

a. What fungal infection can cause this disease? 1 b. What is the condition patient suffering from? 0.5 c. What are the other presentations of infection with this fungus? 1.5 d- Name fungal disorders common in immunocompromised patients 2 Q-14 a) Describe pathogenesis and the clinical spectrum of infection by dengue virus? Visalology) b) How will you confirm diagnosis in laboratory? CBC, wBC, Platelets, hencetocoit

Vibils isolation Law rule of the Confirm diagnosis in laboratory? CBC, wBC, Platelets, hencetocoit

C-Name 2 oncogenic viruses with associated tumours. I HIV AIDS HBU, HCU, HPUEB Q-15 A 14 year old girl develops rapidly spreading, painful, erythematous rash on her leg. The rash was warm and tender and her temperature was 38oC. Gram positive cocci were seen in the aspirate from the lesion. Culture of the aspirate on the blood agar grew colonies surrounded by \beta- hemolysis. Growth of the organism is inhibited by bacitracin. - Stoeptocous Pyogens (a) What is your most likely diagnosis? (b) Enumerate the mechanism and prominent clinical features of two immunologic diseases caused by this organism. Rhemetii fenes = Scoolet-fenes =

THE SUPERIOR COLLEGE, LAHORE

2nd PROFESSIONAL MBBS Annual EXAMINATION 2017 PATHOLOGY (SEQ's)

Time Allowed: 2 hours

Roll No. ____ Total Marks: 75

Instructions

- 1. Attempt all questions.
- 2. All question carry equal marks.
- 3. The SEQ's part is to be submitted within 2 hours, Extra time will not be given.
- 4. 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.

Q-No: 1. A 70 years old male was found to have stenosis of right renal artery which caused shring	nkage
of eight bidges	1
a- Which process actually caused his kidney to shrink? Atoophy	4
b- What are other different adaptations which can happen, give types and examples	
Q-No: 2. A 35 year's old female devaloped skin blister on her foot while spilling of hot oil while	
cooking.	1
a- Name the morphological pattern of inflammation in this case. case se cours	3
b- What are sequence of events during the process of inflammation? - Migrael	1
c-Name two types of granulomatous inflammation. 25 Books	+
Q-No: 3. A 50 years old diabetic female had a deep cut on her hand. The wound fail to heal.	
a- What is the cause of delayed wound healing in this case.	1
b- List 2 local and 2 systemic factors affecting wound healing.	2
C- What is keloid? 800 & overscorporation beyond to bouckel	2
Q-No: 4. A 25 year old female gave birth to a baby by C- section.	
a- What kind of wound healing will occur in this case.	-
b- what are the different types of wound healing	1
c- what are the common organisms to cause infection in these national	2
STANDINGUS HIGHST VICKNIS PAINA NCIAL	2
Q-No: 5. A child is brought to a doctor and he notices that the baby has flat facies, epicanthal	folds
Siamese crease, umblical hernia, and hypotonia with increased gap between 1st and second toe a- What is the most likely diagnosis? Daons yudboug	
b- Give its genetic make upt (XX).	1
c- Write down 2 differences between autosomal dominant and autosomal Recessive	2
disorders.	
O No. 6. A 5 years old shild has any	2
Q-No: 6. A 5 years old child has seasonal allergies. He develops swelling and itching after a	
Ca. What is the type of hyperson-it-it-	
b Draw a table and write down different types of hypersensitivity reactions with the immunomechanisms. (Stodes)	1
immunomechanisms. C Rol col > 10	r
(Restable ()	4
0 10 NO: 08 0 tu	
Sendup 20H2)	T
	1-

