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# THE SUPERIOR COLLEGE, LAHORE

## 4th PROFESSIONAL MBBS **ANNUAL EXAMINATION 2019**

### **PATHOLOGY**

SEO's)

F15-099

Roll No.

Total Marks: 75

Time Allowed: 2 hours

#### Instructions

- The SEQ's part is to be submitted within 2 hours, Extra time will not be given.
- Neat Hand Writing use of margin and marker for headlines will increase the presentation of your paper. 2.
- Do not write your name or disclose your identity in anyway.

### Attempt All Questions

1- A 65 years old diabetic, hypertensive male presented to emergency department with breathlessness and crushing stabbing pain over chest for 3 hrs. His coronary vessel revealed raised lesion on the surface with narrowing of the lumen.

Firefly describe the steps involved in the pathogenesis of atherosclerosis keeping in Anewysm 4 Rupture

mind the role of factors mentioned above in scenario (3)

Thrombus Stenosis

Write down major complications of this process (2)

Q2- A 13 years old African male presented with severe anemia, non healing ulcers, recu chest and abdominal pain. Peripheral blood smear reveals crescent shaped RBCs.

· Hemorrhage

What is the most likely diagnosis? Write down pathogenesis of likely sign and symptoms

(2.5) Siekee cell Anamia -

Entranascular Hemalysis of

Classify hemolytic anemias. (1.5)

sickle cells Point mitation (glutamu and replaced by natine)

Give Lab diagnosis of Thalassemia (1)'

Q3A 35 years old male presented with fever, malaise, weight loss and cervical like structures lymphadenopathy. The excised lymph node reveals mixed population of cells comprising neutrophils, eosinophils, plasma cells and lymphocytes. Bi nucleate owl eye cells and mono nucleate cells are also seen.

Hadgkin lymphoma a- What is the most likely diagnosis.(1)

b- What are its different morphological types (3)

c- What is the most likely translocation of Burkitts lymphoma(1)

Q4- A 43 year old male presents to medical OPD complaining of persistent cough, which produces copious sputum. He is a heavy smoker and has suffered such coughs for several years. His physical examination reveals diffuse wheezing and crackles. On spirometery he has decreased FEV1/FVC ratio. He is strongly recommend to stop smoking,

P.T.O

hat is your diagnosis?(1) b) Define obstructive and restrictive lung diseases. (2) Name two paraneoplastic syndromes associated with small cell carcinoma lung (2) Q5- A 58 year old male is suffering from upper GI discomfort and pain. He is suffering from H pylori associated gastritis. hat are the possible diseases associated with H pylori infection (2.5) Give pathogenesis of Barretts esophagitis (2.5) chro mosemul opmalities, mutation of TP33, COXNZA alleli los and hypermethy lation. Amply cation Dudenal ulcer O6- A 55 years female presented in OPD clinic with long standing history of altered bowel habits, abdominal pain and blood in stools. Her colonoscopy shows pseudopolyps and ulcerated mucosa without intervening normal mucosa. a) What will be your diagnosis? (0.5) Ultrative b) What is the most likely complication of this disease (0.5) 7 ome Describe role of APC in formation of colorectal carcinoma(4) Write down causes of Nephritic & Nephrotic syndrome. (2) Describe the Light microscopic, Electron microscopic and Immunofluoroscence findings in case of minimal change disease. (3) Q8- An 80 year old man comes with complaint of hesitancy and nocturia for past 1 yr. On digital rectal examination he has irregular hard prostate. a) What will be your diagnosis? (0.5) Describe briefly Gleason grading system? (3) unglime wit off What is the Role of PSA in prostate pathology (1.5) Q9- A 45 years old female patient develops a peanut sized nodule in an old midline laparotomy scar, which becomes painful during menstrual period. The excised nodule consists of normal looking endometrial tissue with glands and stroma. Briefly discuss the theories responsible for pathogenesis of such lesions. (1.5) Classify ovarian (umors. (1.5) What are the differences between complete and partial mole. (2) Q10-A 40 years old female with a family history of breast carcinoma went for mammographic screening which showed linear, branching pattern of calcification but no density. On histological examination solid sheets of pleomorphic cells with high grade nuclei and central areas of necrosis is seen. a) What is the diagnosis? (0.5) b) Briefly discuss the prognostic and predictive factors of breast carcinoma? (2.5) c) Write short note on Paget's disease of nipple. (1)

Q11- A 38 year old male patient presents with malaise, fever and jaundice. His serological tests are positive for HBsAg. Mapattis B a. Give graphic representation of serological markers in Acute and chronic infection (02)2 b. What are precursor lesions of hepatocellular carcinoma(2) What serum marker is advised for diagnosis of HCC (1) & Feto Protien Q12- A 37 year old school teacher went to her general practitioner with complaints of tiredness, weight gain and a feeling of discomfort in her neck. On clinical examination she had goiter and her laboratory tests revealed a raised serum TSH and low free T3 & T4 levels. Thyroid peroxides (TPO) antibodies were present in high concentrations. What is the most likely diagnosis? Give the mechanism of injury in this case. (3) Hashumoto fly Give morphological features of papillary carcinoma of thyroid(2) 2132- Enumerate the bone forming tumors. Write down gross and microscopic appearance of steosarcoma. (2.5) b. Compare & contrast the morphology of Osteoarthritis & Rheumatoid arthritis. (2.5) Q14a-Give the CSF findings in a tabulated from of the followings Addie pyogenic meningitis, Viral meningitis and Tuberculous meningitis. (2.5) Briefly discuss the parameters used in laboratory to evaluate renal functional status. (2.5)15. Classify thyroid tumors (2) 6) Give microscopic picture of medullary carcinoma of thyroid (3) pindlecells -cell hyperplasia TB is serious ch. Pulmonary coms follicles Cause: mycobarterum TB. myloid Deposits (Steps of Injection: s of medulary 1) Entrty into mairophage 2) Replication norrhage crey to tom 3) THI mediated moverophoge activation 3) Granhimatous Inflomation

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