- Potassium hydroxide mount of skin scrapings
- b. Giernsa stain for multinucleated giant cells
- c. Fluorescent antibody stain of vesicle fluid
- d. Four fold rise in antibody titer against the organism
- e. Gram stain of skin smear
- 29. A chronic diabetic, experienced nephropathy and was admitted in intensive care unit for management. A fungus was isolated from the culture of his catheter tip, staining positively with Gram staining. Apart from that germ tube test was also positive. The causative agent is:
  - a. Cryptococcus neoformans
  - b. Candida albicans
  - c. Candida tropicalis
  - d. Rhizopus
  - e. Mucor
- 30. A 60 year old immigrant from Argentina experiencing upper right quadrant abdominal pass, a successful vomiting. He is taken to emergency room in a nearby hospital by his wife. A CT-scan reveals a large mass in this liver. History reveals that the man has many pet dogs. What is the most likely diagnosis?
  - b. Taenia saginata
  - Echinococcus granulosus
  - d. Diphyllobothrium latum
  - e. Cysticercosis
  - f. Hymenolepis nana

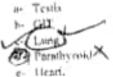
- 18. Chlamydia trachomatis is a well-known cause of venereal disease. This organism is also implicated in which of the following?
  - a. Blindness in neonates
  - Middle-ear infection in young children
  - c. Perinatal retinitis
  - d. Sexually transmitted cardiac disease in adults
  - e. Urinary tract infection in children
- 19. A 25-year old male presents with a macula-papular rash on paims and soles. He gives history of developing a non-tender ulcer on the genital area 3 months back which healed spontaneously. Carrently, the patient is suffering from:
  - a. Primary syphilis
  - b. Secondary syphilis
  - c. Early latent stage of syphilis
  - d. Late latent stage of syphilis
  - e. Tertiary syphilis
- 20. Delta (HDV) hepatitis only occurs in patients who also have either acute or chronic infection with hapatitis B virus. The delta agent is:
  - a. An incomplete hepatitis B virus
  - Related to hepatitis A virus
  - c. A hepatitis B virus mutant
  - d. A defective RNA virus
  - e. Hepatitis C virus mutant
- 21. A young boy was received in emergency department with history of fever, malaise, headacter and reach his body. His labs showed leucopenia, increased hematocrit and decreased platelet count. The most likely virus would be:
  - A. Yellow fever virus
  - Dengue virus
  - C. West Nile virus
  - D. St. Louis encephalitis virus
  - E. California encephalitis virus
- 22. A newer virus first detected in 1994 has genomic size of about 165 Kbp. This virus is said to be the cause of Kaposi's sarcoma and body cavity lymphomas. Identify this virus.
  - a. Epstein Barr virus
  - b. Human Herpes virus 6
  - c. Human Herpes virus 7
  - d. Human Herpes virus 8
  - e. All of the above

- Which of the following bacteria is the cause of dysontery and has same mechanism as the enterolemeorrhagic strain of E-coli?
  - ShigeHa
  - · Salmonella
  - Proteus
  - d. E.coll
  - e. Pseudomonas
- 14. A patient is admitted to the hospital due to severe epigastric pain, indigestion, excess of gas production. Culture reveals a urease positive, gram negative, curved rod. Which of the following is a likely complication due to infection with the causative agent?
  - a. Diarrhea
  - h. Kidney stones
  - c. Pseudomembranous colitis
  - d. Duodenal ulcer
  - e. Vemiting
- Light of 10 family practice residents who had a polluck 4 days ago now have diarrhea with abdominal cramps, general malaise, and fever ranging from 37.5C to 38.7c. Stools from 3 are blood tinged. Lab attalies revealed the causative agent was a micro-acrophilic gram negative, curved rod with polar thagella often in pairs to give a seaguil appearance. It grew on skirrow's media at 42 C. The original contamination was probably found in:
  - a. Poultry
  - b. Improperly cannod food
    - c. Fried rice
    - d. Fish
    - e. Vegetables
- 15. Which of the following is not a common characteristic of family enterobacteriaecae?
  - a. All the members are Gram -ve Rods
  - b All are Non-spore forming
  - c. All are Nitrate reducers
  - d. All are Oxidase +ve
  - c. All are lactose fermenters
- The primary lesion of tuberculosis in lung" the Ghon complex" comprise of:
  - Parenchymal exudative lesion in lung and draining hilar lymph nodes
  - Only parenchymal exudative lesion in lung
  - Hsiar lymphadenopathy
  - d. Parenchymal exudative lesion in lymph nodes
  - Cervical lymphadenopathy and parenchymal exudative lesion in lung

And Lack of apopular

- e) these amplitheations
- d) Reduced DNA repair
- el Loss of cell cycle inhibition

Q 8. A 65 years old make presented in QPD with mosts face and central obserty. He was found in · have unabling syndrome due to telesse of Carticocropia. Doctor was very much warried to be was suspecting a turnour what other organ he should examine apart from advenues in search of INDIVIDUE.



Q. 9 A 66 year old mon with cheanic cough has an operate of accompany. On physical execularation, there are no abnormal findings. A chest radiograph shows a 6-cm must in the right lung. A sputum cytologic analysis shows cells consistent such superpose cell careinomic Metastases from this neoplasm are most likely to be found at which of the following older

- Chest wall mode
- b) Splenie red poly
- D Hitar lymph nedes
- d) Verciebral bune marrow

Q. 10 A 42 year old main is concerned about a thirkly pignocencel "mole" on the buck of birdund. The lesion has enlarged and bled during the past month. On physical examination, there is a alightly raised, darkly pigmented, 1.2-cm lesion on the docum of the tight hand. The lenion is completely excised. Microscopically, a mplignant melanoma is present. Which of the following factors presents the greatest risk for the development of this neeplesen?

a) Smoking tobacco

W Ulunvioles radiation

c) Chemotherapy

A sheaton exposure

Q. 11 A clinical study involves patients diagrassed with carcineurs whose names suggets (4NIMI) The particular survival rate 5 years from the time of diagrands is less than 50%. regardless of therapy. Which of the fullnwing clinical findings is most likely to be charactered of this group of putients?



a.) Ascaris lumbricoides Ankylostoma duodenale Enterobius vermicularis d. Necatar americanus e. Trichuris trichiura Which of the following is not a cestode? 169. Taenia solium. Diphyllobothrium latum c. Echinococcus granulosus d. Hyménolepis nana. ( Entroblus vermicularis A patient presented in emergency with right hypochondrial pain. Ultra sound of abdomen showed large unilocular cyst in liver. Which of the following is the causative agent? a Taenia solium Taenia saginata c) Echinococcus granulosus d. Diphyllobothrium laturn Which of the following specie of schistomes can lead to carcinoma e. H. nana of bladder? a. Schistosoma mansoni b. Schistosoma americanum Schistosoma haematobium Schistosoma japonicum e. Schistosoma africanum Which of the following media is used to culture fungi? 172. Blood agar MacConkey's agar Serum dextrose agar Sabouraud dextrose agar -> Fungi that invade skin, hair, nails and mucous membranes are EMB agar 173. classified as: a. Superficial d b. Cularieous c. Subcutaneous d. Systemic e. Opportunistic Which of the following are not correctly matched? Tinea corports - groins

b. Tinea capitis – scalp

Tinea pedis – athlete's foot
 Tinea barbae – beard
 Tinea cruris – jock itch



- c. Both
- d. 20% Mother side
- e. 60% Father's side
- 86. On TSI agar vibrio shows:
  - Alkaline slant acid butt
  - Acid butt acid slant
  - Acid slant alkaline butt
  - Acid stant acid butt with H2S production
  - Alkaline slant alkaline butt
- 87 Cholera toxin causes:
  - 1) Stimulation of adenylate cyclase
  - Inhibition of adenylate cyclose
  - Stimulation of guanylate cyclase
  - Inhibition of guanyfate cyclase
  - 5. Both 'A' and 'C' are correct
- 88. A 10 yrs old girl presents with acute onset of lower limb weakness associated with fever and foul smelling bloody diarrhea. The most likely associated infection is:
  - Vibrio cholerae
  - Vibrio para haemolyticus
  - Campylobacter jejuni
- Campylobacter intestinalis
  - Helicobacter pylori
- 89. MALT lymphomas are associated with:
  - 1. Campylobacter jejuni
  - (2) Helicobacter pylori ->
    - Vibrio cholerae
  - Hemophilus influenze
  - Yersinia postis
- 90. A 25 yrs old male presents to ENT specialist with severe ear ache and greenish ear discharge. He is a regular swimming pool user. Pus culture shows non lactose fermenting colonies on MacConkey's agar. The most likely cause of infection is:

- d. Enteroblus vermiculoaris
- Necatar americanas
- 163. Which of the following parasite having no intermediate host can lead to autoinfection?
  - Echinococcus granulosus
  - Entroblus vermicularis
  - c. Ankylostoma duodenale
  - d. Ascaris lumbricoides
- ( Hymenolepsis nana
- itching for the last few days. The boy had history of not properly washing his hands before meals. His scotch tape preparation was positive. Why are one of the following is the most likely causative agent?
  - a. Echinococcus granulosus
  - b. Necatar americanus
  - g. Ankylostoma duodenale
  - (d) Entrobius vermicularis
  - e. Diphyllobothrium latum
- 165. A 30 year old farmer having history of walking bare footed in the fields, developed pruritic papule on his foot ignored by him. After a few days he experienced the signs and symptoms of pneumonia with gosinophilia on blood complete picture. What is the diagnosis?
  - a. Schistosoma
  - Ankylostoma duodenale
    - Entrobius vermicularis
    - d. Trichuris trichiura
    - e. Diphylobothrium fatum
- 166. Which of the parasite has dog as the definitive host?
  - a. Taenia saginata
- b Echinococcus granulosus
  - c. Echinococcus multilocularis
  - d. Trichuris trichiura
  - e. Entrobius vermicularis
- 167. A young boy had history of ingesting under cooked fish from a new restaurant and he developed megaloblastic anomia afterwards. Which of the following is the causative agent?
  - a) Diphyllobothrium latum
    - Ascaris lumbricoides
    - c. Ankviostoma duodenale
    - d. Enterobius vermicularis
    - e. Teaenia solium
- 168. Which of the following nematode can lead to Lofflers syndrome?

was and the second the second of the second Time makes some or the content of the planting within had the following one characters the

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- Row of marganisms and
- or have a marginal man in course
- To graduate state of a marketic state of property
- a frenches of Leaders
- their all accounts of a maximization examining the state promitation trough which has resident to the many a set of a given many so what are things to should look for to call this furnious a Children was
  - ar see on the charge contain to parent cell
  - to the contract warners
  - e- High N Crans a weapthteen, anaplasia
  - d- Only increased imposes are enough to call it as malignant
  - e. Desmertana wer of tumous cells
- Q-23. A resident published was examining the state of Meckel's 'Diverticulum, His senior resident said that the large epithelium should be some as that of colonic epithelium. But he was surprised to see gastere musless in Lamina propria. When it actually this enflect as

  - b- Mixed tumour



- Mamartoma
- e- Neopalsia
- Q-24. You are asked to examine a slide of a tumour arising from smooth muscle cells of prometrium. The tumour is composed of bundles and fascicles of oval to spindly cells with little pleomorphism and mitosis, areas of tumour occrosis are seen. Suddenly the number of mitosis lacreases and cells become enlarged with blg giant sized model , looking barrible . This transition of less had to too bad in called as





MBBS 37 Years



Timte 25 retir

tehni Mares 25

Q. 1 A 44 year old morning sees her physician beganse for feels harge in the right seems. The physician notes right axillary lymphodenopathy on physical examination. The noise on partibut firm. She had also history of hard fixed loop in apper quadrant of breast What at the following is the most likely diagnosis?