By Stell in cell and Q-No: 7. a. Define following terms Metapalsia Carcinoma In-situ 2 Hamartoma Q-No: 8. A 40 years old female presented with lump in the breast with wide spread metastasis. Ja- Draw and label the mechanism of spread of tumour. 221 b- What are different modes of spread of tumours? Q-No: 9. A 60 years old diabetic patient was admitted to the hospital for the treatment of diabetic foot. His blood was cultured, which revealed Staphylococcus epidermidis showing high level of a- In this situation, will this bacteria act as flora or pathogen? Explain. resistance to a wide range of a antibiotics: c- write two mechanisms of antibiotic resistances s 5 Detto 5 Ceological State of the State of t b- Give the importance of lactobacillus as normal florar (2) Q-No: 10. A 27 years old mother gave birth to her first child. The father is homozygous RhD positive and the mother is homozygous RhD negative. Her baby is born without any complications and she was not administered anti Rh IgG. 15 months later she gave birth to her 2nd child, who is anemic, slightly jaundiced and has an enlarged spleen and liver. fit in compost billity. a) Which type of hypersensitivity reaction describes this condition? Type IT Cytopo you's b). Give the immunological basis of this condition. Hykosangitivity type I b) Give the immunological basis of this condition in this patient. c) Give two other example of this type of hypersensitivity. Q-No: 11. A 60 years old man presented with severe chest pain after doing a long jog. He is also diabetic. He is taken to emergency and thrombolytic therapy is given. a- What is a thrombus? Name different factors involved in its formation. 107 b- What are different types of Embolism? 1/2-Q-No: 12. A 29-year-old female is brought to the hospital with history of delirium, sustained fever of up to 102°F for the last 2 days, headache, myalgia and constipation which began 11 days back. Physical examination revealed enlargement of spleen as well as the liver, diffuse abdominal tenderness & peculiar rose spots on the chest and neck. Colonies of a Gram-negative non-lactose fermenting rods Gram are seen. The physician asks for a stool sample to complete the diagnosis. S. Typhi a) Which organism is most likely to be identified in her stool to cause the disease? rods b) What is the pathogenesis of the disease? Paper 2 c) Discuss the laboratory diagnosis. Paper Q-No: 13. A 45 years old lady presented with abnormal uterine bleeding. Ultrasonography reveals an adenocarcinoma a- Write down differences between benign and malignant neoplasm by which this tumour can be categorized. Pages b- Name 2 benign epithelial tumours and 2 malignant mesenchymal tumours. 192 Q-No: 14. A 20 years old farmer develops periodic bouts of fever with chills and rigors occurring every 36-48 hours. He is anemic on appearance and has splenomegaly. His peripheral smear shows a) What is the most likely diagnosis? b) How will u diagnose this case in laboratory? - Giemsa stain Corebral malinian

c) What are its complications?

Q-No: 15. Define mutation.

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D) Name three chromosomal disorders with associated genetic mutations.

2) Corebral malinian

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THE SUPERIOR COLLEGE, LAHORE

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Roll No. Total Marks: 75

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	Q-No: 7	. a. Define following terms		
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	- 0) How will u diagnose this) What are its complication -No: 15. Define mutation.	ins? → ELISA	2
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MAZAR M- HASNAIN Department of Pathology Azra Naheed Medical Colle Send up Examination 2017 Toressional MBBS MCOs M. Rizuan Total Marks: 60 Time Allowed: 1 hours 22 years old female has a congenital anemia that has required multiple transfusions of RBC's for any years. On examination, she has no specific findings, however Liver function tests thoe reduced amount of albumin. Liver biopsy specimen would reveal brown color substance/in repatocytes. What is the most likely substance Steatosis in hepatocytes Bilirubin in canaliculi c. Glycogen in hepatocytes Amyloid in portal triads A 55 years old obese male experienced an episode of chest pain) 6 hours before his death. A histological section of left ventricular myocardium taken at autopsy showed a deeply osinophilic staining area with loss nuclei and cross striations in myocardium. There was no mis rhage or inflammation. Which of the following caused the above mentioned? onary artery thrombosis Cosouloupes telly Thomas bossis, c. Biunt chest trauma d. Antibodies against myocardium e. Protein deficient diet A 70-year-old man with hypercalcemia died suddenly At autopsy, microscopic examination showed noncrystalline amorphous deposits of calcium salts in eastric mucosa, renal terstitium, and alveolar walls of lungs. Which of the following conditions would most likely ain these finding Metastatic calcification Dystrophic calcification Aging > FAHAD Normal process Generalized atherosclerosis. e Bo

