x1. Rizwan

Pathology

- 1.Elevated (8.5 ng/ml.). Rectal examination reveals an enlarged and nodular prostate. A needle biopsy of the prostate discloses invasive prostatic adenocarcinoma. Grading of this carcinoma s based primarily on which of the following criteria?
- a. Capsular involvement
- b. Pulmonary metastases
- C. Volume of prostate involved by tumor

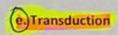
e. Resemblance to normal tissue of origin Resoublance fon contants in the tissue.

Resemble lente for 1 or 10 or 10 or 19 in the 1951.

2.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 aroid the region of tissue damage in the next 3 days as an initial response to promote healing?

D. Histamine

- b. Histamine
- c Leukotriene B4.
- d. Complement component Cab
- e. Immunoglobin G
- 3. Transfer of a donor chromosome fragment by a bacterial virus is defined as Hayolue 2:01 which one of the following?
- a. Transformation
- b. Conjugation
- c. Competence
- d. Recombination



4.A 25-year old male presents with a macula-popular rash on palms and soles. He gives history of developing a non-tender ulcer on the genital area 3 months back which healed spontaneously. Currently, the patient is suffering from:

- a. Early latent stage of syphilis
- b. Tertiary syphilis

c. Late latent stage of syphilis Secondary Syphilis Secondary Syphilis Secondary Syphilis

e. Primary syphilis

5.A patient was received in emergency department with complaints of low-grade fever, chronic cough, night sweats and body aches. Mycobacterium tuberculosis was among the top differentials. Which media is used to culture this pathogen?

a. Lofflers medium

Loverglani medicy

- b. Chocolate agar
- c. Tellurite medium

dewenstein-Jensen media Lowns Lain Jewen modicen

e. Blood agar

6.A 23-year-old woman, G2, P1, gives birth at 37 weeks to a small for gestational age male infant) The hand of the infant shows a single palmar flexion crease and a single flexion crease on the fifth digit. During the pregnancy, fetal ultrasound showed an endocardial cushion defect and polyhydramnios from probable duodenal atresia. Which of the following chromosomal? Abnormality is most .. likely to be present?

a. 47. XY+21

b. 45. X

47×X+21/Fisom21/9×X-741/-

647. XX+21/ Trisomy 21 d-69,XXY e-44XX Y

7. Genetic reassortment or antigenic shift and drift can occur during replication of which of the following virus?

Entherza. influencioce.

(al) Influenza virus

b. Hepatitis B virus

- c. Respiratory syncytial virus
- d. Picornaviruses
- e. Caliciviruses

8.Gram staining of sputum sample of a patient suspected to have pneumonial revealed Gram positive diplococcid. Which of the following structure is found in the organism is anti-phagocytic and is responsible for positive quelling test?

a. Outer membrane

b. Cytoplasmic membrane

c. Cell wall

d. Ribosomes

@capsule Of Sule.

9.A 25-year-old woman with amenorrhea has never had menarche. On physical examination she is 145cm (4 ft 9 in) tall. She has a webbed neck, a broad chest, and widely spaced nipples. Strong pulses are palpable in the upper extremities, there are only weak pulses in the lower extremities. On abdominal MRI her ovaries are small, elongated and tubular. Which of the following karyotypes is she most likely to have?

a. 46, X X(fra)

b. 47 XXY

c. 47. XX.+16

6.47 XXX C45 X 45X L(TX)

10. With regard to antibiotics which one of the following statements is correct?

- a. Vancomycin is a protein synthesis inhibitor
- b. Metronidazole has similar mechanism of action as erythromycin
- c. Chloramphenicol is a cell wall inhibitor
- d. Vancomycin and penicillin's inhibit bacterial cell wall synthesis through the same

e Cephalosporins and penicillin's inhibit bacterial cell wall synthesis through the same that bacter is mechanisms. Cephal toporties another feniclin hibit bacter is commended to the comment of the com

11.An athlete complains of discoloration and thickening of skin on his foot. The lesions are red, circular, with a vesiculated border and a central healing area. He is suspected to have infection with dermatophytes or ringworms. The most appropriate laboratory procedure would be:

b. Fourfold rise in antibody titer against the organism Schoolie,

- c. Giemsa stain for multinucleated giant cells

12.A 27-year-old woman who is 2 months pregnant develops fever, malaise, and arthralgia. A fine maculopapular rash appears on her face trunk, and extremities. Rubella is diagnosed, and there is concern that the fetus will be infected resulting in the congenital rubella syndrome. Which of the following statements about this

- a None of the above
- b. Congenital abnormalities occur when a nonimmune pregnant woman is infected at any time
- c. Only rare strains of rubella virus are teratogenic
- d. the disease can be prevented by vaccination of school age children with measles vaccine.

d. the disease can be prevented by vaccinded with congenital.

