PAPER CODE B KHYBER MEDICAL UNIVERSITY, PESHAWAR PAPER CODE Exam Roll No.: THIRD PROFESSIONAL MBBS ANNUAL EXAMINATION 2023 BLOCK H (MULTISYSTEM I, BLOOD II & MSK-II) В Name: Max. Marks: 120 Note: * Attempt all questions. Select the best answer from given choices. Handover response sheet along with question paper after attempting Time Allowed: 120 min. Use BLUE / BLACK ink only. Do not use RED Color. Filling of more than one option shall not be considered. Possession of mobile phone and other electronic accessories are strictly prohibited A 30-year-old male authmatic patient presented to the emergency department. On examination, 8P was 125/R5 with bilateral wheeze. He was treated with albuterol. Which of the following adverse effects is not associated with the use of \$2-adrenergic receptor agonists? d. Increase renin secretion c. Hypokalemia e. Tachycardia a. Hyperkalemia b. Hypoglycemia A trainee medical officer considered prescribing a beta blocker to a 53-year-old patient. What pre-existing condition (comorbidity) would most likely contraindicate the safe use of this drug? b. Essential hypertension c. Hyperthyroidism e. Peripheral vascular disease d. Hypertrophic obstructive cardiomyopathy 3. A 65-year-old patient presented to the ER with cardiogenic shock. He was treated with IV infusion of Dobutamine. By what adrenergic receptor-mediated action, do therapeutic doses of Dopamine mainly raise cardiac output? a. a adrenergic agonist b. a adrenergic antagonist d. B1 adrenergic antagonist c. B1 adrenergic agonist e. Mixed a and B agonist 4. A 50-year-old man with coronary artery disease presented to OPD with a complaint of difficulty in starting to urinate. On examination, his blood pressure was 100/80mmHg and had an enlarged prostate. Which of the following drugs would be useful in treating his symptoms? b. Phentolamine d. Tamsulosin c. Prazosine 5. A patient with acute lymphocytic leukemia is responding well to Mercaptopurine therapy. However when Allopurinol is added to the regimen to decrease uric acid production, the patient develops toxic symptoms. Which one of the following is the most likely reason of development of toxicity? a. Allopurinol competes with Mercaptopurine for renal excretion b. Allopurinol decreases the enterohepatic recycling of Mercaptopurine c. Allopurinol decreases the plasma protein binding of Mercaptopurine e. Allopurinol inhibits the metabolism of Mercaptopurine d. Allopurinol has same toxic effects as Mercaptopurine 6. A patient is given epinephrine for some condition. Which one of its following effects will most likely be blocked by phentolamine but not by metoprolol? c. Increase in cAMP in fatty tissue b. Contraction of radial muscles of iris a. Bronchodilation 7. Neostigmine is preferred over physostigmine for the treatment of myasthenia gravis because? e. Tachycardia b. It causes irreversible binding to enzyme cholinesterase. d. It has direct agonistic action on receptors at muscle end plate. a. It is better absorbed orally. c. It penetrates blood brain barrier rapidly. e. None of the above 8. Which of the following best describes the mechanism of action of scopolamine? b. Irreversible antagonist at muscarinic receptors a. Irreversible antagonist at nicotinic receptors d. Reversible antagonist at muscarinic receptors c. Physiologic antagonist at muscarinic receptors e. Reversible antagonist at nicotinic receptors 9. A 30 years old man has been treated with several autonomic drugs for 4 weeks. He is now admitted with signs of toxicity. Which of the following would distinguish between overdose of ganglion vs muscarinic blocker? d. Postural hypotension e. Tachycardia c. Mydriasis b. Dry mouth, constipation 10. A Hypertensive patient was accidentally given an α₂ agonist instead of an α1 blocker. Which of the following is correct in this a. α_2 agonists can increase the release of norepinephrine from sympathetic nerve terminals c. α_{2} agonists can increase blood pressure in this patient b. α_2 agonists can reduce blood pressure in this patient d. α2 agonists will not affect blood pressure in this patient e. None of the above 11. In the treatment of asthma, different categories of drugs are used having different mechanisms of action. In the treatment of a 55 year old asthmatic patient with comorbid angina pectoris, identify the safest muscarinic antagonist that which is a

competitive antagonist and relatively safe in ischemic heart disease? e. Ipratropium

a. Albuterol

c. Disodium cromogycate

d. Atropine

12. Beta adrenergic blocker having cardio selectivity. Intrinsic sympathomimetic activity and membrane stabilizing property is.