4. A tissue preparation is experimentally subjected to a hypoxic environment. The cell in this tissue began to swell and chromatic material to chimp. ATP production decreases. Which of the following ion released from mitochopdria leads to these findings and to cell death? b. Chloride c. Bicarbonate d. Potassium e. Na New) 5. A23 year old female experiences onset of menstrual bleeding on day 28 of her menstrual cycle. It lasted for 6 days Which of the following processes is occurring most likely in her Apontosis b. Caseous necrosas c. Heterophagocytosis d. Atrophy e. Liquefactive necrosis (New) 6. A 37 year old man presents with a cough, it ver, night sweats, and weight loss. A chest x-ray reveals irregular densities in the upper lobe of his right lung. Histologic sections from this area reveal caseous necrosis surrounded by rare acid-fast bacilli and a few scattered giant cells. These giant cells result from the fusion together of what type of cell? (a) (Activated macrophages) Activated nesow b) Atypical lymphocytes c) Endothelial cells ii) Epitheliai cells e) Reactive fibroblasts 7 During acute inflammation histamine-increased vascular permeability cause the formation of exudates (inflammatory edema). Which of the following cell types is most likely to secrete histamine and cause this increased vascular permeability. b) Fibroblasts c) Lymphocytes madelles. e) Neutrophils

3. A 49 year old man develops an acute myocardial infarctin because of the sudden occlusion of he left anjorior descending coronary artery) Which of the following types of necrosis should he present in these areas of miarcuon? Coagulative necrosio (funtion coquetre necolo, ... b) Liquelactive necrosis c) Fat necrosis d) Caseous necrosis c) Fibrinoid necrosis 9. A 35 years old female as arthralgias for which she is prescribed Asprin. Although her joint pains is alleviated, the inflammatory process itself persists. Which pain mediator is inhibited by bostapards. a. Complement C. LTE4 d. Histomine 10. You are asked to review an electron micrograph of a section of liver from a chronic alcoholic. Which c. Nitric oxide of the following is an indicator of irreversible injury? a. Cellular edensa b. Cinomatin clumping Mitochondrial swelling Myelin figures (e) Rupture of plasma membrane laccrated his left hand and required sutures. They were removed 1 week later. Site becard: disfigured with prominent raised disfigured by a prominent raised nodular scar that developed over next 2 months. Which of the following best describes the process that occurred in this 2 months period? a. organization b. dehiscence resolution 12, An experiment involves factors controlling wound healing. Skin ulceration are observed and the factors involved in healing process are analyzed. Which of the following factor is most likely to be effective in prom a. Platelet derived growth factor b. Epidermal growth factor Endostatun e. Interteukin 1 Basic=)
FibroBlast=>
Prowth=)

13. An elderly male with a history of recurrent gram negative urinary tract infection, presents with fever, tachycardia, mental obtundation, and low blood pressure. Which of the following forms of shock is most likely? Anaphylactic shock Cardiogenic shock) Cetaliogeni (Sholle) Neurogenic shock X Septic shock 14 A 67 years old male, known case of diabetes mellitus, dies of ML autopsy of aorta reveals that blood vessel had an embolus. Which of the following conditions must have been associated a. Reini infarction b. Pulmonary thromboembolism c. Edema of left leg d. Thromhocytopena Popliteal artery occlusion 47xx 21 trigory 15- The left hand of an infant born at 38 weeks gestation has a single palmar flexion crease and a single flexion crease on the 5th digit. The infant is small for gestational age. The woman had 1 abortion previously as well. Which of the following chromosomal abnormalities is most likely c. 47 XY 18 d 69 XXY e. 47 XXY 16. A 14 years old boy has been drinking lots of reveal hyperglycemia. Which of the following is the inheritance pattern of this disease?) en enting laboriously. Labs Antosomat dominen (M)Mulurastonal c. X-linked recessive d. Mitochondrial DNA e. Autosomal recessive 17. A 64 year old man presents with symptoms of anemia. On work-up, you discover that the A 64 year old man presents with symptoms of another than the patient has been loosing blood from the GI tract secondary to a tumor mass in his colon. The patient has been loosing blood from the GI mer secondary to confide mass in his colon. The pathology report from biopsy specimen indicates that this mass is invasive adenocarcinomal

Autosomou

Which of the following histologic appearances is most likely to be seen in a biopsy specimen when from this namor mass?