- Cay Ductal carcinomina or exec
- h) Acute mastills with breast abscess
- c) Lejomyosarcoma of the merus
- d) Cerebral glioblastoma amiliforme
- e). Squamous dysplasia of the largest
- Q. 2 A 32 year aid woman has experienced doll pelvic pain for the just 2 another. Photo at externination shows a right adversal mass. An Advanced attravered year thore, ... I also will ovarian mass. The mass is surgically excised. The surface of the mass is amount the conexamination, the mass is cystic and filled with hair. Microscopically, aquations quite or as columnus glandular epithelisan, caridage, and throug consecute these are present following is the most likely diagrants?
  - a) Ade socarcinoma
  - b) Fibrosácroma
  - c). Olir ma
  - d) Har artoma
  - (c) Teraloma
- Q. 3 An epi lemiologic study investigates the parential certains analysis and quantum parential contribute 1 the development of cancers in a population. Data analyzed how rescricts data lesions show that changes are accurring that show the evolution of a spopular colony adversars into an invalive careinoma. Which of the following best describes the mechanism phase inthese chang 5?



a) Acti ation of proto-energenes by climationanal translacation Ster wise accumulation of multiple protosomeogene and notor support and restarting to the starting of the c) Extensive regeneration of tissues increasing the unitation rate actions are

Q-25. A female has a known family history of breast carcinoma and she is worted has one may develop a turnour as well. Doctor asks her to be vigilant and do some tests on yearly basis. Caryou guess?

- b- FISH
- Mammogram
- d- Ultrasound of breast with yearly mammogram
- e- Only ultrasound and regular self examination

- Extra chromosomal double stranded circular DNA molecules that are capable of replication independently of bacterial chromosomes and responsible for the transmitting bacterial resistance genes is:
  - Mesosomes
  - Transposons
  - c. Nucleoids
  - d. Plasmids
  - e. Spores
- 5. Laboratory results of a clinical specimen from a patient with hospital-acquired pneumonia revealed the presence of methicillin-resistant Staphylococcus aureus (MRSA). Which of the following drugs is the best empiric treatment?
  - a. Ceftazidime
  - b. Dicloxacillin
  - c. Penicillin
  - d. Tobramycin
  - e. Vancomycin
- 6. An outbreak occurs in community due to contaminated water supply. Patients came with nausea and vomiting as well as profuse diarrhea with abdominal cramps. Stools had rice water appearance. Curved comma shaped Gram negative rods were isolated. Which of the following is the selective media used for culturing it?
  - a. Blood agar
  - b. TCBS agar
  - c. MacConkey agar
  - d. Chocolate agar
  - c. Thayer martin medium
- 7. Gram staining of urine sample of a patient suspected to have urinary tract infection revealed. Gram negative rods. Which of the following structure is found in gram negative bacteria but not in gram positive bacteria?
  - b. Capsule
  - c. Cell wall
  - d. Cytoplasmic membrane
  - e. Ribosomes
  - f. Outer membrane

- 157. Which of the following tumor markers is considered to of overian carcinoma?
- a. CA19-9 -> colon cancer
- ♠ CA-125
- c. CEA
- d. P53
- e. PAP
- 158. Alpha feto protein is considered to be tumor marker of which of the following organ?
- (a) Liver
  - b. Pancreas
  - c. Stomach
  - d. Calan
  - e. Lung
- 159. Which of the following statement is not correct regarding the role of his (immunohistochemistry) in histopathology?
  - To determine the line of differentiation.
  - b. To determine the site of origin of metastatic tumor
  - To determine the degree of anaplasia
  - d. To categorize leukemia/lymphoma
  - e. Detection of molecules that of prognostic & therapeutic significance
- 160. Hypercalcemia is a considered to be paraneoplastic syndrome of which of the following tumors?
  - a. Ovarian carcinoma
  - b. Pancreatic carcinoma
  - Hepatocellular carcinoma
  - (d) Squamous cell carcinoma of lung
  - e. Basal cell carcinoma
- 161. A 70/F presented to medical OPD with history of weight loss, anorexia, intestinal obstruction & malena. What is the most probable diagnosis of this patient based on clinical signs & symptoms?
  - a. Tumors of bladder
  - b. Tumors of lung
  - (d) Tumors of GIT
    - d. Tumors of skin
    - e. Turnors larynx
    - 162. Which of the following nematode is also known as whip worm?
      - a. Ascaris lumbricoides
      - b. Ankylostoma duodenale
        - Trichuris trichiura

Scanned with CamScanner

skennikjestrjok() -a

Printitude A

- e- Affatoxin HI
- 4- Betal Sun
- Ninvastines

Q-1" A 65 years old female presented with bilateral avarian masses. The patient also has a previous history of Caremona stomach, what are these tomours is ovaries scaled as

- 2. Kukenberg tumor
- Klatskia namou:
- 2+ Sister Mary joneph nadule
- d- Undifferentiated terroring
- Adenocarcinomi

Q-18. A 60 years old male presented with adequecatelessons colon. To vege back by lead a colon. of adenomias with multiple genetic changes. Which of the following mechanisms is actually involved in ferration of tomour.

- Self sufficiency in growth signals
- In sensitivity to growth inhibitory signals
  - :- Insensitivity to growth signals
  - d- Aportoxis
  - Inability to invade and including

Q-19 Which factor is responsible for sustained assempenesis for spread of monour



- b- ECM
- c FGF
- d- Epidermal growth factor
- e- Platelet derived growth factor.

Q-20 A 45 years old female presented with intest consiguing and the imment is about the manual in about the manual in about the manual in the contract of the metassis. The turnour is found to have a malignant cytology with hyperchromatic racket and and scoplastic, which pathway this tumour has adapted to reach the incustationic

Vasc lar spicad

Lymphatic spread

- c- Direct invasion
- d- Scotling of body cavities
- e- Introgenic spread.

- 51 Cardine Burther
- es. Referris
- di Loss of serbations

Q-12 A patient came to emergency with fever, mutaise, weight loss and paller of skin. The patient is a known case of circlessis of laye. Ultransmit of liver reveals a mass, which has infiltrative pattern. What is the most important cause of his disease.

- (3) Montal consumption To Cigarette smeking
  - co. Environmental carcinogen
  - de d'Allighe
  - e- Non infectious agents.

Q-13 When dysplastic changes are marked and involve the full thickness of the epithelium had the lexion doesn't penetrate the basement membrane, it is called as

- (h) Carcinoma intaito
  - b. Severe dysplana
  - e- Mild dysplasia
  - d- Moderate dysplasia
  - e- Anapalsia

Q-14 CEA is a tumour marker for the diagnosis of

- a. Prostatic carcinomus
- b- Breast carcinoma
- e- Endometrial careinorna
- d.) Colonie carcinoma
- Gastric carcinoma
- (Q-13) The breast cancer risk in females injecting mutated copies of which tumor suppressor genes?
  - (a) BRCA1 and BRCA2
  - b. KRAS
  - Cytochroma P450
  - d- Proto-oncogenes'
  - · e- Apoptosis regulatory genes

Q- 16 A patient came to the emergency department with sewer cough, fever weight loss, and haemoptysis. The patient is a known case of adenocarcinoma long. Which chemical carcinoger is involved for causing this neopleant

- 23. A patient presented with non-bloody diarrhea, flatulence and abdominal pain. She gave histogentaminated water. Stool examination showed cysts in facces. The trophozoites of this organism teat drop shaped or pear shaped with a sucking disc at its anterior end. The most likely organism is:
  - Malariae falciparum
  - h. Hook weem
    - Giardia lambia
  - Hymenolepsis nana
  - e. Taenia soilum
- 24. A patient taking anti malarial drugs irregularly for chronic falciparum malaria now presented with complain of dark or black colored urine. Black water fever was diagnosed. The dark color of the urine is because of:
  - presence of malarial parasites in urine
  - b. hernolysis destroying affected parasitized RBCs and unaffected RBCs
  - Presence of proteins in urine
  - d. Excretion of the anti-malarial drugs in urine
  - e. Excretion of glucose
- 35. Abdominal ultrasound of a patient showed liver abscess. The pus was aspirated and examined which aboved amochic trophozoites. Which of the following is the characteristic of the liver abscess caused by amochic dysentery?
  - yellow colored pas containing dead bacteria
  - b Chocolate colored pus containing red blood cells and dead liver cells
  - extensive necrosis
  - d. Pus containing only E.histolytica cysts
  - granulation tissue
- 26. An othicte went to Olympics experienced a superficial infection in his foot. Multiple papules surrounded by clear area of normal skin were observed by him. His was diagnosed to have athletes foot. Which pathogen is responsible for his lesion?
  - a. Sporothrix schenckii
  - Tinea versicolar
  - c. Thea rigra
  - d. Dermatophytes/Ringworm
  - e. Staphylococcus aureus
- 27. A 45 year old diabetic female is diagnosed with vulvovaginitis. When a smear is made, an oval shaped structure with a single bud is seen. Which of the following is the most likely organism?
  - Coccidiaides immitis
  - Malassezia furfur
    - spergillus fernigates
    - Preumocystis carinii
  - a. Candida albicans
- 28. 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. The most appropriate laboratory procedure would be:

Pathalogy F-15-129 OUSTON STONE AMIN.

e. None of the above (a-c)

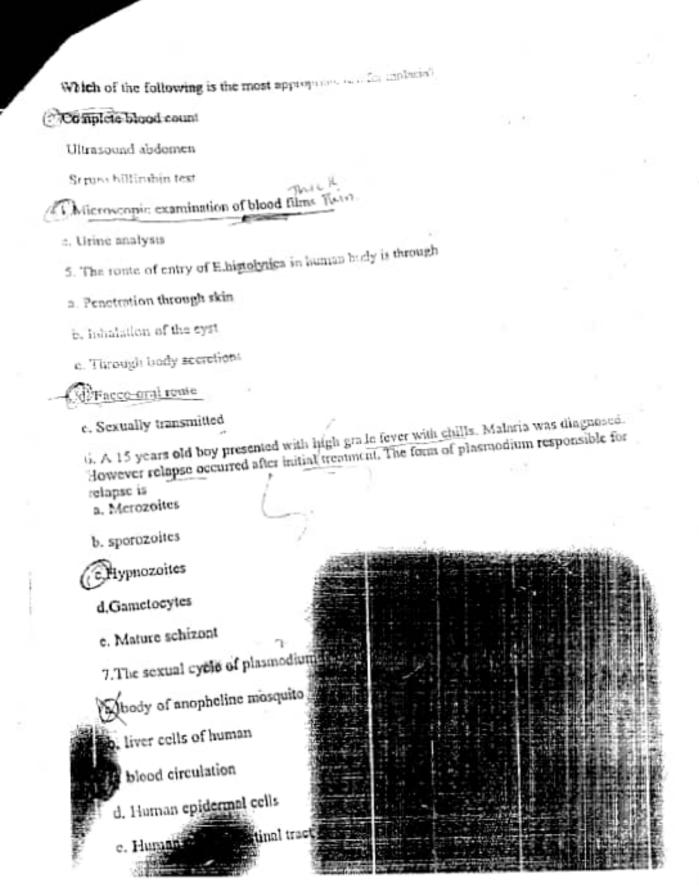
Hepatitis C virus belongs to which virus family?