c. Carvedilol

d. Metoprolol

e. Acebutalol

13. A 32-year-old woman with Crohn's disease was treated with Infliximab, as the conventional therapy was not providing adequate relief. What is the primary mechanism of action of Infliximab? b. Inhibition of tumor necrosis factor-alpha

a. Enhancement of B-cell activation

c. Inhibition of folic acid synthesis

d. Stimulation of natural killer cells

e. Suppression of T-cell proliferation

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A patient has an episode of hematemesis for which he is prescribed a drug Tranexamic acid. Which sale	
options describes its mechanism of action? a. Activates the glycoprotein receptors on platelets b. Crosslinks fibrin within a clot.	
	in III
15. Which of the following has longest duration of action?	
in Groundse D. Anistenlase & Especialism	
16. A 48-year-old man presented to the EB with a complete of	
phagocytes. Which of the following drugs would be most appropriate to treat the patient's pain? a. Aliopurinol b. Aspirin a February of the following drugs would be most appropriate to treat the patient's pain?	
a. Allopurinol b. Aspirin c. Febuxostat d. Indomethacin e. Methotrexate	
17. A 48-year-old woman underwent heart surgery for the street and	Magazia.
patient exhibited transient muscle fasciculation that processed to a soon after the administration of the drug, the	ental, le
A PARAMETER STATE OF THE PARAMETER STATE OF T	
a. Cisatracurium b. Dantrolene c. Succinylcholine d. Tubocurarine e. Veruscolum	
The state of the s	
mucosa and the floor of the mouth. Considering that these are drug induced, which one of the following DMARDs is most likely responsible for these symptoms?	labial
likely responsible for these symptoms?	st
a Auranotin h Chia	
19. A woman deemed at high risk of postmenopausal osteoporosis is started on alendronate. What is this drug's main mechanical management of action? a. Activates vitamin D and so facilitate.	
of action? What is this drug's main mech	anires
	GHISHI
b. Contains lots of calcium, which supplements dietary calcium intake d. Provides supplemental phosphate which is the containing the containi	
d. Provides supplemental phosphate, which indirectly elevates plasma calcium c. Directly forms hydroxyapatite crystals in bo	
d. Provides supplemental phosphate, which indirectly elevates plasma calcium e. Reduces the number and activity of osteoclasts in bone 20. Which of the following is	ne
20. Which of the following is constant in bone	
20. Which of the following is correct regarding the use of 'Isotretinoin' in the treatment of Acne Vulgaris? h Isotretinoin acts primarily on the membrane receptors	
a. Isotretinoin acts primarily on the membrane receptors b. Isotretinoin is contrained by the membrane receptors	
c. Isotretinoin is given intravenously in the treatment of Acne d. If given in high doses, isotretical.	
e. Isotretinoin activates prostaglandin E2 and collagenase, which causes the adverse effect of inflammation 21. Scab or crust of abrasion is formed and appears brown. What is the agree of the inflammation	
of the first of the form of the form of the form of the first of the f	
of Detween 12-24 hours by Between 88 and the age of the injury?	
22. A body was found in a dry desert opigers of the between 05-07 days d. Between 04-05 days e. Between 03-07	
22. A body was found in a dry desert environment. Upon examination, the forensic expert noticed mummification and desiccation of the body, with minimal insect activity. What environmental factor is most likely responsible for this condition. 23. In case of a service of the body of	eek
23. In case of custodial deaths, the forensic examiner should carefully look for	on?
Blunt trauma	Dil
a. Blunt trauma b. Concealed blunt trauma c. Concealed punctured wounds d. Self-inflicted wo	2204
	unds
A. The condition in which the body temperature fails to rise in the first two hours after death is:	
5. During a forensic autopsy of an unidentified deceased possess the f	
wound on the victim's forearm. The wound is characterized by tissue bridging and extensive tissue damage. Based on the postmortem findings, what term best describes this type of injury?	
postmortem findings, what term best describes this type of injury?	5-
Abrasions h Incorpline	
	- 15
6. Police has brought a middle aged strong built man's dead body for autopsy. On examination doctor has found multiple	
which test can help him differentially, to make final decision which test can help him differentially	
non post mortem stanning.	
Diaphanous test b. Gettler's test c. Icard test d. Incision test e. Stas-Otto test	
7. A person was hit with a baseball bat in a fight with his neighbors. His parents went to police to file an FIR (First Information	
Report). The police brought the victim to the authorized Medical Officer. The on-duty doctor noted that he had a deep	on
muscular injury that appeared blue is color with a little weared blue is color wearen on the on-duty doctor noted that he had a deep	
muscular injury that appeared blue in color with a slight rupture of skin. The victim was well oriented in time, place and	
person. As per Qisas and Diyat Act 1997, what opinion will be framed in respect of this victim?	
Jurh Ghayr Jaifah Badiah b. Jurh Ghayr Jaifah Damiyah c. Jurh Ghayr Jaifah Hashimah	
Jurh Ghayr Jaifah Mutalahimah e. Jurh Jaifah	
3. A young boy accidently fell into a freshwater stream near his home. He was rescued in 5-6 min but unfortunately could	do't did
not survive in freehoust and an installation in the man rescued in 5-6 min but unfortunately country	dir t did
not survive. In freshwater drowning, death occurs within 4-5 mins of submersion due to ventricular fibrillation, which	ot
following best explains the mechanism of such a death?	
Deoxy HB 75% b. Hem dilution, overloading of heart & hemolysis resulting in release of potassium	
nemoancartration of blood causes by ormotic assessment of the state of the stat	
e. Total asphyxia due to fresh water	