- a) A uniform proliferation of fibrous issue
- b) A disorganized mass of proliferating fibroblasts and blood vessels
- e) A disorganized mass of cells forming keratin
- A omiora proliferation of giandular structures
- (e) A disorganized mass of cells forming glandular structures
- performing a physical examination, you diagnose the bulge to be an inguinal area. After performing a physical examination, you diagnose the bulge to be an inguinal hernia. You refer the patient to a surgeon, who repairs the hernia and sends the resected hernia sac to the pathology laboratory along with some adipose tissue, which he calls a flipoma of the cord. They pathology resident examines the tissue grossly and microscopically and decides that it is not a neoplastic lipoma, but instead is noneoplastic normal adipose tissue. Which one of the following features should be present to make the diagnosis of lipoma rather that normal adipose tissue?
 - a) Anaplasia
 - b) Fibrous capsule
 - Numerous mitosises
 - d) Prominent nucleoli
 - e) Uniform population of ceils

19-A 6 year old African boy develops a rapidly enlarging mass that involves the right side of his face. Biopsies of this lesion reveal as reminent "starry sky" pattern produced by proliferating small, noncleaved malignant lymphocytes. Based on this microscopic appearance, the diagnosis of burkitt's lymphoma is made. This neoplasm is associated with chromosomal translocations that involve which one of the following oncogences?

a) Bcl-2

b) C-abl

e) N-myc

ti oncogene is a nuclear protein that regulates DNA replication and

Leem Do. Scioti

d DNA. It does this by stopping the cell cycle

Abrois Consule

at guar point?

20-The product of the p5

b)) Between G2 and M

c) Between M and G1

d) Between S and G2

e) During G3

- A 76 year old man farmer presents with a 2 cm mass on the left side of his forehead. A biopsy reveals squamous cell carcinoma. Which one of the following causes the formation of pyrimidine dimmers in DNA and is associated with the formation of squamous cell) ew carcinoma?
 - a) Aflatoxin B1
 - b) Vinyl chloride
 - c) UVC

(d) UVB

e) Epstein-Barr virus

22 A 27 years old female's routine pap smear reveals abnormality. Biopsy shows disorderly cellular arrangement in epithelium of cervix and the cells are invading basement membrane. She also gives history of multiple serval partners. Which of the following is most likely diagnosis?

a. Adenocarcinoma

O Squamous cell CA

- c. Hamartoma
- d. Melanoma
- c. Mesothelioma

23. A 56 years old man with history of chronic alcoholism has notice weight loss of about 6 legs. in last 5 months. Ultrasonography reveals a mass in liver. Alpha fetoprotein levels are raised in blood. What is the most likely Diagnosis?

- a. Prostatic CA
- b. Lung CA
- c. Multiple Mycloma

e. Pancreatic CA

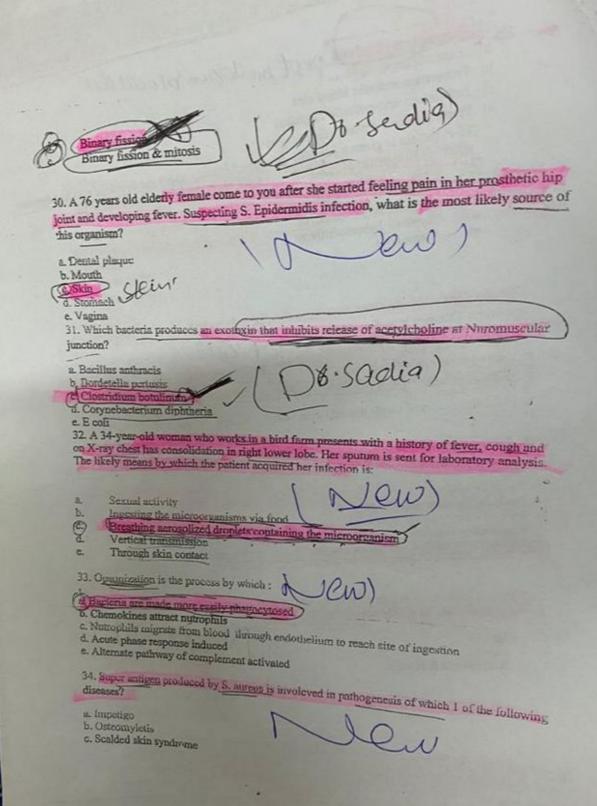
24- A 22 year old second year medical students develops a "red" face after being asked a question during lecture. Which of the following statements best describes this vascular