Defacts is a common defect associated with congenital.

Defacts is a common defect associated with congenital.

Lougaticl

13. Gram staining of a positive blood culture revealed Gram positive cocci. Staphylococcus aureus was suspected to be the causative agent) Which of the following test is required to differentiate Staphylococcus aureus from Staphylococcus epidermidis?

a. Oxidase

b. Catalase

coagulage

Coagulartest

d. Protease

e. Indole

14.A 3-year-old boy had complaint of headache with a two days history of fever of 39.7° C and extremely lethargic. A lumbar puncture revealed 2000 neutrophils/mm3 and CSF glucose level of 9 mg/dL (normal 15 to 45 mg/dL). The Gram stain showed gram negative diplococci. The most probable infecting organism is?

a. Streptococcus pneumonia

Meisseria meningitidis Neiscaro menglieg.

C. Escherichia coli

d. Streptococcus agalactiae Hemophilus influenzae

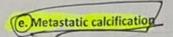
15.A 43-year-old man has a routine chest x-ray that shows a 2 cm nodule in the (right lower lobe) The nodule has focal calcifications. A wedge resection of the nodule is done. On microscopic examination the nodule shows caseous necrosis and calcification. Which of the following processes explains the appearance of the calcium deposition and raised serum calcium levels? metastaticaloificatio jesticotio,

a. Apoptosis

b. Hypercalcemia

c. Dystrophic calcification

d. Excessive ingestion of calcium



16. Which one of the following viruses develops subacute sclerosing) panencephalitis as its complication? Subacite Pance Pulitis. is conflication a. Rubella virus meaglesvious. b. Pox virus c. Mumps virus d. Varicella zoster virus (Measles virus) meloages) meagleeviour 17. After eating canned mushrooms, a young boy developed diarrhea and vomiting, Gram positive rods survived in the canned food. Depending upon the 02 requirements of bacteria, where do you put this bacterium? a. Facultative b. Carbophilic Ostrict anderobe strictanserbe Strictantber. d. Microaerophilic e. Strict aerobe

18.A young boy had history of ingesting under cooked fish from a new restaurant and he developed megaloblastic anemia afterwards. Which of the following is the causative agent?

a. Ascaris lumbricoides
b. Enterobius vermicularis

C. Teaenia solium

d. Diphyllobothrium latum Diphyllobert egeen Telun e. Ankylostoma duodenale

19.A 68-year-old woman suddenly lost consciousness and on awakening 1 hour later, she could not speak or move her right arm. Two months later, a head CT scan showed a large cystic area in the left parietal lobe. Which of the following pathologic processes have most likely occurred in her brain? liquadien ecossis Liquefactice ne coosis. a. Karyolysis b. Apoptosis c. Coagulative necrosis d. Fat necrosis Liquetactive necrosis liquetactive necosis. 20 Chlamydia trachomatis is a well-known cause civenereal disease. This organism is also implicated in which of the following? Blidner i lu neorale a. Perinatal retinitis b. Blindness in neonate c. Sexually transmitted cardiac disease in adults d. Urinary tract infection in children e. Middle ear infection in young children 21. Which of the following is true regarding healing by secondary union?) a. Not infected DExtensive granulation tissue Euleusia Granleti tico cg. c. Neat Margin d. Sutured wound e. Clear wound

22.A farmer having cows in his house having history of ingestion of contaminated under cooked beef developed anorexia and diarrhea. Which one of the following also called as beef tapeworm s the causative agent? Janie Saginata Janie Saginater Janie Saginater

b. Taenia coli

- c. Echinococcus granulosus
- d. Taenia solium
- e.Diphyllobothrium latum

23.A child stung by a bee experiences respiratory distress within minutes and lapses into unconsciousness. This reaction is probably mediated by?

a. IgG antibody

b. IgM antibody

c. Complement

19 Eantibody. ge antibody

e. Sensitized T cells

24.A man 45 years has complained of mild burning substernal pain following meals for the past 3 years. Upper GI endoscopy reveals erythematous area of the lower esophageal mucosa and the biopsies show the presence of columnar epithelium with goblet cells. Which of the following mucosal alterations is most

a. Ischemia

b. Dysplasia

c. carcinoma

méta Plasie,

d. Hyperplasia e)Metaplasia

25.A 40-year-old man diagnosed with Acute Cholecystitis and develops abdominal pain. The pain experienced by this patient is predominantly the result of which of the following two chemical mediators?

