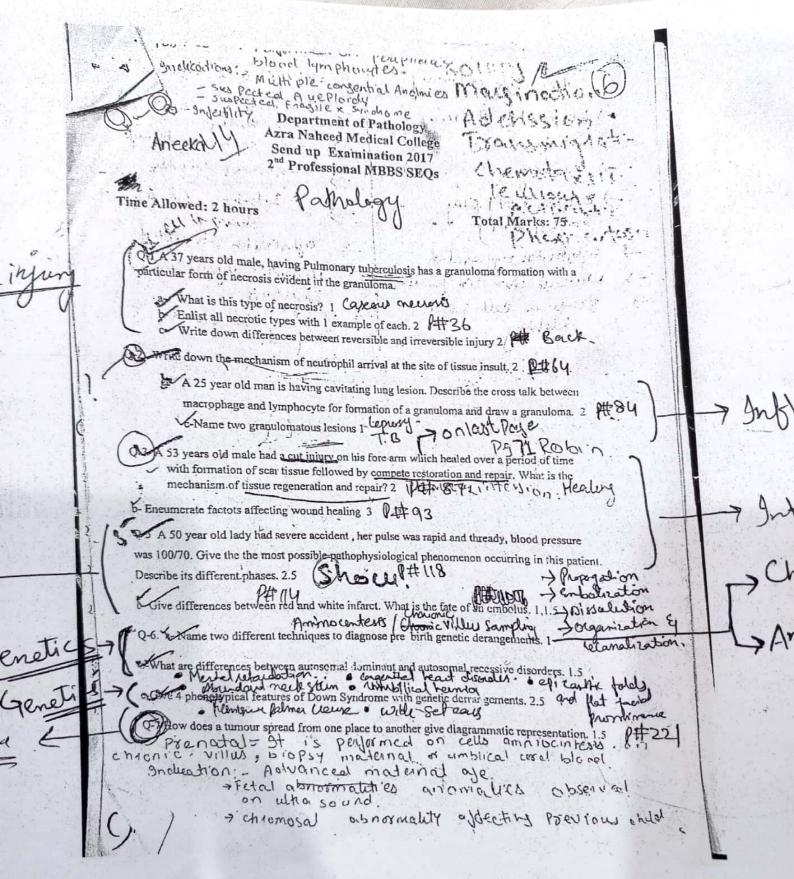
Instructions

- Attempt all questions.
- Ail question carry equal marks.
- 3. The SEQ's part is to be submitted within 2 hours, Extra time will not be given.
- Neat Hand Writing use of margin and marker for headlines will increase the presentation of your

Do not write your name or disclose your identity in anyway. a) Which pigment is accomplated in such a condition? hemosiderin \$1 b) Enlist any FOUR other intracellular accumulations with their associated diseases. Carial Fat, glycos en Protein, Pigments madanin Q-No: 2. A 12-year-old boy presents with a 24-hour history of severe abdominal pain, nausea, vomiting, and low-grade fever. The pain is initially periumbilical in location but has migrated to the right lower quadrant of the abdomen, with maximal tenderness elicited at a site one third between the crest of the ileum and the umbilicus (McBurney point). a) What is the type of inflammation? > Purulent Gbs phagocytosis
b) Enlist functions of all major complement proteins in inflammation.
Sa inflammatic chemotoxis Mac > Direct Killing

(4-No: 3. A 47-year-old man presents with pain in the mid portion of his chest. The pain is associated with eating and swallowing food. Endoscopic examination reveals an ulcerated area in the lower portion of his esophagus. Histological sections of tissue taken from this area reveal an ulceration of the esophageal mucosa that is filled with blood, fibrin, proliferating blood vessels, and proliferating fibroblasts. (a) Which term would best define such tissue? Enlist any TWO major differences between Primary and secondary healing. Q-No: 4. a) Enlist any THREE Tumor suppressor genes with their associated Tumors. b) How does a p53 gene work? Briefly describe in your own words. COKJA COKIB activation of a temporary cell cycle COKIC, Purna arrest of permanent cell cycle BAX arrest of a programmed cell death.