- a. Paramyxoviridae
- b. Calciviridae
- c. Picornaviridae
- d. Bunyaviridae
- (d.) Flaviviridae
- 116. Which of the following is true of Haemophilus influenzae?
  - Invasive infections are most commonly associated with encaproduction strains
  - Most invasive infections occur in infants during the neonatal period
  - 3. Most human infections are acquired from domestic pets
  - The organism can be readily cultured on sheep blood again an environment of elevated CO<sub>2</sub>
  - Older adults are rarely at risk for infection with this organism because they typically have a high level of immunity
- 117. For which of the following organisms is there no known animal reservoir?
  - 1. Yersinia pestis
  - ② Bordetella pertussis
  - Borrelia burgdorferi
  - 4. Borrelia recurrentis
  - Brucella
- 118. Which of the following is true about Bordetella pertussis?
  - t is strict aerobe
    - 2. It is strict anaerobe
    - 3. It can ferment sugars
  - 4. It needs factors X and V for its growth
  - 5. It is a common cause of pneumonia
- 119. Haemophilus influenzae colonize the upper respiratory tract and cash spread from there to the meninges. What essential virulence factor, that aids meningeal spread, is produced by this organism?
  - IgA protease
  - Endotoxin
  - Exotoxin
  - 4. Thick peptidoglycan
  - (5) Polysaccharide capsule
- 120. A 25-year-old presented with 5-day history of fever, malaise, and headache.

  He has three "Bull's eye" lesions on his thighs. Lesions are 10-15 cm in
  diameter, oval with somewhat irregular outlines, with 3-4 cm red borders and



- Block p53 activity (i) Increased KRAS d) BRAF mutation e) C-Kit mutation Which of the following are not characteristic of malignant neoplasm? 132. B) They are polyclonal b) They can metastize to distant sites c) They are monoclonal d) They are self-sufficient in growth signals e) They have increased angiogenesis Genes that promote autonomous cell growth are in cancer cells are called? a) Proto-oncogenes b) Oncoproteins (a) Oncogenes d) Mutaled genes e) Growth factors Chromosomal translocation t(9;22) relate to which of the following 134. tumors? a) Burkitts lymphoma (b) Chronic myelogenous leukemia c) Follicular lymphoma d) Melanoma e) Squamous cell carcinoma Which of the following gene is known as guardian of genome? 135. a) RB gene b) K-RAS c) BRAF P53
- - el C-MYC
- A 60/M had a chest radiograph that reveals a right hilar mass. Biopsy of this mass revealed well differentiated squamous cell carcinoma. What is the most common initial pathway of spread of this tumor?
- Regional lymph nodes
  - b) Bloodstream
- c) Pleural cavity



- 51. A 30 years old female attended your clinic i.e. with the complaint of vaccoal itching and malodorous discharge. You should include one of the following in your work up for the diagnosis.
- a. Ova and parasite fecal smear
- b. Wet mount of vaginal fluid
- c. Specific serologic test
- d. Stool culture
- e. None of the above
- 52. A patient was received in emergency department with complaints of low grade fever, chronic cough, night sweats and body aches. tuberculosis was among the top differentials. Which media is used to culture this pathogen?
  - a. Lofflers medium
  - (b) Lowenstein-Jensen media LT
  - C. Tellurite medium
  - d. Chocolate agar
  - e. Blood agar
- 53. After successful diagnosis and treatment of a patient of malignant largar majaria you should tell your patient:
  - There is little chance of relapse in 1-3 years
  - b. Hypersensitivity to the parasite may have developed
  - c. Due to possible resistance additional course of treatment is required
  - d. Patient must avoid mosquito bites as relapse of malaria may be induced.
  - e. All of the above
- 54. Cysticercus cellulosae is found in:
  - a. Cow
  - b. Pig v
  - c. Human
  - d. Dog
  - (B' and 'C' are correct
- 55. A known case of tuberculosis on ATT (anti-tuberculosis therapy), came to the outpatient department for follow up. His tuberculin skin test was positive Tuberculin skin tests is a type of:
  - a Immediate hypersensitivity reaction
  - Type IV hypersensitivity reaction
  - c. Type II hypersensitivity reaction
  - d. Type III hypersensitivity reaction

1. Proteuti vulgaria Staphylococcus aureus Pseudomonas aeruginosa Campylobacter Yersinia psedotuberculosis FI. A 32 year old man admitted in medical ward for foul smelling diarrhea containing blood developed symptoms of Guillian Barre syndrome after 48 hours. The most likely pathogen is: 1 Shigella Escherichia coli 33 Campylobacter jejuni Helicobacter pylori Vibrio cholera 92. What is the basis of the noninvasive breath test used to diagnose H.pylori infection? Catalase production Congulase production Carbon dioxide production 3) Urease production Hydragen sulfide production Definitive diagnosis of recent dengue virus infection is established by: Decreased platelet count Anti- dengue IgG antibodies Anti-dengue IgM antibodies 4. Increased haematocrit (PCV) Decreased MCV 94. The complication(s) of mumps especially in pre-pubertal age group is/are: 1. Orchitis - in post puberbal age Otitis media Oophoritis Cervical lymphadenitis 1. Malaise and fever
2. Muscle pain and dry cough
3. Reyes syndrome
4. All of the above

1. Malaise and fever
2. Muscle pain and dry cough
3. Reyes syndrome
4. All of the above

Sever muscle

Carpel : Malaise and symptoms?

Sever muscle

Carpel : Malaise and symptoms?

Sever muscle

Carpel : Malaise and symptoms?

Sever muscle

Carpel : Malaise and symptoms? 5. Orchitis and cophoritis

Increased hydrostatic pressure

- Endothelial damage
- d. Lymphatic obstruction
- e. Increased vascular permeability
- 80 Reduced plasma oncotic pressure is most important mechanism of edema in:
  - ( al) Nephrotic syndrome
    - Congestive heart failure
    - Pedal edema due to deep vein thrombosis
    - d. Edema due to lymphatic obstruction
    - e. Szain flemorrhage
- XI. Turner's syndrome has:
  - a,) 45 chromosomes
    - b. 47 chromosomes
    - c. 44 chromosomes
    - d. 48 chromosomes
    - e. 49 chromossomes
- 82. Indication for prenantal analysis:
  - a. Mother age < 20 years</li>
  - b. Mother age 25 years
  - Mother > 35years
  - d. Mother with anemia
  - e. Mother age 30 years
- 83. Following is not autosomal dominant disease:
- Huntington disease. b. Neurofibromatosis
  - Myotonic dystrophy-
  - d Tuberous scierosis

  - e Hemochromatosis
- 84. Cytogenetics include following technique:
  - a. CBC
  - Serum electrolyte
  - Spectrophotometry
  - d) FISH
  - e. C-reactive protein
- 85. Mitochondrial DNA is always inherited from:

- 8. Mame the non-invasive test for the diagnosis of Helicobacter pylori
  - a. ELISA
  - b. ammonia breath test
  - Urease breath test
  - d. Culture & Sensitivity
  - e. Biopsy
- 9. Which of the following statement regarding the biochemical test for Klebsiella is incorrect?
  - a. E.coli is Indole positive
  - b. Ecoli is motile
  - c. Klebsiella is citrate positive
  - Klebsiella is motile & Indole positive
  - Klebsiella is urease positive
- 10. Triple sugar iron agar (TSI) showing an alkaline slant/alkaline butt (Red/Red) appearance. Which extra most likely causative agent?
  - a. Salmonella
  - b. Shigella
  - c. Pseudomonas
  - d. Proteus
  - e. E.coli
- 11. A 7-year-old girl was well until about 3 weeks ago, when she began complaining of being "tired all the time." On exam, her temperature is 38°C and there is tenderness below the right knee. Hemoglobin: 10.2; WBC: 9600 with increased neutrophils. A sickle cell preparation shows a moderate sickling tendency. Gram-negative, non-lactose fermenting rods grew in the blood culture. Name the emissive agent:
  - a. Micrococcus
  - b. Escherichia
  - c. Pseudomonas
  - d. Salmanella
  - e. Streptococcus
- 12. A 20-year-old man has a swollen, red, hot, tender ankle, accompanied by a temperature of 100 Y to a past 2 days. There is no history of trauma. Gram-negative diplococci in joint fluid aspirate sects. Organism is oxidase-positive. Which of the following is the causative agent?
  - a. Staphylococcus aureus
  - b. Enteococcus
  - c. Streptococcus pyogenes
  - d. Neisserin gonorrhoeae
  - Streptococcus epidermidis

102,	Carcinogenic agents which can induce tumors in initiated cells, but the
	re non tumorigenic by themselves are known as:
	Initiators
b.	Preneoplastic clones
S	Polycional
(d	Promoters
9.	Binding agents
103.	Which of the following carcinogenic agents are used as cancer
cf	nemotherapeutic drugs?
3	Benzol
b.	Dibenz
C.	Naphthylamine -
(d)	Alkylating agents
. 0.	1.44
104.	Chromosomal translocation (8;14) relate to which of the following tumors?
(ii)	Burkitts lymphoma
b.	en i
C	
	Squamous cell carcinoma
	Melanoma
105.	In which of the following syndrome there are increased chances of skin
3,1,000	ncers?
	MEN syndrome
	Cameya syndrome
18	Xeroderma pigmentosa
12	FAP syndrome
	Marfan syndrome
300.	The cell involved in the first line of defense against viral infection is:
	T-onli
~~	N-K cell
6	
	Macrophages Dendritic cell
a.	A complement component which is strongly chemotactic for neutrophils is:
	C3b
	C5b .
ď.	
@	
	Which cell type produces antibodies?
a	A Macrophages





## Azra Naheed Medical College

# Annual Examination

MBBS 3" Year (2nd Entry) (Pathology-Objective Part)

Time Allowed: 1 hour

Total Marks: 50

Rell Hat

### instructions:

- 1. All objective questions are to be attempted on the paper and returned to the invigilator within specified time after you have received the question paper.
- 2. Any cuttings or overwriting in answering the objective part will not be accepted and no marks will be given even if the answer is correct.