Prostaglandin and bradykinin Prastaglandsandine Boady Coodig.

b. Leukotriene and HPETE

c.Interleukin-1 and tumor necrosis factor

d. Histamine and serotonin

26.A 20-year-old male is brought to the emergency department with a 1-day history of delirium, sustained fever of up to 102°F, headache, myalgia and constipation which began 10 days back. Physical examination revealed hepatosplenomegaly, diffuse abdominal tenderness or rose spots on the chest and neck. Colonies of a Gram-negative non-lactose fermenting rods with H2S production were obtained. What is the most likely diagnosis?

a. Shigellosis

Dryphoid fever Typhoiolfeuld

C. Tularemia

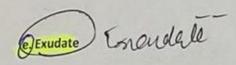
27. Fluid in a blister produced as a result of acute inflammation is most likely:

a. CSF X

b. Pus

c. Transudate

d. Blood



28.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. Granulomatous inflammation
- b. Tumor like masses
- c. Blunting of the intestinal villi
- d. Cobble stone appearance of the intestine

Flask shaped ulcers with undermined edges Flower she fod ul coos will clean be rained supedities wintre minedelly es 29. Tzanck smear is useful for the diagnosis of which one of the following viral

a. HPV infection

6) Herpes zoster Virus infection Het pue z osleevisueinfections.

- d. Measles
- e. Rables

30. Which of the following zoonotic fram-negative rod has flea as a vector and (a) Yersinia etsive Leosonia. Vetsino pestios.

- c. Bordetella
- d. Brucella
- e. Pasteurella

31.A 35-year-old man has had increasing dyspnea and chest pain for 1 year, He has no cough or fever. He had chronic exposure to inhalation of asbestos dust for many years in his job. A chest x-ray now shows increased interstitial markings and parenchymal 1 to 3 cm solid nodules) His pulmonary problems are most likely to be mediated through which of the following inflammatory processes? (Foreign body giant cell formation) = overign be ely gaint cell for metion b. Macrophage elaboration of cytokines
c. Neutrophils in filtrates fooduring The lanko trienes.
d. Plasma cells synthesis of the immunoglobin of the plasma cells synthesis of the immunoglobin of the plasma cells his Tamine release bescribes haemolytic disease in the Typell of the plasma cells his Tamine release to the synthesis of the period of the p newborn caused by Rh incompatibility/ erythroblastosis fetalis? a. Delayed hypersensitivity/ Type 4 b. Immune complex mediated/ Type 3 c. Anaphylactic/ Type 1 devitotoxic/Type 2 Offotonice Type 2 e. All of the above 33.A patient presented in emergency with third degree burns. Deatment was

started. After 6 days green colored pus was seen in his wound dressing. Name the organism causing this infection: Dseudomonous.

b. Staphylococcus

c. Klebsiella

d. E. coli

e. Enterobacter

34.A man of 58 years has experienced severe chest pain and tachycardia. Laboratory studies show a serum troponin L of 10 ng/ml. A coronary angiogram

10mg). Q.

reveals >90% occlusion of the anterior interventricular artery. Which one of the following is a feature of an irreversible injury? a. Decrease Intracellular pH

nullindes good Kosohe ris

6 Nuclei undergo karyorrhexis vuel en voleo go es une Kesyonenis.

- c. Blebs form on cell membranes
- d. Cytoplasmic sodium increases
- e. Glycogen stores are depleted

35.An immune-compromised chronic diabetic patient had to go for amputation of his foot after he developed gas gangrene. The organism isolated from the pus was a gram-positive rod, showing double zone of hemolysis on blood again and positive a. Clostridium difficile

b. Bacillus anthracis

d. Clostridium botulinum Clostidum perferinges.

e-Coonyebacterium diputhesiae.

36.A 60-year-old man complains of muscle weakness and a dry cough for 4 months. He has smoked two packs of cigarettes daily for 45 years. A chest X-ray shows a 4 cm central left lung mass. Laboratory studies reveal (hyperglycemia) and hypertension. On transbronchial biopsy, the tumor is found to be small cell carcinoma. Metastases to the liver is detected by CT scan. Which of the following might account for the development of hyperglycemia and hypertension in this

b. Thrombosis of the renal artery

Downer Plasti 3 yudsone c. Pituitary metastases d. Paraneoplastic syndrome e. Pituitary adenoma 37.A 50-year-old patient who had been intubated after an accident developed signs and symptoms of sepsis. Blood culture revealed fram positive, catalase positive, coagulase negative cocci that is also a normal flora of our body? a. Staphylococcus aureus C. Enterococcus