a semination, the	re
PAPER CODE B PAPER CODE B A 50 years old male patient was brought to emergency unit with complaints of bleeding from nose. On examination, the wave profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse bruites and bleeding from nose. On examination, the same profuse by snake in the fields before developing the symptomare profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse bruites on the skin. The patient admits of being bitten by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields before developing the symptomare profuse by snake in the fields by	ims.
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A 50 years old male patient was brought to emergency unit with complaints of bleeding from the symptom of male patient was brought to emergency unit with complaints of bleeding from the fields before developing the symptom profuse brutters on the skin. The patient admits of being bitten by snake in the fields before developing the and Bleeding Treatment brutters on the skin. The patient admits of being bitten by snake in the fields before developing the symptoms and blueding from the same and bleeding from the symptoms of bleeding from the symptoms and bleeding from the symptoms of bleeding from the symptoms	
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The impaign depredation products were an analysis of the control o	
Laboration on the skin. The patient admits of being bitten by shad a profuse brutten on the skin. The patient admits of being bitten by shad a profuse brutten on the skin. The patient admits of being bitten by shad a probable diagnosis in this case? Laboratory investigations showed prolonged Prothrombin Time, Activated Partial Thromboplastin Time and this case? Laboratory investigations showed prolonged Prothrombin Time, Activated Partial Thromboplastin It is a GET deficiency anemia. The contraction of the contraction	le and
e. Paroxysmal nocturnal network. The child had slight frontal bossing. Was to make the shiften to shift to the shift t	intain
Bs. A 6 months old shill presented with severe anemis and famous and the shill was on regular blood transformation level was 6 em/dl, and the shill was on regular blood transformation.	
e. Paroxyxmai noctorne. 8. As months old child presented with severe anemia and failure to thrive. The child had slight frontal bossing. 8. As months old child presented with severe anemia and failure to thrive. The child was on regular blood transfusions to ma had pulpable fluer and splem. His Hemoglobin level was 6 gm/dl, and the child was on regular blood transfusions to ma had pulpable fluer and splem. His Hemoglobin level was 6 gm/dl, and the child condition? 8. As months old child presented with severe anemia and failure to thrive. The child had slight frontal bossing. 8. As months old child presented with severe anemia and failure to thrive. The child had slight frontal bossing. 8. As months old child presented with severe anemia and failure to thrive. The child had slight frontal bossing. 8. As months old child presented with severe anemia and failure to thrive. The child was on regular blood transfusions to ma had pulpable fluer and splem. His Hemoglobin level was 6 gm/dl, and the child was on regular blood transfusions to ma had pulpable fluer and splem. His Hemoglobin level was 6 gm/dl, and the child condition? 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure to thrive. 8. As months old child presented with severe anemia and failure	ajór
b took stafficiency animile c. Leukemia d. Megania painful joint. Patient	Was:
a Childhood MDS B. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS B. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS B. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS B. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS B. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS B. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area painful joint. Patient a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area patient a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area patient a. Childhood MDS b. Iron deficiency anemia c. Leukemia d. Megalobiastic area patient a. Childhood MDS b. Iron deficiency anemia a. Childhood MDS b. Iron deficiency anemia b. Iron deficiency anemia c. Leukemia d. Megalobiastic area patient a. Childhood MDS b. Iron deficiency anemia a. Childhood MD	3545
all agranted at a case of this Editorios and	
and what is the most likely joint an ectal h. Neisseria gonorrhea affecting multiple joints	
a Build Signification of a street of the str	
C STABILITY OF ANY LINGUISMAN AND AND AND AND AND AND AND AND AND A	
e. Polymicrobial affecting any joint 88. A 7-years-old male with proximal muscle weakness and pseudo-hypertrophic calf muscles was diagnosed as a case of	
Duchenne muscular dystrophy. Which enzyme is found mostly deficient in the patient?	