## Choose the best answer. 01 mark for each MCQ.

- Which of the following are not characteristic of malignant neoplasm?
  - They can metastize to distant sites
  - b. They are monoclonal
  - c. They are polyclonal
  - d. Tirey are self-sufficient in growth signals
  - e. They have increased angiogenesis
- Genes that promote autonomous cell growth in cancer cells are called?
  - a. Oncogenes
  - b. Proto-oncogenes
  - Oncoproteins
  - d. Mutated genes
  - e. Growth factors
- 3. Hematogenous spread is the preferential pathway of metastasis of which of the following tumors?
  - Lymphoma
  - b. Sarcoma
  - c. Carcinoma
  - d Teratoma
  - e. Melanoma
- d. Hypercalcemia is a considered to be perancopleatic syndrome of which of the following tumor?
  - a. Ovarian carcinoma
  - b. Pancreatic carcinoma
  - c. Squamous cell carcinoma of lung
  - d. Hepatocellular carcinoma
  - a. Basal cell carcinoma

13	Only 'A' and 'B' are correct		
96 W	high of the following is not -		
1.	hich of the following is not a property of Rhabdoviruses?		
2.	and enveloped viruses of the Size of /Sizi x 180mm		
	20 (26%) and	carbiglygo	rules des
3	their genomes are ssking, linear, non-segmented and regetting	e senso	
G	Their replication is very specific and it occurs in nucleus		
D	Coyotos are highly susceptible to them		
97, W	high of the following is not a complication of measles?		
1.	Othis media		
2	Giant cell pneumonia		
3,	Acute encephalitis		
4	SSPE		
(5)	Post-auricular lymphadenopathy		
98. Fe	tal malformations occur in which percentage if rubella is		
fire	t trimester of pregnancy?	acquire	a during
0	85%		
2	75%		
3.	65%		
	55%		
	50%		
1	ich form of polio vaccine(s) can produce best results? Live attenuated vaccine		
-	Killed virus vaccine		
	Subunit vaccine		
	Conjugated vaccine		
3. 1	Glied and live attenuated vaccines given together		
00. 1	wortality rate in Ebola virus disease can be as high as:		
11.	10%		
2 5			
3. €			
4. 7			***
<b>@</b> 8	0%		
101.	The extent to which neoplastic cells resemble	4 hours	
c	ounterparts both morphologically and functionally is known	their	norma)
(a.) [	ifferentiation	257	
-	naplasia		-
	eoplasia		
	ysplasia		
	etaplasia		
U. 10	alculum		

- c. Clostndium perfenngens
- d. Listeria monocytogenes
- e. Enterococcus fecalis

Muscle contraction

- 47. A patient presented to emergency department with spastic paralysis and locked law. He had history of road traffic accident a few days back. Laboratory results revealed Gram positive spore forming anaerobes. What is the mechanism of action of this organism?
  - a. Inhibition of Acetylcholine
  - b. Fermation of Protective antigen
  - Chinhibition of Glycine and GABA
  - d. Stimulation of Proteins
  - e. Activation of acetylcholine esterase
- 48. A young married women was received in gynaecology 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
  - Trichomonas vaginalis
  - Gardnerella vaginalis 🥎
    - d. Lactobacilli
    - e. Gonococci
- 49. A shephard presented to the dermatology department with painless ulcer with black eachar on his hand. He had history of trauma a few days back. Which of the following Gram positive rod, also used for blo-terrorism is the most likely causative agent?
  - Bacillus anthracis
  - Clostridium tetani
  - Bacillus cereus
  - Clostridium perferingens
  - Corynebacterium diphtheria
- 50. 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 tumbling motility. What is the most likely causative agent?
  - a. Neisseria meningitidis
  - Streptococcus prieumoniae
  - ਿੱਟੀ) Listeria monocytog<u>eries</u>
  - Streptococcus agalactiae
  - e. E.coli

- 45. If the following features of the acute inflar-matory reaction were placed in chronological order which would come fourth?
  - a. Arteriolar contraction
  - b. Blood flow slows
- Dilatation of arterioles
- Emigration of leucocytes from blood vesses
  - e. Protein-rich fluid escapes from blood vessels
- 46. Which one of the following ultrastructural features is believed to allow for the monatorial personbility. of the vascular endothelium in acutely inflamed rissue?
  - Cytoplasmic pinocytotic vesicles
- Gaps in endothelial tight junctions
  - Gaps in basement membrane
  - d. Increase in number of phagolysosomes
  - No morphological changes
- 47. Which of the following will impair wound braling
  - n. Deficiency of Vit-C
  - b. Excess of glucocorticoids
  - c. Tissue hypoxia
- d. Poor vascular supply
  - All of the above
  - 48. Which of the following substance is produced by action of lipo-exygenase on arachidonic acid is a potent chemotactic for neutrophils and cause: aggregation and adhesion of leukacytes
    - a. CSa
    - b. Prostneyelin
- it. 11.-8
- Thromboxage 4.2
  - 49. An 18 year old man lacerated his left hand and required sutures. The sutures were removed any week later. Wound healing continued but the site became disfigured by a pruminent russed scar that developed over the next two months. Which of the following terms best describes the process that occurred during this two months period.
- Keloid formation
  - b. Organization
  - c. Dehisence
  - d. Resolution
  - e. Secondary union.
  - 50. In cleaning of the clean wound maximum immediate strength of the wound is mached by:
    - a. 2-3 days
    - b. 4-7 days
    - c. 10-12 days
- (1) 13-18 days
  - e. 6months

A 5-FU. B. 6-MP. C. 6-TG. D. Fludarabine. E. Cyturabine.

7 Mucositis develops in a patient undergoing cancer chemotherapy with methotrexate.
Administration of which one of the following agents would help?

Aleucovorin, B. Filgrastim. C. Prednisone. D. Vitamin B<sub>13</sub>.

8 Which of the following drugs is recommended for the treatment of severe, multidrusresistant Plasmodium fulciparum malaria?
A. Artemisinin.
B. Chloroquine.
C. Duinine.
D. Sodium stibogluconate.
E. Primoquine.

- 1. Mast Cell
- Eosinophil
- (3) Giant Cell
- 4. Neutrophil
- Plasma Cell
- 28. Woman 43-year had a chronic cough with fever & weight loss for past month: A chest radiograph reveals multiple nodules from 1 to 4 cm in size, along with cavitations in the upper lobes. A sputum sample reveals the presence of acid fast bacilli. Which of the following cells is the most important in the development her lung lesions?
  - Macrophage
  - Fibroblast
  - Neutrophil
  - Mast Cell
  - 5. Platelet

- 29. An inflammatory process that has continued for 3 months includes the transformation of tissue macrophages to epithelioid cells. There are also lymphocytes present. Over time, fibroblasts lay down collagen as the focus of inflammation heals. These events are most likely to occur as an inflammatory response to which of the following infectious agents?
  - (1) Mycobacterium tuberculosis
  - Pseudomonas aeruginosa
  - Cytomegalovirus
  - Giardia lembli
  - 5. HIV
- 30. The most potent vasodilator in body is
  - (1) Bradykinin
  - 2. Nitric oxide & neutrophils
  - 3. Nitric oxide & histamine
  - 4. Histamine
  - 5. TNF-a
- 31. Chemotaxis is the process in which:
  - a. There is phagocytosis of foreign material.
  - Exudation of fluid occurs.
  - (a) Leukocytes are attracted to & move towards the sites of injury.



#### Department of Pathology Azra Naheed Medical College Half book Test, 25 August 2017 MBBS 3" Year (MCQ) (Microbiology)

Time Allowed: 30 min

Total Marks: 30

Instructions

- All objective questions are to be attempted on the paper and returned to the invigilator within specified time after you have received the question paper.
- Any cuttings or everwriting in answering the objective part will not be accepted and no marks will be given even if the answer is correct.
- 1. Bacterial pill may enhance virulence of bacterial pathogens by:
  - a. Transporting nutrients
  - b. Providing a means of attachment
  - c. Increasing the surface area of bacteria.
  - d. Being an endotoxin
  - e. By acting as an exotoxin
- 2. Which of the following phases of growth curve would most likely be missing detectable growth, but having vigorous metabolic activity?
  - a. Lag phase
  - b. Log phase
  - c. Stationary phase
  - d. Death phase
  - e. Decline phase
- 3. The ability to use compounds and lons other than oxygen as terminal oxidants in respiration is a widespread trait used by facultative bacteria to grow in the absence oxygen. This capacity is called as:
  - a. Photosynthesis
  - b. Fermentation
  - c. Anaerobic respiration
  - d. Substrate phosphorylation
  - e. Nitrogen fixation

100			
161	Enveloped	viruses	only

- Some naked and some enveloped viruses
- d. Both 'A' and 'B' are correct
- e. Both 'B' and 'C' are correct
- 74. Continuous cell lines for virus culture are derived from:
  - HeLa cells
  - g g Cervical cancer cells
  - h. Human amnion cells
- Both 'A' and 'B' are correct
  - Both 'B' and 'C' are correct
- 75. Size of the largest virus particle is:
  - a. 100 nm
  - b. 200 nm
  - 300 nm
    - d. 400 nm
    - e. 500 nm
  - 76. Which of the following convert plasma protein fibringen into the insoluble fibrous protein fibrin?
- (a) Thrombin
  - b. Prothombin
  - c. Fibrinogen
  - d. Fibrinanectin
  - e. Epinephrine
- Endothelial injury stasis or turbulence of blood flow and blood hypercoagubility form so called:
  - a. Coagulation cascade
  - b. Extrinsic pathway
  - c, Intrinsic pathway
  - (d) Virchows triad
    - e. Plasminogen plasma system
- 78. If the blood supply of an organ is compromised, minimum how much terequired to show demonstrable Histologic findings?
  - a. 0-60 sec
  - b. 2-4 hrs
  - c. 4-12 hrs
  - d. 12-24 hrs
  - e. 24-36 hrs
- 79. Which of the following is mechanism of edema in patients with congestive heart failure?
  - Decreased plasma oncotic pressure

- " do Inheritance of defects in DNA report gener, that increase the senceptibility to develop
- c) Overexpression of grawth factor receptor genes
- Q. 4 Which one of the genes is Governor of the sell cycle

n. psi - Craudia

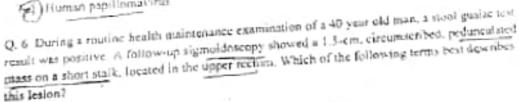
b- P16

c. Ith gene

d. C-mye

e-RAS per - once praton

- Q. 5 An epidemiologic study is performed to goess risks for servical careinstens. The cells from cervical lesions in a population of women are analyzed. Binding of certain smal process to pRH is found in patients in whom dysplastic cells are present. Viral proteins from which of the following are most likely to bim! uRB, increasing the risk for dysplasts? BRA-SHIP
  - a) Cytomegalovirus
  - b) Egstein-Bart virus
  - e) Herpes simplex virus
  - 6) HIV
  - (F) Human papillomavinus