(a) Active hyperemia

- b) Acute congestion
- c) Non-palpable purpura
- d) Passive hyperemia
- e) Petechial hemorrhage

25-During the autopsy of a 46 year old man who died when the motorcycle he was riding was hit by a truck, a 1-1.2 cm red mass is found within a branch of the left pulmonary arter. Rossly this mass is rubbery, gelatinous, and has a "chicken (an) appearance. Histologic sections reveal that this mass is not attached to the wall of the pulmonary artery, and alternating lines

of Zahn are not seen. Which of the following statements best describes this intravascular mass? post modern blocal dot Postmortem blood clot Postmortem hematoms c) Premortem embolic blood clot if) Premortem non-embolic thrombus e) Premortem non-thrombotic embolus 26-A patient is given a pencillin injection following which she develops rash and dyspnea within 5-10 minutes of injection. The most likely mode of reaction would be ype-1 hypersensitivity 6): Type II hypersensitivity Type-III hypersensitivity c): d): Type-IV hypersensitivity 0): Hemolysis 27 in the gram stain procedure, bacteria re exposed to 95% alcohol or to an alcohol/acetone procedure. This step is performed to: a. Adhere cells to slide b. Retain purple dye within bacteria Disrupt outer cell membrane so that the purple dye can leave bacteria d. To form complex with jodine soln. e. To facilitate entry of purple dye into gram negative bacteris 28- Several bacteria that form spores are important human pathogens. Which of the following is accurate about spores? a. Killed by boiling b. Produced by gram negative only c. Formed on exposure to antibiotics d. Produced by anaerobes detabolically inactive yet can survive for years in inactive state 25 - Microorganisms are cellular structures. They can grow and reproduce. Which of the following mechanism is mostly used by Bacteria to divide? Ou) Mitosis Meiusis Both meiosis & meiosis



Tourishocks graltoco d. Septicemia Toxic shock syndrome 5. A staff nurse collects all contaminated sheets, gloves, masks and caps from operation theater after appendectomy. She sterilizes all objects to reuse them. Which technique is most appropriate to get rid of bacteria and spores: Boiling them at 100 degrees C Tyndalization b. Inspissation Autoclaving Pasteurization. 36. Which of the following is best to treat a skin necrotizing infection caused by MRSA2 a. Coagulase h Enterotoxin d. Leukocidin Tomonycin Vancy oyain 17 Eight of 10 family practice residents who had a potluck 4 days ago now have diarrhea with abdominal cramps, general malaise, and fever ranging from 37.5 degree C to 38.7 degree C. Stools from 3 are blood tinged. Lab studies revealed the causal've agent was a microaerophilic gram negative, curved rod with polar flagella o'ten in pairs to give a seagull appearance. It grew on special media at 42 degree C the original contamination was probably foundin (Poultry b) Improperly caused food d) Fish J. Vuguiniles 18. Which of the following is the barge gram positive rod that causes nacrosis of tissue by producing an exotoxin that degrades lecithin assulting in lysis of cell membranes? a. Bacillus anthumis b. Bacillus cereus Clostridium perfringens) d. Coryacioacterium diplothi c. Listeria monocytogenes 39. A Child was suffering from high grade fever, chill, respiratory distress and pain in left chest when he coughed. His sputum was thick rusty colored, and his chest examination showed normal movement of diaphragm. There was dullness to left lateral posterior chest, suggesting consolidation of the lung. A culture was inoculated on blood agar, growth obtained showed alpha Clatholder