Scanned with Ca

- 21. C. diphtheriae causes diphtheria, a rare disease in the adults in Pakistan. C. diphtheriae is best characterized by which of the following statements?
 - a.It secretes erythrogenic toxin that causes the characteristic signs of scarlet fever
 - b.It produces toxin that blocks protein synthesis in an infected cell and carries a lytic bacteriophage that produces the genetic information for toxin production
 - c.It requires cystiene for growth
 - d.lt secretes exotoxin that has been called verotexin and Shiga-like toxin
 - e.It produces at least one toxin consisting of two subunits, A and B, that cause severe spasmodic cough usually in children
- 22. Tetanus is a disease caused by clostridium tetani. Which of the following statements is not justifying the characteristics of disease?
 - Is due to an infection with a gram- negative spore forming rod
 - The organism produces a powerful endotoxin
 - The toxin prevents the release of inhibitory neurotransmitter
 - d. Clostridium tetani is sensitive to penicillin
 - e. Risus sardonicus is the typical fascial spasm
- 23. Which of the following Gram positive rod is weakly acid fast?
 - a. Clostridium botilinum
 - b. Actinomycetes israelii
 - (c.) Nocardia asteroides
 - d. Corynebacterium diphtheriae
 - e. Gardneralla
- 24. A patient is admitted with severe substernal chest pain of 4 hours duration. Lab tests reveal increased level of the serum creatine kinase. This is most likely due to:
 - a. Mitochondrial swelling
 - b. Nuclear lysis
 - C Damage of plasma membranes
 - d. Increased endoplasmic reticulum
 - e. Increased Golgi activity.
- 25. You are asked to participate in a research project on myocardial infarctions in a rat model. Which of the following occurs in ischemic cell injury?
 - a. Efflux of K+ and Na+
 - b. Influx of K+ and Ca++
 - c. Influx of K+ and H2O
 - (d.) Influx of Na+ and Ca++
 - e- Influx of Na+ and K+
- 26. Cell death caused by autolysis is produced by
 - a. Antibodies
 - (B.) Endogenous enzymes
 - c. Phagocytic leukocytes
 - d. Bacterial enzymes
 - e. Anoxia

16. A patient presented with pseudomembranes in the throat leading to respiratory distress. The organism obtained was a Gram positive rod with metachromatic granules. Name the causative agent: a. Nocardia b. Actinomycetes israelii Bacillus anthracis Corynebacterium diphtheriae e. Listeria monocytogenes 17. A young married woman was received in gynae department with history of increased amount of thin, grey-white, fishy vaginal discharge for the last few days. Gram staining revealed clue cells. Whiff test was also positive. Which one of the following is the most likely causative agent? a. Candida albicans b. Trichomonas vaginalis c. Gardnerella vaginalis d. Lactobacilli e. Gonococci 18. A pre-mature baby boy developed meningitis one week after birth. Mother had history of ingestion of unpasteurized milk and cheese. Gram staining of CSF revealed L-shaped Gram positive rods having

19. A patient developed Scarlet fever; characterized by skin rash with sandpaper like texture, strawberry tongue, pallor, and subsequent desquamation. The organism obtained on blood culture was Beta

20. An immune-compromised chronic diabetic patient had to go for amputation of his foot after he

zone of hemolysis on blood agar and positive Nagler's reaction. Pick the causative agent:

developed gas gangrene. The organism isolated from the pus was a gram positive rod, showing double

tumbling motility. What is the most likely causitive agent?

hemolytic, Lancefield group A. What is the causative agent?