- a) Adenomo
- b) Hamartoma
- c) Sarcoma
- (d) Choristom#
- Q. 7. A 40 year old man notices an increasing number of lumps in the groin and armpit. On physical examination, he has generalized nontender lymph node enlargement and hepatosplenomegaly. An inguinal lymph node biopsy specimen shows a malignant tumor of lymphold cells. Immunoperoxidase staining of the tumor cells with antibody to BCL2 is positive in the lymphocytic cell nuclei. Which of the following mechanisms has most likely produced the ymphoma?
  - i) Increased tyrosine kinase netivity



9 x Al TIL Parasitelagy 10/7/17 Parasites | MCGs 1. A 50 years old male presented with severe abdominal pain and bloody stools with mucus-"Secutory findings and clinical tests reveals amoebias is. Which of the following will be the most appropriate investigal finding in this patient? L Carble stone appointment of the intestine 2. A 20 years old female gave history of high grade few showed pallor and spleenomegaly, Fever occurred every f characteristic of Plasmodium falciparum Hookworm infection c. Plasmodium ovale d. plasmodium materiac e. Giardia lumbia pitated and examine 3. Abdominal ultrasound of which showed amochic trop abscess caused by amoebic a. yellow colored pus conf

(b) Chocolate colored pus

d. Pus containing only H

c. granulation tissue

Extensive necrosis

- e) All of the above
- tongue in some HIV infected persons and transplant patients. Which one of the following viruses is the most probable cause of this disease condition?
- a Epstein Barr virus
- b) Human Herpes virus 6
- c) Human Herpes virus 7
- d) Human Herpes virus 8
- Human immunodeficiency virus
- 153. Among patients of EBV infection which of the following statement is correct?
- a) The presence of IgM is indicative of current infection
- b) The presence of IgG is indicative of past infection
  - Antibodies to EBNA antigens revel past infection with EBV
- (d) All of the above (a-c)
  - e) Only a & b are correct
  - 154. A previously healthy 4 year girl develops classic viral childhood illness. Which of the following primary viral infection of childhood is usually symptomatic?
  - a) Hepatitis B virus
  - b) Cytomegalovirus
  - c) Varicella zoster virus
  - d) Epstein Barr virus
  - e) All of the above
  - 155. HIV-1 encodes an envelop glycoprotein, gp120. This protein:
  - (a) is highly conserved among different isolates
  - b) Fails to elicit neutralizing antibodies
  - c) Induces chemokine production
  - d) Causes membrane fusion
  - e) None of the above
  - 156. In WNT signaling pathway, role of APC is to regulate the stability & function of which of the following gene?
  - a) NF1
  - b) NF2
  - c) E-Cadherin
  - (ii) Beta-catenin
  - e) PTEN

V

$\sim$	Metronidazole.
٠,٠٠٠	Pentamidine.
2	Stit ogluconate.
E-	Stir alternation

B. Quinidine. D. Sulfadoxine.

E. Stit, ogluconate.	D, guitage		
	resis can prevent the renal toxic	ity associated with:	
18. Hydration and/or diff	B. Chlorambucil.		
Cisplatin.	D. Gemcitabine.		
C. Talifoxitess.			
19. Which of the follows	ng drugs used to prevent allogn	aft rejection can cause	
hyperlipidemia?	B. Basiliximab.		7.0
Azathioprine	D. Mycophenolate mofeti	L.	
C Tacrolimus	D. Mycopile		
20. Dexrazoxena is prote	ective against cardiotoxicity car	ised by:	
<ul> <li>A. methylprednisolone,</li> </ul>	D. sirolimus		
C. Topotecan		and the second	
21. The plant derived an polymerization of tubuli	nti cancer agents that act in M p	hase of cell cycle and arrest	
polymerization	~		
	Vinca alkaloids  Epipodophylotoxins		
22. Administration of acord	aid reducing drugs like omepran	cole may result in rechiced abs	athmen
•	0.40-06	D, Mg	
A ton B, Vit B	12 C. Vit B6		
23. The acid suppressin regimen for H. Pylori a	g drugs which are used in pepti	c ulcer disease and in eradica	tion
regimen for 11. Lyangar		D. Antimuscarinic	
A. Antacids	PPIs C. H2 blockers		100
A Enteroperate	ving drugs is contraindicated in B. FSH and LH Cluso		
<ol> <li>Oral contraceptives</li> <li>Menstrual regulation</li> </ol>	Treatment of breast of	arcinema , C. Contraceptio	n D.
Dysmenorrhea			

- 27. C. diphtherice causes diphtheria, a mae discuse in the adoits in Pakistan. C diphtheric characterized by which of the following statements?
  - n. It secretes erythrogenic toxin that causes the characteristic signs of searlet fever
  - is. It produces toxin that blocks protein synthesis in an infected cell and carries a his a recommended that produces the genetic information for text a production
- c. It requires cystiene for growth
  - d.It secretes exotoxin that has been called verotoxin and Shiga-like toxin
  - Ot produces at least one toxin consisting of two subunits, A and B) that cause severe spassmodic cough usually in children
- 22. Tetanus is a disease caused by clostrictions totani. 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 endowxist:

- The toxin prevents the release of inhibitory neurotransmitter
- d. Clastridium retant is sensitive to peniciil.n
- e. Risus sardonicus is the typical fascial sp.:sm
- 23. Which of the following Gram positive root is weakly acta fast?
  - a. Clostridium hotilinum
  - Actinomycetes israelii
- Nocardia asteroides
  - d. Corynebacterium diphtherine
  - a. Gardnerstts
- 24. A patient is admitted with severe substernal chest pain of 4 hours duration. Lab tests arread increased level of the serum creatine kinuse. This is most likely due to:
  - a. Mitochondrial swelling
  - b. Nuclear lysis
  - Damage of plasma membranes
  - d. Increased encoplasmic reticulum
  - c. 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 Nat and K+
- 26. Cell death caused by autolysis is produced by
  - a. Antibodies
  - Endogenous enzymes
  - c. Phagocytic leukocytes
  - d. Bacterial enzymes
  - c. Anoxia

<ul> <li>Easily visible in the light microscope</li> </ul>	
<ul> <li>Grow well in bacteriological culture media</li> </ul>	
d) Divide by nuclear division inside the host cell	
(i) Obligate intracellular bacteria	
142. Which of the following organisms is transmitted dire	ctly from
human-to-human?	
a) Coxiella burnetii	
b) Rickettsia prowazekii	
c) Rickettsia tsutsugamushi	-
d) Rickettsia rickettsii	
e) Rickettsia typhi	
143. Rockey mountain spotted fever is caused by:	
a) Coxiella burnetii	
b) Rickettsia prowazekii	
c) Rickettsia tautaugamushi	
Rickettsia rickettsii	
e) Rickettsia typhi	
f)	
144. Trachoma is caused by:	
(a) Chlamydia trachomatis immunotypes A-C	
h) Chlamydia trachomatis immunotypes ICR	
c) Chlamydia trachomatis immunotypes A-L	
d) Chlamydia Irachomatis immunotypes L1-L3	
e) Chlamydia trachomatis immunotypes D-K	
145. Chlamydia trachomatis is associated with the following	ng except:
a) Endemic trachoma	
b) Inclusion conjunctivitis	
c) Lymphogranuloma venereum	
Community acquired pneumonia	
e) Nongonococcal urethritis	
146. Smallest free living organisms are:	
(a) Mycoplasmas (	
b) Viruses	
c) Chlamydia	
d) Rickettsia.	
e) Coxiella burnetii	

A 36-year-old male of Le qualaria. He experiences severe for following antimalarial drugs is m	ctioner hack cath, and G	STREETED BY NAME AN ADDRESS OF	ne of the
following antimalarial drugs is in	Artemisinin	C. Chloroquine.	
A. I STILL THE	Deiengouine	and the second second	
D. Quinine.  Hyperthyroidism can be	treated by all but which	one of the following?	
		al of the thyroid gland.	
	D. Prepyithiouraci	il.	
	ng normones is a non-p	entide, allowing oral ad	Iministration?
及	Chowai nonnone		
Q	Thyroxine		
Ino ability to reduce ins	ulin moistance is associ	ated with which one of	the following
classes of hypoglycemic agents	7		
4. Megitinides.	15. 51111003	lureas.	
C. Gludosidase inhibitors.	Thinzo	lidinediones.	
E. Gastrointestinal hormones.			
13 Estrogen replacement th	versny in menopausal w	omen:	
A Restores bone loss accompa	nying osteoporosis.	B. May induce hot	flashes
May entire atrophic variniti	5.		
are the second of the second o	4 of the first signs of mic	nopause.	
E. Requires higher doses of est	togen than with oral cor	atraceptive therapy.	
14 4 23 years old woman l	es failed to become pre	gnant after 2 years of the	nprotected
intercourse. Which of the follo	wing would be effective	e in treating infertility d	ue to
apovulatory cycles?			
A A combination of an estrog	en and progestin	<ul> <li>B. Estrogen alone</li> <li>D. Raloxifene.</li> </ul>	
L = J· XIO=		D. Ratowites	
15 Young athletes who ab	ouse androgens should b	e made aware of the sid	c effects of
these drugs. Which one of the	TOTHER IS DOWEVEL.	to bone marrow failure.	
A Increased muscle mass.		ermatogenesis.	
E. Stunted growth.	D. Doctor		
16. Osteoperosis is a major ac	iverse effect caused by	the glucocorticoids. It is	due to their
ability to:			
A. Increase the excretion of c	alcium. B Inhib	ease production of prost	aglandins.
C. Stimulate the HPA axis.	D. Decr	case production of pros-	ing ministro.
17. A 22-year-old man, who Examination of stool specime of the following drugs would	ens shows binucleate or	ESHIPHE AND TORL LINES.	Hanne As trades to the

- 126. In malignant tumors nuclear: cytoplasmic ratio is disturbed & becomes?
  - a. 1:4
  - b. 1:6
  - (C) 1:1
  - d. 16:1
  - e. 8:1
- examination, which revealed a polygoidal growth in bladder. The biopsy of this mass revealed highly fundifferentiated tumor with bizarre tooking relies at applical mitosis. Which of the following term will describe this morphology.
  - a. Dysplasia
  - b. Neoplasia
  - c. Sarcoma
  - d. Schirrous
  - (d) Anaptasia
- 128. The net effect of Human Papilloma Virus Proteins (E6.& E7) is to block apoptosis by which of the following mechanism?
  - a. Enhance p53 activity
  - (b.) Block p53 activity
  - c. Increased KRAS
  - d. BRAF mutation
  - e. C-Kit mutation.
- 129. Which of the following are not characteristic of neoplasm?
  - (a) They are polyclonal
  - They can metastize to distant sites
  - c. They are monoclonal
  - d. They are self-sufficient in growth signals
  - e. They have increased angiogenesis
- 130. In malignant tumors neoplastic parenchymal cells stimulate the formation of abundant collagen stroma. Which of the following term is used to explain this phenomenon?
  - a. Neoplasia
- Desmoplasia
  - c. Anaplasia
  - d. Hyperchromasia
  - e. Aplasia
  - The net effect of HPV proteins (human papilloma virus) E6 & E7 is to block apoptosis by which of the following mechanism.
  - a) Enhance p53 activity