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haemolysis. Smear prepared for Gram staining showed Gram positive lanceolate capsulated diplococci. The organism most probably is; Staphylococcus aureus l'scudomonas aernomasa Streptococcus pneumonae Silculococcus nyogenes Streptococcus viridians reduced I - well wont 40. A 37 years old male is known to HEV positive and has reduced T-cell count. His X-Ray shows a granuloma formation in his upper lobe of one lung. The most mulable harterin ina. Staph aurcus L. Suep. Pueimer Jan c. Corynebacterium, Explitieria d. Cirplecocas; nentimonas (e[Mycobacterium tuberculosis) infection with cramping and valery stools. After develops a gastrointestinal to pass blood per rectum, several days, she begins hospital, she is noted to have for dehydration. In the decreasing arine output with rising urca nitrogen (BUN) Total blood thrombacytopenia, count reveals and The anemia peripheral Smear fragmented red cells (schistocytes). remarkable the following bacterial Infection genera is most likely responsible with for this b- Clostridlum 42- A 25-year-old man presents with a bigh His condition deteriorates so rapidly that his to the emergency department 24 hours after the onset of symptoms. He has a examination reveals auti-HIV antibodies is cchocardiography shows bulky a systolic vegetations attached murmur, Which of following microorganisms the to the isolated tricuspid from will this be most likely be patient's blood a Candida albicans b . Hemophilus influenza

. Staphylococcus aureus Staphylococcus epidermidis Viridans (a-hemolytic) streptococci Which of the following organisms is the most common cause of community-acquired oncumonia? a-. Chlamydia pneumoniae b. Haemophilus influenzae c. Mycoplasma pneumoniae d. Staphylococcus aureus A Streptococcus pneumoniae 20-year-old female presents with a two day history of dysuria 44 was recently married and states that she She urinary frequency. increased reveals Physical exam marriage. not sexually active prior to the Gynecological exam reveals temperature of 100.7 F with vital signs. normal 14 reveals Urinalysis cervicitis. discharge, vaginitis. OF evidence of gram-negative reds. with many high-powered field white blood cells would bc. appropriate therapy The most b (Ceftriaxone) c- Fluconazote d. Gentamicin Metropidazole 45- A 19 year boy had a severe headache which is confined to occipital region and neck.) He was brought to emergency room in confused and disoriented state. Before this condition he lead nausea, vomiting, difficulty in breathing and eating. Physical examination shows that airways are open and clear, BP 110/80mmHg, pulse 108/min, temperature 38.40C. Patient had Neck rigidity. Which of the following bacterium is most likely the cause of it? No 850019 Fes Sireptococcus pneumoniae B. b. Haemophilus influenzae Streptococcus agalactize (a. Meisseria minimuitidis Staphylococcus aurens 46- The clinical laboratory reports the presence of 0157:H7 strains of E Coli in the blood lystools of 6 children ages 3-5 who attended a local petting zoo. These young children would be at increased risk of developing Buboes Hemlytic memic syndrome) bilant botulism Rennl Menne Rice water stools

20 LOSeolup)

47. A 50 years old male presented with severe abdominal pain. Later he also developed bloody stools with mucus. Laboratory findings and clinical tests reveals amoebiasis. Which of the following will be the most appropriate intestinal finding in this patient?

a. Cobble stone appearance of the intestine

b. Gramionatous inflammation

Flask shaped ulcers with undermined edges?

d. Blunting of the intestinal villi

e. Tumor like masses

48 What form of Giardia lambia plays role in its transmission?

a) Cysts

b.Karyosomes

c.ivietacyst

d.Trophozoites

c. Nuclei

49- Abdominal ultrasound of a patient showed liver abscess. The pas was aspirated and examined which showed amoebic trophozoites. Which of the following is the characteristic of the liver abscess caused by amochic dyacutery?