Staph ou epideou

Staphylococcus epidermidis

Stoepthousepioleani e. Lactobacillus 38.A 45-year-old diabetic female is diagnosed with vulvovaginitis having creamy white cotton cheese like vaginal discharge. When a smear is made, an oval shaped Structure with a single bud is seen Which of the following is the most likely organism? (b) Candida albicans Candida Albicans Candide al bicer c. Pneumocystis carinii d. Malassezia furfur e. Coccidioides immitis 39.A young boy was received in emergency department with history of fever, malalse, headache and cough. Along with that he had joint and muscle pains. On examination a maculopapular rash was observed on his body. His labs showed leucopenia, decréased MCV and decreased platelet count. The most likely virus

a. West Nile virus

- b. Yellow fever virus
- c. California encephalitis virus
- d. St. Louis encephalitis virus

Dengue virus

A 32 years old lady has enperinced dull Pelvii Pain 708 the

Last 2 montlus - 40. Ultrasonography shows a 7.5 cms cystic ovarian mass which was subsequently excised surgically. The surface of the mass is smooth and is non-adherent to surrounding pelvic structures. Grossly the mass is cystic and filled with hair. Microscopically squamous epithelium, tall columnar glandular epithelium cartilage and fibrous connective tissue are present. Which one of the following is

a. Fibroadenoma

b.)Teratoma Tesatona.

C. Adenocarcinor

d. Hamartomax

e. Rhabdomyosarcoma

41.A patient after dining cutside developed diarrhea after 24 hours. A toxin produced by Staph, aureus was suspected to be responsible for his condition, his Which one of the following is the property of exotoxin

a. Lipo-polysaccharide in nature

b. Not secreted from the cell

Toxolds can be used as vaccines / can be used astrong cail

d. Weakly immunogenic

e. Stable and withstands heating above 100 degree centigrade for hours

42.A patient taking anti-malarial drugs Irregularly for chronic falciparum malaria now presented with complain of dark or black coloured urine. Black water fever was diagnosed. The dark color of the urine is because of

hemolysis destroying affected parasitized RBCs and unaffected RBCs

b. presence of malarial parasites in urine

C. Excretion of the anti-malarial HER in

a-Exception of the galacose

e-fresence of the Proleins in We usine .
43. Dependent edema found in congestive heart failure is most likely due to:

b. Lymphatic obstruction. Mcocksed mclostili poessise.

- c. Reduced plasma oncotic pressure.
- d. Arteriolar dilatation,
- e. Endothelial injury.

Your answer is correct.

- 44. Tzanck smear is useful for the diagnosis of which one of the following viral infection?
- a. HPV infection

b. Herpes zoster Virus infection / popeszoslee 1'10-/20160;

- C. HIV infection
- d. Measles
- e. Rabies

45.A 70-year-old man presents with signs of fatigue due to anemia. Workup reveals anemia as a result of bleeding from a colon cancer located in sigmoid colon. The lesion is resected and metastatic disease is found. Which of the following markers would be most useful for future follow-up of this patient of the evaluation of possible metastatic disease form his colon cancer?

a. Chloroacetate esterase (CAE)

Carcinoembryonic antigen (CAE) Corscinoembryonic antigen,

- c. alpha fetoprotein (AFP)
- d. Prostate-specific antigen (PSA)

46.A middle-aged lady was found to have a coarse liver echo texture and moderate ascites on ultrasound examination of abdomen carried out during her investigation of vague abdominal complaints. Her ALT was marginally raised Which one of the following viruses do u think causes thronic carrier state?

THE Batitis C virus Alepaleti SC Virus. Helatic C

- b. Hepatitis A virus
- c. Hepatitis B and D virus co infection
- d. Hepatitis E viruses
- e. Cytomegalovirus

47.Reduced plasma oncotic pressure is the most important mechanism of edema

a. Congestive heart failure.

Bring Syndrome Dephooti Lyndrone neproli

- c. Brain trauma.
- d. Edema of the arm in breast cancer patients.
- e. Edema of leg affected by venous thormbosis.

48.She has a chest radiograph that reveals multiple small parenchymal nodules along with hilar and cervical lymphadenopathy. A cervical lymph node biopsy is performed. Microscopic examination of the biopsy shows noncaseating granulomatous inflammation Cultures for bacterial, fungal, and mycobacterial organisms are negative. Which of the following chemical mediators are most important in the development of her inflammatory response?

- a. Bradykinin
- b. Histamine

terferon-gamma

Interprogramma.

d. Prostaglandin E2

e. Complement C5a

49.A 50-year-old woman presents-with abdominal pain and vaginal bleeding. A hysterectomy shows a benign myometrial tumor of the uterus. What is the a. Leiomyoma (Piorrya Wio Pyon
b. Adenoma

c. Leiomyosarcoma

d. Angiomyolipoma

e. Papilloma

50. The function of C3a and C5a is to cause:

a. Aggregation of Ca
b. Chemotaxis chemotoxis Chemotixis c-phagoaytosis d-None of the above.

e-cellulysis