a. Neisseria meningitidis
b. Streptococcus pneumoniae
c. Listeria monocytogenes
d. Streptococcus agalactiae

e. E.coli

a. S. aureus
b. S. pyogenes
c. S.epidermiditis
d. S. pneumoniae
e. viridans group

a. Clostridium difficile

d. Clostridium botilinum e. Bacillus anthracis

b. Corynebacterium diphtheriae
c.) Clostridium perfringens

- 11. A patient was hospitalized after an automobile accident. His wounds became infected and treated with tobramycin, carbenicillin, and clindamycin. Five days after antibiotic therapy initiation, parient developed severe diarrhea and enterocolitis. Antibiotic associated diarrhea and the more serious pseudomembranous colitis can be caused by: a. Clostridium botulinum b. Clostridium perfringens c. Clostridium difficile d. B.cereus e. B. fragilis 12. A 65 year old male presents with cold like symptoms for at least 3 days. He also has chills, chest pain and productive cough with bloody sputum. Blood agar reveals alpha hemolytic colonies. Quelling test
- is also positive. Which of the following is the most likely cause?
 - a. Corynaebacterium
 - b. Enterobacter spp
 - c. Hemophilus
 - d.) Streptococcus pneumoniae
 - e. Klebsiella pneumonia
- 13. A 15 year old girl develops a sore throat, fever and earache of approximately 1 week duration. Upon examination by her physician an erythermatous rash is noted covering most of her body and her tongue appears like a strawberry. Which of the following is most likely the cause?
 - a. Streptococcus pyogenes
 - (b.) Staphylococcus aureus
 - c. Staphylococcus agalactiae d. Streptococcus pneumoniae
 - e. Staphylococcus epidermidis
- 14. Mr. Hamid brought a canned Tuna fish to prepare burger. After eating this burger he had nausea, vomiting, diarrhea with diplopia, dysphagia, weakness of facial and respiratory muscles (descending paralysis) but no rise in temperature. Symptoms of C. botulinum food poisoning developed 36 hrs after ingestion of burger. These symptoms are consistent with:
 - a. Invasion of the gut epithelium by C. botulinum
 - b. Secretion of an enterotoxin
 - c. Endotoxin shock
 - (d.) Ingestion of a neurotoxin causing flaccid paralysis
 - e. Activation of cyclic AMP
- 15. A young female presented with signs and symptoms of urinary tract infection. Urine culture revealed Gram positive cocci, showing catalase and coagulase test negative. Which test distinguishes S.epdermidis from Staph saprophiticus?
 - a. Catalase test
 - b. Optochin sensitivity test
 - c. Coagulase test
 - d. DNase test.
 - (e.) Novobiocin sensitivity test





6. A grandmother applied cow dung to the umbilical stump of a new born boy. He developed muscular spasms and pronounced arching of the back. What is the typical means of transmission of a toxin produced by this organism, which blocks the release of inhibitory transmitter GABA and glycine?

a. Eating home canned foods

b. Fecal oral, travel to foreign country

Infant given honey during first year of life d.) Puncture wound or road traffic accident

- e. Respiratory, with incomplete vaccination history
- 7. Several postal workers came down with symptoms of dyspnea, cyanosis, and hemoptysis and chest pain. Chest X-ray reveals mediastinal widening. Sputum cultures are negative for all routine respiratory pathogens. Serology correctly identifies the causative agent as bacillus anthracis. Which of the following structures possessed by the causative agent is responsible for transmission of disease?
 - a. Elementary body
 - b. Endotoxin
 - c. Periplasmic space
 - d. Reticulate body
 - (e.) Spores
- 8. Four to Five hours after eating fried rice at a restaurant, a 24 year old woman and her husband both developed nausea, vomiting, and diarrhea. Which one of the following organisms is the Most likely to be involved?
 - a. Clostridium perfringens
 - b. C botulinum
 - (c.) Bacillus cereus
 - d. C diphtheriae
 - e. L monocytogenes
- 9. A patient complains to his dentist about a draining lesion in his mouth. A gram stain of the pus shows leukocytes, and many branching gram-positive rods. Branched yellow sulfur granules are observed by microscopy. Which of the following is the most likely cause of the disease?
 - (a.) Actinomycetes israelii
 - b. Nocardia
 - c. G. diphtheria
 - d. Propionibacterium aenes
 - e. S. aureus
- 10. After extraction of a wisdom tooth, an 18 year old male student is diagnosed with subactue bacterial endocarditis. He has a congenital heart disease that has been under control. Which of the following is the most likely organism causing his infection?
 - a. S. aureus
 - b. S. epidermidis
 - c. S. pneumonia
 - (d.) Streptococcus viridians
 - e. E. faecalis