a. yellow colored pus containing dead bacteria

(b) Chocolate colored pus containing red blood cells and dead liver cells)

d. Pos containing only habitotytica cysts

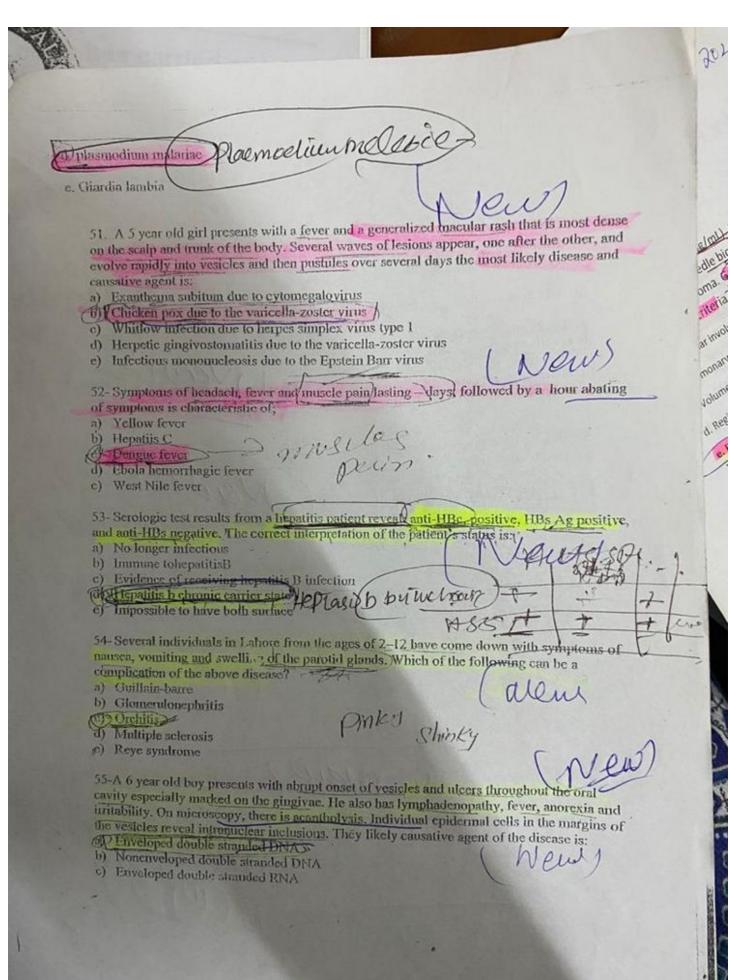
c. granulation tissue

50- A 20 years old female gave history of high grade fever after a mosquito bite. Fever occurred every third day. Examination showed pallor and splenomegaly. Benign Quartan fever is

a. Plasmodium faiciparum

b. Hookworm infection

... Finsmodnim ovate



e) A gram negative oxidase positive diplococcus 56- which one of the following set of cells can present antigen to helper T-Cells? a B cells and dendritic cells New) B cells cytotoxic T cells c. Macrophages and eosinophils d. Nutrophils and cytotoxic T cells e. Neutrophils and plasma cells 57 Which of the following features differentiates fungal cells from human cells? a. 80S ribosomes b. Presence of an endoplasmic reticulum (e. Ergosterol as the major membrane sterol d. Enzymes that allow them to use caroon doxide a their sole carbon source e. Presence of chloroplast 58 A girl who pricted her finger while pruning some rose bushes develops a total pustule that progresses to an ulcer. Several nodules then develop along the local lymptiatic drainage. The most likely agent is a. Aspergillus fomigatus Sporothrix settencial Cryptococcus neoformans d. Candida albicans e- Mucor mycosis Aspergillosis is recognized in tissue by the presence of a. Metachromatic granules b. Psuedohyphae (c) Septate Lyphae d. Budding cells c- pseudopseudohyphae. 60 - Infection with dermatophyte is most often associated with a. Intravenous drug abuse b. Inhalation of the organism from contaminated bird fee Adherence of the organism to perspiration moist skin d. Fecal-oral transmission e-blood borne

d) Naked single stranded RNA