64			
	d) Contiguous spread to chest wall		.7
	e) Bronchi		
	137. Hematogenous spread is the which of the following tumors?	preferential pathway of me	tastasis of
	a) Lymphoma		
	b) Carcinoma		
	c) Teratoma		
	(d) Sarcoma		1
	e) Melanoma		*/
	138. A 42-year-old woman who ha past 30 years has an abnormal Pap	smear with cytologic chang	es
	suggesting human papillomavirus i	nfection. She is most likely	to develop
	which of the following lesions?		100
	<ul> <li>Squamous cell carcinoma</li> </ul>		
	b) Endometrioid carcinoma		
	<ul> <li>c) Kaposi's sarcoma</li> </ul>		
	d) Adenocarcinoma		
	e) Leiomyoma		
	139. A 70/M presented with haemal examination, which revealed a polythis mass revealed highly undifferent atypical mitosis. Which of the followphology?	poidal growth in bladder. Th ntiated tumor with bizarre lo	oking sulfa
	4.4 44 41-		
	c) Sarcoma		
	d) Schirrous		
	(e) Anaplasia		
		to and the state of the state o	al Israah
	140. Which of the following staten	ient is correct about senting	zi iyinibii
	node?	atia basis of a erimany himor	
	<ul> <li>a) Last lymph node in the regional lymph</li> </ul>	and basin of a primary turnor	
	<li>b) 3<sup>rd</sup> lymph node in the regional lymphat</li>	hatia basin of a primary fun	nor
	(c) 1st lymph node in the regional lymp	tio basis of a primary tumor	
	d) 2nd lymph node in the regional lympha	nic dasin of a primary turnor	
	<ul> <li>e) lymph node in the regional lymphatic t</li> </ul>	pasm of a primary turnor	
	141. Which of the following is true	of Rickettsia?	
	a) Very short Gram-negative rods that sta	ain well with the standard Gra-	m starr

2-4 cm central red areas, separated by a beit of paler skin. Which diagnosis is most likely?

- Staphylococcal scalded skin syndrome
- 2. Primary syphilis
- (Behalfy hand gfu)
- 121. Which of the following media is used for isolation of Bordetella pertussis?
  - Blood agar
  - 2. Chocolate agar
  - 3) Bordet-Genguo medium
    - Thays: Martin medium
- 172. An elderly man with chronic heart and lung disease develops Legionella pneumonia. By what route was the infection most likely to have been acquired?
  - Respiratory route, from an infected person
  - Inhalation of spores from all
  - Exposure to livestock or animal products
  - (4.) Inhalation of aerosolized water from a source containing the bacteria
  - Inhalation of bacteria from birds' droppings
- 123. Legionnaires disease:
  - Is easily transmitted from person-to-person
  - 2 Diagnosis is usually confirmed by serological tests
    - The causative organism cannot be grown on bacteriological culture media
    - 4. Is treated with a combination of gentamicin and penicillin
    - Typically present as lobar pneumonia
- 124. Which of the following diseases is very common in sewer workers?
  - 1 Antharax
  - 2. Dengue
  - 3. AIDS
    - Relapsing fever
- 125. Which of the following is the characteristic feature of Mycoplasma?
  - Mycoplasma contains peptidoglycans
  - (2.) Mycoplasma contains both DNA and RNA
    - Host cell DNA is necessary for its replication
  - 5. Cephalosporins are the drug of choice for treatment of infections caused by Mycoplasma pneumoniae

b	T-lymphocytes			
G.	NK			
Ø.	Plasma cells			
e.	Eosinophils			
109.	Toll like receptors are present in:			
_a	Cell wall			
Ob.	Plasma membrane			
C.	Cytosol			
d.	nucleus			
e.	endoplasmic reticulum			
110.	The first line of defense against microbes is:			
<b>(4)</b>	innate immunity			
b.	adaptive immunity			
C.	humoral immunity			
d.	cell mediated immunity			
е.	hypersensitivity			
111.	Acute gingivostomatitis is caused by which one of the foll	owing	viruse	25.7
a,	Cytomogalovirus			
b.	Respiratory syncytial virus			
(3)				
	All of the above (a-c)			
	Only b and c are correct			
112.	The presence of Hepatitis B antigen means your patient is			
	Non immune to infection with HBV			
	Infected with hepatitis B virus			
C.	HBV is replicating in the body at low rate			+
4	All (a-c) are correct			
(e)	Only b and c are correct			
113.	Hepatitis A virus belongs to with virus family:	12		
a.	Flaviviridae			
( <b>.</b> )	Picornaviridae			
	Enteroviridae	ii.		
	Calciviridae			
	Paramyxoviridae	THE REAL PROPERTY.	Interd	DNA
114.	Which of the following DNA Viruses contain a virion	assoc	1411011	DIVI
-	ymerase?			
	Hepatitis 8 virus. Adenovirus			
40	Herpes simplex virus type-1			
	All of the above (a-c)			4
u.	All of the above (arc)			

- A 12 year old patient presents to pediatric OPD with history of 147. hacking cough for three weeks. He has already taken a course of ampacition without any improvement of his cough.X-Ray chest reveals interstitla: pneumonia with patchy infilteration .The physician labels him as a case of "primary atypical pneumonia". What is the most probable organism responsible for this illness?
- a) Hemophillus influenza
- b) Coxiella burnetii
- c) Chlamydia pneumonia
- Mycopiasma Pneumoniae
- e) Chlamydia psittaci
- A distinguishing feature of human Mycoplasma species is that they: 148.
- a). Stain well with Gram stain
- ☼ Contain no bacterial pepidoglycan
- Are not immunogenic because they mimic host cell membrane components
- d) Cannot be cultivated in vitro
- e) Are dependent on host sources of ATP
- A 25 years milkman presented to the emergency department with 149. complaints of high grade fover, headache, severe backache and mychine. and night sweats. The patient told that fever peaks in the evening and slowly returns to normal by morning. A blood culture revealed growth c. small gram negative rods after several days. Which of the following bacteria is the most likely pathogen?
- a) Hemophillus influenza
- b) Coxiella burnetii
- c) Chlamydia pneumonia
- (d) Brucella species
- e) Mycoplasma Pneumoniae
- The most pathogenic Brucella spp. for man is:
- (a) Brucella melitensis
- b) Brucella suis
- c) Brucella abortus
- d) Brucella canis
- e) Brucella species
- A newer virus first detected in 1994 has genomic size of about the Kbp. This virus is said to be the cause of Kaposi's sarcoma and boay cavity lymphomas. Identify this virus.
- a) Epstein Barr virus
- b) Human Herpes virus 6
- c) Human Herpes virus 7
- (d) Human Herpes virus 8

67. Black water fever is a special manifestation of malaria caused by
a) P. falciparum
b. P. malariae
c. P. ovate
d. P. vivax
e. P. knowlęsii
68. A 35 yrs old male presents in emergency with c/o high grade fever and right upper quadrant pain. He gives h/o passing bloody stools 14 days back. O/E
there is tenderness in the right upper quadrant. The most likely cause of
infection is:
a. Giardia lamblia
ty Vibrio cholera
(c) Entamoeba histolytica =
G. Cryptosporidium
e. None of above
19. A 35 yrs old Indain comes to OPD with c/o intermittent fever, weight loss,
petechial hemorrhages and hyperpigmentation of the skin. He also has
hepatomegaly & massive splenomegaly. The most likely cause of infection is:
a. Leishmania tropica
b. Leishmania Mexicana
Leishmania donovani
d. Leishmania major
Leishmania braziliensis     Parasilizad red celle are enlarged to:
70 Parasitized red cells are enlarged in:
b) P. ovale
c. P. malariae
d. P. falciparum
(6) 'A' and 'B' both are correct
11. Essential structural components of a mature virion are:
a. Nucleic acid, capsid and envelope
<ul> <li>Nucleic acid, capsid, envelope and matrix protein</li> </ul>
Nucleic acid, capsid, envelope and DNA polymerase
(d) Nucleic acid and capsid
e. Genome, capsid and envelope
12. Viral genome can be:
a daDNA or daRNA
b. dsDNA and ssRNA
c. ssDNA and dsRNA
d. ssDNA and ssRNA
(b) All of the above
3. Chloroform and ether can inactivate which of the following virus particles?
a Naked viruses only
The state of the s

	¥*	
1		
	c. Enterococcus	. · ·
	(d) E. coli	
	e. Pseudomonas	
	61. Which of the following produces swar blood agar plate?	
	blood agar plate?	ming growth characteristically over
	a. Klebsiella	
	(B.) Proteus	
	c. Salmonella	-
	d. Shigetta	
	e. Enterobacter	
	62. Which of the following bacteria causes dysentery?	the most
	dysentery?	the most severe form of bacillary
	a. Salmonella typhi	
	<ol> <li>Shigella flexneri</li> </ol>	
	<ul> <li>Shigella boydii</li> </ul>	
	d. Shigella sonnoi	
	Shigella dysenteriae ->	
	63. Widal test is used to detect:	
	a. Antigens of Salmonella	
	<ol> <li>Antibodies against salmoneila</li> </ol>	3 1
	Rise in antibody titer in national	
	d. Flagellar antigens of Salmonella	against salmonella
	e. Somatic antigens of Salmonella	
	64. Crescentic gametocytes are observed in:	
	a. P. vivax	
	b. P. ovale	
	g. P. malariae	8
	(d) P. falciparum	
	<ol><li>'A' and 'B' both are correct</li></ol>	
	65. Which of the following pathogens is the	Commonest cause of
		Commonest cause of traveler's
	<ol> <li>Enterohemorrhagic E. coli (EHEC)</li> </ol>	
	b. O157:H7 strains of E. coli	
	Eneroinvasive E. coli	

66. Each of the following parasites is transmitted by mosquitoes EXCEPT:

d Enterotoxigenic E. coli e. Shiga toxin producing E.coli

a. Plamodium falcipaum

e. Dengue virus

 Deishmania Donovani
 Plasmodium vivax d. Wuchereria bancrofti

42. An eight year old boy developed Influenza like signs & symptoms with production of rusty sputum. He was suspected to have pneumonia. Sputum sample was cultured revealing a-hemolytic Gram positive cocci, giving optochin sensitivity. Most likely organism will be?

a) Streptococcus eneumoniae

- b. Enterococci
- c. Staphylococcus aureus
- d. Streptococcus agalatae
- Streptococcus pyogenes
- 43. After extraction of wisdom tooth, a 20 year old male student was diagnosed as a case of sub-acute bacterial endocarditis. Laboratory tests revealed inhemolytic Gram positive coccl. Mark the causative organism.
  - a. Staphylococcus aureus
  - Staphylococcus epidermidis
  - Streptococcus pneumoniae
- Streptococcus viridians
- 🚵 Enteracoccus fecalis
- 44. While walking in a garden, a labourer had a deep prick on the right foot. The condition of his wound aggravated and it refused to heal. Two weeks later he visited a physician who diagnosed the wound as a malignant pustule. This lesion is caused by:

Bacillus stearothermophilus

- 5 esious Bacillus anthracis -
- Corynebacterium diphtheriae
- Clostridium perfringens
- e. Clostridium tetani «
- 45. Aschoffs nodules are caused by:
  - a. Methicillin resistant Staph, aureus
  - b. Hyaluronidase producing Staphylococci
  - Group A, β-hemolytic Streptococci
  - Pseudomonas aeruginosa
  - e. None of the above
- 46. A young girl developed vomiting & nausea 3-4 hours after ingestion of reheated fried rice. On Gram staining Gram positive rods were identified. Which of the following is the most likely causative agent?
  - Staphylococcus aureus

Bacillus cereus



a. E.coli

- b Clostridium
- c. Coliforms
- Ad. Enterococcus



### Chocolate agar is an example of enriched medium used for culturing of:

- Bacteria that grow on simple media
- A Fastidious bacteria
- Non fastidious bacteria
- d. Wall less bacteria
- e. Obligate intracellular parasites

### 14. Which of the following bacteria has flexible thin cell wall?

A Treponema

- Dordeiella
  - z. Legionetta
  - d. Histoplasma
  - e. Brucella

### 15. Bacterial pili may enhance virulence of bacterial pathogens by:

- Transporting nutrients
- Providing a means of attachment
  - Increasing the surface area of bacteria.
  - Being an endotoxin
  - By acting as an exotoxin

#### 16. Which of the following is not a characteristic of bacterial capsules?

- a. Antigenic
- b. Polysaccharide in nature
- Has an endotoxin like action
- At Can be used in identification of bacteria
- c. Anti-phagocytic

#### 17. Typical stages of an infectious disease are?

- Prodrome period, specific-illness period, incubation period and convalescence period.
- b. Prodrome period, incubation period, specific-illness period and convalescence period
- Prodrome period, specific-illness period, convalescence period and incubation period.

- d. 180°C for 2 hours
- c. 100°C for 2 bours

## 7. Which of the following organism is a facultative anaerobe?

- a. Clostridium species
- b. Staphyleocci
- Pseudomonas
  - d. Mycobacterium tuberculosis

Bacteroides

## 8. Which of the following statements is not true regarding transposons?

- a. Also known as jumping genes
- b. Can jump within the chromosome
- Can jump from chromosomes to plasmids
  - d. Can replicate independent of chromosomal replication
  - e. Are nonessential component of bacterial genome

# Which statement is correct regarding bacterial growth curve?

- a. The curve has log lag stationary and death phases in sequence
- The curve has lag log stationary and death phases in sequence
- c. Death rate is maximum during lag phase
- d. Growth rate is maximum in stationary phase
- Growth rate is minimum during stationary phase

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

- a. Vancomycin and penicillins inhibit bacterial cell wall synthesis through
- the same mechanism: Cephalosporins and penicillins inhibit bacterial cell wall synthesis through the same mechanism
  - vancomycin is a protein synthesis inhibitor
  - d. Metronidazole has similar mechanism of action as erythromycin.
  - Chloramphenicol is a cell wall synthesis inhibitor

# 11. Which of the following disinfectant cannot be used for skin?

- a. Hydrogen peroxide
- b. Indophores:

e. Tincture of indine

Scanned with CamScanner

PAHalogy M.

- Which of the following serological technique is based on clamping together of cells or particles as a result of antigen antibody reaction?
  - a. ELISA
  - ICT (Immunochromatography)
  - c. Complement fixation test
  - d. Precipitation test
  - (Agglutination test
- 2. Which one of the following is not a property of exotoxin?
  - Lipo-polysaccharide in nature
    - b. Antigenic
    - c. Protein in nature
    - d. Produced by Gram positive bacteria.
    - e. Produced by Gram negative bacteria,
- 3. Which of the following disinfectants is most effective when its concentration is 70° 67
  - a. Gluteraldehyde
  - b. Formldehyde
  - c. Chlorine
  - (A) Alcohol
  - e. Phenals
- 4. The most appropriate role of Gram's iodine in the Gram staining technique of
  - Decolorization
  - Mordant and forms crystal violet indine complex
    - c. Counter staining
    - d. Act as modarator
    - e. Act as primary stain
- 5. Which of the following is an example of selective media?
  - a. Chocolate agar
  - Lowensteins Jensen's medium
  - c. Blood agar
  - d. MacConkey agar
  - e. Nutrient agnr
- The correct temperature and time for sterilization by pasteurization is:
  - a, 121°C for 15 min
  - @ 62°C for 30 minutes
  - c. 26°C for 30 minutes

- Actiomyces israele e. Bacteroides fragilis
- 37. Which of the following organisms can cause food poisoning?
  - a. Staphylococcus aureus
  - Enterococcus
  - c. Enterotoxigenic E. coll
  - (d) Only 'A' and 'C' are correct
  - e. None of the above
- 38. Which of the following bacilli produce a toxin which inhibits elongation factor-II (EE-2). It virtually stops protein synthesis which results in necrosis?
  - a. Bacillus stearothermophilus
  - b: Bacillus anthracis
  - C Corynebacterium diphtherisa
  - d. Clostridium pedringens
  - e. Clostrickim letani
- .19. Which one of the following non-spore forming filamentous Gram positive gods are weakly acid fast on ZN staining?
- a) Corynebacterium diphtheriae b. Listeria monocytogenes
  - Actinomyces israelii
- Nocardia asteroids
  - e. Gardnerella vaginalis
- 40. Flaccid paralysis is caused by:
  - a. Clostridium difficile
  - -b. Clostridium perfringens
  - c. Clostridium tetani
  - (d) Clostridium botulinum
    - e. 'C' and 'D' are correct.
- 41. A 60 year old immunocompromised patient on renal dialysis complained of tenderness around the peritoneal catheter. On culturing the catheter tip, Gram positive, catalase positive, coagulase negative cocci were isolated. Which of the following is the most likely causative agent?
  - Stephylococcus aureus
  - b. Enterpoaccus
  - c. Lactobacillus
  - **(**()).s

Staphylococcus epidermidis

e. Bacteroides fragilis

SH

ausius

- d. Endothelial cell expansion occurs.
- Transmigration of lymphocytes.
- 32. A 20 year old man experienced painful micturition for 4 days. Urethritis is suspected and Neisseria gonorrheae is cultured. Numerous neutrophils are present in a smear of exudate from the urethra. These neutrophils are most likely to have been caused to undergo dispedesis to reach the organisms as a consequence of release of which of the following chemical mediators'
  - a. Histamine
  - b. Prostaglandin
  - Hageman factor
  - d, Bradykinin
  - Complement c5a
- 33. Fibrinous inflammation is typically found where:
  - blood vessels

Q pericardium

- d. bowel mucosa
- e. endocardium
- 34. Erythema and later on blisters appear on a child's hand after touching a hot not on a stove. Which of the following terms best describe this process?
  - Fibrinous inflammation
    - 2. Purulent inflammation
  - (39 Serous inflammation)
    - Ulceration
    - Granulomatous inflammation
- 35. Which one of the listed substances is produced by the action of lipoxygenase on arachidonic acid, is a potent chemotactic factor by neutrophils, and causes aggregation and adhesion of leukocytes?

13) C5a

Prostacyclin.

IL-8

Thromboxane A2

Leukotriene B4

36. A 30 year old patient presented with a hard, non-tender swelling over the jaw which developed slowly over the last six months following tooth extraction. The swelling shows sinus tracts through which sulfur granules containing pus was draining. Which of the following is the most likely

causative agent?

Staphylococcus aureus

Enterococcus

c. Lactobacillus



e. Squamous cell anaplasia.

#### 23. During atrophy of cell:

- a. Protein synthesis increases.
- b. Cell disappears.
- Cell size decreases
  - d. Cell size increases.
- e. Cellular organelles swell up.

#### 24. In radiation injury basic mechanism is :

- (a) Free radical formation
  - o. Increase ATP production.
  - c. Decrense intracellular Na...
  - d. Decrease intracellular Ca.
  - e. Inhibit protein synthesis.
- 25. A lesson shows non-cellular central material surrounded by large multinucleated giant cell and epitheloid cells, the most likely lesion will be:
- a. Fibrinoid necrosis.
- b. Gangrenous necrosis.
- Coagulative necrosis.
- (E) Caseous necrosis
- Liquefactive necrosis.
- 26. A man of 22-years develops marked right lower quadrant abdominal pain over the past day. Laparoscopic surgery is performed, and the appendix is swollen, erythematous, and partly covered by a yellowish exudate, it is removed, and a microscopic section shows infiltration with numerous neutrophils. The pain experienced by this patient is predominantly the result of which of the following two chemical mediators?
  - Complement C3b and IgG
  - Interleukin-1 and tumor necrosis factor
- 3. Histamine and serotonin
  - Prostaglandin and bradykinin
    - Leukotriene and HPETE.
- 27. Woman 40-years had laparoscopic surgery 3 months ago. Now she has a small 0.5 cm nodule beneath the skin at the incision site that was sutured. Which of the following cell types is most likely to be most characteristic of the inflammatory response in this situation?

0	(a) Incubation period, prodrome period, specific-illness period and convalescence period
(	e. Incubation period, specific-illness period, convalescence period and prodrome period
18,	Which of the following serological techniques is most sensitive?
	4. Agglutivation test
ť	DELISA
	c. Complement Exation test
	d. Hearnagglistination test
	d. Riedlal injecturiesdiffusion test
19.	After recovery period, the individuals who may shed pathogens while remaining
	clinically well are called:
	Chronic patients
	<ul> <li>Subclinically infected patients</li> </ul>
	c. Shedders .
	d. Chronic carriers
18	Patients having latent infection
20.	Which of the microscopic techniques is specific for diagnosis?
	a. Light microscopy
	b. Compound microscopy
	g Electron microscopy
10	Immunofluorescent microscopy
-	e. Fluorescent microscopy
21.	A 60 years old man developed shock. After recovery he was found to have foca
	neurological signs due to brain damage. The most likely changes expected to be seen
	n brain biopsy would be:
	n. Congulative necrosis
d	Liquefactive necrosis
0	c. Acute hemorrhagic change.
- 0	d. Granulomatous change.

Stratified squamous metaplasia
 Simple squamous metaplasia.

Spauce

Mucas hyperplasia.

Lacunary infract.

d. Smooth muscular hyperplasis.

- 11. A patient was hospitalized after an automobile accident, His wounds became infected and treated to tobramycin, carbenicillin, and clindamycin. Five days after antibiotic therapy initiation, patient developed severe diarrhea and enterocoli is. 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. fragella
  - 12. A 65 year old male presents with cold like symptoms for at least 3 days. He also has chills, they quin and productive cough with bloody sputum. E-loud agar reveals alpha hemolytic colonies. Quelling test is also positive. Which of the following is the most likely cause?
    - a. Corynaebacterium
    - b. Enterobacter spp.
- d c Hemophilus
  - Streptococcus pneumoniae
  - Klebsiella pneumonia
- 13. A 15 year old girl develops a sore throat, fever and carache of approximately 4 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
  - Staphylococcus aureus
    - c. Stophylococcus agalactiae
    - d. Streptococcus pneumoniae
    - e. Staphylococous epidermidis
- 14. Mr. Hamid brought a canned Tuna fish to prepare burger. After enting this burger he mot content, vocating, diarrhea with diplopia, dyaphagia, weakness of facial and respiratory natures (declarating paralysis) but no rise in temperature. Symptoms of C. botulinum food poisoning developed 36 to after ingestion of burger. These symptoms are consistent with:
- a Invasion of the gut epithelium by C, bot ilinum
  - b. Secretion of an enterotoxin
  - c. Endotexin shock
  - Ingestion of a neurotoxin causing flactic paralysis
  - e. Activation of cyclic AMP
  - 15. A young female presented with signs and symptoms of urinary tract infection. Urine culture revealed Gram positive popul, showing catalage and compulate test negative. Which test distinguishes 5-epdermidis from Staph saprophiticus?
    - a. Cutalase test
    - b. Optochin sensitivity test
- e 🥻 Coogulase test
  - d. DNase test.
  - Novobiocin sensitivity test

Parhalogy AZRA NAHEEI
3rd Year MBBS

AZRA NAHEED MEDICAL COLLEGE
3rd Year MBBS, Puthology Term Exam

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Marta: 50

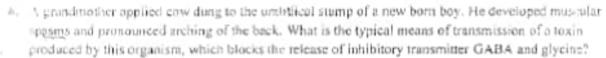
Date: 12-4-2017 Time allowed: 60 minutes

 A culture of skin lesions from a patient with pyoderma (intracting) thows numerous enhances surrounded by a zone of beta hemotysis on a blood agar plate. A Grant-stained smeat arraws grant positive exect in chains. If you found the catalase test to be negative, which one of the full lowing organisms would you most probably have isolated?

SEQ

Streptocureus pyogenes

- Stuphyloenecus aurem
- c. Staphylococcus epidermidis
- d. Streptacoectiv presumionitie
- e. Streptucuceus viridians
- 2. The Congulare test, in which the bacteria time plasma to clot, is used to distinguish which the bacteria time plasma to clot, is used to distinguish which the
  - Streptococcus pyogenes from Enterococcus faecalis
  - Streptococcus pyogenes from Staphylococcus pureus
  - Staphylococcus aureus from Staphylococcus epidermidis
    - Suphytococcus epidermidis from Neisseria meningitides.
  - e. Staphylococcus aureus from Streptococcus pneumonine
- 3. An outbreak of sepsis caused by Staphylococcus agrees has occurred in the newborn nursery. You are called upon to investigate. According to your knowledge of the normal flora, what is the most likely source of the organism?
  - a. Colon
  - O Nesc
- e Fhroat
  - d. Vagino
  - 2. Skiri
- Which of the statements about the classification of Streptococci is incorrect:
  - Preumococci (Streptococcus prezonanice) are alpha-hemolytic and can be scrotyped on the crossof their polysaccharides capsules
  - Enterococci are group D streptococci and can be obsolified by their ability to go or an order change chloride
  - Although Preumococci and the virithms streptococci are alpha-bentolytic, they can ocdifferentiated by the bile solubility test and their susceptibility to optochin
  - Streptococci pyogenes are identified by Laucefield grouping, which is based on the C carbo tydrate
    in the cell wall
  - Streptococcus agalactiae causes rheumatic fever
- 5. A 60 year old woman is hospitalized following a stroke and a high grade fever with chills. She is catheterized due to urinary incontinence and receives cephalosporins for the treatment of preumonia. Blood cultures and gram stain show gram positive cocci that were catalase negative and carabia growth in 6.5% sedium chloride. Which of the following is cost likely the cause?
  - D Entergeuccio faecalis
  - Staphylococcus aureus
  - Staphylocoecus apidermidis
  - Streptococcus pyogenes
     Viridans streptococci



- Eating home canned foods
- b. Fecal oral, travel to foreign country
- Infant given honey during first year of life
- Puncture wound or road traffic accident
- c. Respiratory, with incomplete vaccination history
- 7. Several postol workers came down with symptoms of dysphea, cyanosis, and hemoptysis and cliest pain. Chest X-ray reveals mediastinal widening. Sputum cultures are negative for all routine respiratory pathogens. Serology correctly identifies the esusative agent as bacillus anthracis. Which of the following structures possessed by the causal we agent is responsible for transmission of disease?
  - a. Elementary body
  - II. Engletissin
  - Pariplasmie space
  - Reticulate budy
  - Sports
- 8. Four to Five hours after eating <u>fried rice</u> at a restaurant, a 24 year old woman and her husband both developed nauses, vomiting, and diarries. Which one of the following organisms is the Most likely to be involved?
  - a. Clostridium perfringens
  - b. C botulinum
- Bacillus cercus
  - d. C diphtherine
  - e. L monocytogenes
- 9. A patient complains to his dentist about a draining fesion in his mouth. A gram stain of the pus shows leukocytes, and many branching gram-positive rods. Branched yellow suffer granules are observed by microscopy. Which of the following is the most likely cause of the disease?
  - Actinomycetes israelii
  - b. Nocardia
    - c. G. diphtheria
    - d. Propinnibacterium acnes
    - 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 discuse that has been under control. Which of the following is the most likely organism causing his infection?
  - si S. noreus
  - b. S. epidermidis
  - c. S. pneumonia
  - (d) Streptococcus viridians
    - e. E. faccalis

- 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. Novardia
  - h Actinamyceres israelii
    - Bacillus unthracie
  - Curynehacterium diphtheriae
    - Listeria merocytogenes
- 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
  - Gardneretta vaginatis
  - d. Lactabacilli
    - e. Ginnaeneci
- 18. A pre-moture baby boy developed meningiti; 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 himbling motility. What is the most likely on isitive agent?
  - e. Nelszeria meningitldik
  - b. Nireptococcus pneumontae
  - Listeria monocytagenes
    - d. Streptococcio agalactine
    - . Exeli
- 19. A patient developed Scarlet fever; characterized by skin rash with sandpaper like texture, strawheny tongue, pollor, and subsequent desquamation. The organism obtained on blood culture was Beta homolytic. Lancefield group A. What is the causative agent?
  - a. S. aureur
- S. pyagemen
  - e. Supidermiditis
  - d. S. pneumoniae
  - viridans graup
- 20. 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 agar and positive Nagler's reaction. Pick the causative agent:
  - a. Clastriditon difficile.
  - 5 Corynebacterium diphtheriae
  - Clostridium perfringens
    - " Clastridium battlinum
    - Box Class ordinaries

- 39. Anaphylactic shock
  - Is seen after tuberculosis
  - b. Caused by IgG.
  - c. Cannot lead to death
- d. Occurs as a result to reaction to penicillin
  - c. Takes many days to develop.
  - 40. Approximately 30-60 minutes after being bitten by a "bug", a 26-year-old man noticed a localized swelling and crythema in the affected area. The edema is most likely the result of:
    - a. Altered plasma oncotic pressure
    - h. Increased arterial hydrostatic pressure
  - Increased vascular permeability
  - d. Lymphatic obstruction
  - 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?
    - Lymphocytes and macrophages
    - In An area of caseous necrosts
- d e. Any area of congulative necrosis
- Neutrophils, lymphocytes,& plusma cells
  - e. An acute inflammatory infiltrate of PMNs
- 42. Which of the following would you expec to find in the alveoli in a patient with preummencedal pneumonia of 24 hours duration?
  - a. Serous inflammation
  - h. Fibrinous inflammation
- c. Fibrino-purulent inflammation
- D Supportative inflammation
  - e. Serofibrous inflammation
- 43. A 45-year-old woman has a lung biopsy because of a 1.0 cm tesion seen on a chest x-ray. Histologic examination reveals epithelioid macrophagus and lymphocytes around a focus of caseous necrosis. What is the best explanation for this form of necrosis?
- Granulom-tous inflaquention.
- b. Complement fixation
- c. Local histomine release
- d. PMNs releasing degradative enzymes
- Suppurative inflammation

which of the following events in acute inflammation occurs first?

Chemotaxis

Emigration Fouth arep.

Hemostasis

Margination
 Phagocytosis

- 33. Alterations in normal blood flow and endothelial injury may lead to, Sickle cell anomia b. Cardiomyopathy c. Hypersensitivity d. Thrombosis e. None of the above
- 34. A detached intravascular solid, liquid, or gausous mass that is carried by the blood to a site distant for its point of origin is known as :
  - ii. Thrombosis

6. Embolism

- Infarction
- d. Necrosis. e. Cangrene
- 35. Red Infarcts occur in:
  - u. Heart
  - b. Spleen
- c. Kidney
- Intestine
- e. None of the above
- 36. A 23 years old man undergoes surgery for the fractures of polyce after motor vehicle accident. To following day he develops dyspnea, speech clifficulties and skin rash , what do u think is the cause.
  - a. Air embolism
  - b. Amniotic fluid embolism
- Fat embolism
  - d. Paradoxical embolism
  - e. Thrombotic embolism
- 37. During autopsy of 46 years old man who died after motor vehicle accident. 1-2 are made that foun within branch of 'eft pulmonary artery. Grossly the mass is gelatinous and has a classical ail upp masse and not attached to vessel wall and lines of Zahn are absent. What is the mass actually
- Postmartem blood clot
- Post mortem hematoma.
- c. Premortem embolic hematoma
  - d. Premortem non embolic thrombus.
  - c. Premortem embous.
  - 38. Edema of the dependent parts of the body is a prominent feature of
    - a. Brain edemo
  - Congestive cardiac failure
  - c. Nephrotic syndrome
  - d. Periorbital edema
  - e. Pulmonary edema.

- 27. A 10-year-old black man with a known history of sickle cell disease presents to the standard department complaining of left upper quadrant pain suggestive of a spienic infarct. Microscopic examination of the spiece would most likely reveal
  - a. Caseous necrosis
  - Congulative necrosis
  - c Fibrinaid 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?
  - Cellular edema
  - b. Chromatin clumping
- € c. Cytoplasmic inclusions
  - d. Mitechondrial swelling
  - Rupture of cell membrane
  - 29. You are asked to review a fiver biopsy from a petient with history of alcohol abuse. Which of the following pathologic changes will most likely be present in this case.
    - Fatty change in liver oplis
    - Hydropic change of hepetocytes
    - c. Karyotysis in myocardial cells
    - d. Glycogen deposition in hepatocytes nuc ei
    - e. Iipofuschin deposition
  - 30. The action of putrefactive factoria on necrotic tissue results in
    - ic Congulation
    - b. Inforction
    - Gangrene
    - d Emboliom
    - Cartestion
  - 31. Descriptic calculation
    - a. Occurs in normal tissues.
    - b. Is associated with hypercalcaemia
    - c. Is seen in vitamin D related disease
- d Occurs in atheromatous disease
  - c. 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
- it is limited to cells capable of mitatic division
  - d. It is rarely physiologic
  - establete removal of excess hormone triggers will slow progression but not reverse hype plastic stanger