Adenosine hinhosphate Dystrophin kinase Adenosine hinhosphate Dystrophin kinase Carbonic anhydrase Creatinine phosphokinase	
a. receive a springer and a springer	
d. Dystrophin kinase e. Lactate denydrogenase 89. A 9-years-old male presented with muscle weakness. Muscle biopsy reveals variation in myofiber size, fatty replacement	nt and
endomysial fibrosis. Which is the most common protein whose production is affected in Duchene muscular dystrophy	7
a Actin b. Dystrophin c. Leucovorin d. Myosin e. Myotropin	
90. A 30-years-old male patient presented with fever, chills, severe throbbing pain over the knee, and is reluctant to use a	ffected
leg. On examination there is localized area of tenderness. WBC count was significantly raised. Radiograph shows large	
fragment of necrotic cortex is visible deep within the draining sinus, with a collar of reactive bone around the draining	
in the midshaft of tibia. This Reactive bone is called?	
a. Bony spur b. Involucrum c. Osteophyte d. Osteosarcoma e. Sequestrum	
91. The precursors to melanoma are generally considered to be related to nevi of different types. Which of the following is	sthe
precursor lesion to malignant nevi?	
a. Dysplastic nevi b. Eczematous dermatitis c. Freckle d. Nevocellular nevi e. Vitiligo	
92. A skin biopsy from a 20 years old man was submitted for histopathological examination. Which of the following change	ts
would be more consistent with the diagnosis of acute spongiotic dermatitis?	
a. Acanthosis b. Epidermotropism c. Intra-epidermal edema d. Papillomatosis e. Parakeratosis	
93. As part of a third-year elective, a medical student rotating through a medical genetics service is assigned to counsel a	patient.
who is concerned about a family history of hypertension. To be properly prepared for the counselling session, the stu	dent
reviews course notes on modes of inheritance of various disorders. Knowledge of which of the following modes of in is most pertinent to the upcoming discussion with the patient?	heritance
	-
a. Autosomal dominant b. Autosomal recessive c. Multi-factorial d. X-Linked dominant e. X-linked rec 94. An 88-year-old woman with marked kyphosis and loss of height that had been gradually progressive over many year	essive
experiences the sudden onset of acute back pain following a sudden change in position. Radiographic examination	
demonstrates generalized osteopenia and a fracture of a lower thoracic vertebra. Which of the following is an associated as a second se	To Million Co.
characteristic of the patient's generalized bone disorder?	ation or
a. Postmenopausal state and estrogen deficiency b. Physical inactivity c. Hypothyroidism	
d. Excessive calcium intake e. Increased serum calcium and phosphate levels	
95. A small sliver of wood becomes embedded in the finger of a 25-year-old man. He does not remove it, and over the n	
the area around the sliver becomes red, swollen, and tender. Neutrophils migrate into the injured tissue. Expression	ext a days
of the following substances on endothelial cells is most instrumental in promoting this inflammatory reaction?	Of Mulcu
a. E-selectin & P-selectin b. Hageman factor c. Interferon gamma d. Lysozyme e. Prostacyclii	
96. A 42 years old woman presents with signs of Jaundice and hepatic failure. Physical examination find that she has un	
choreiform movements of the arms, and a rust-colored ring is seen at the periphery of both corneas. Laboratory ex	
finds increased serum and urine levels of copper with decreased level of serum ceruloplasmin. Which of the follow	ing is the
most likely diagnosis?	mg arme
a. Alpha 1 antitrypsin deficiency b. Budd-Chiari Syndrome c. Primary Biliary Cirrhosis	
d. Whippie's disease e. Wilson disease	
TO CONTRACT TO CON	a abassasal
97. A 62-year-old man has had several episodes of hematuria in the past week. On physical examination, there are no	a abnormal
findings. A urinalysis shows 4+ hematuria, and cytologic examination of the urine shows that atypical cells are provided to provide the provided the provided the provided to the provided	
urologist performs a cystoscopy and observes a 4-cm sessile mass with a nodular, ulcerated surface in the dome	of the
bladder. Which of the following terms best describes this lesion? a. Papilloma b. Carcinoma c. Adenoma d. Sarsoma e. Fibroma	
a. Papilloma b. Carcinoma c. Adenoma d. Sarcoma e. Fibroma 98. Which of the following ovarian tumors are of germ cell origin?	
	C and D

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99. Cervical biopsy of a 30-year-old woman reveals invasive tumor containing areas of squamous epithelium, with pearls of Cervical biopsy of a 30-year-oil woman presence of human papillomavirus type 16 (HPV-16) DNA within the tumor cells. keratin. In any hypriodestion with the state of the following molecular abnormalities in this turnor is most likely related to infection with HPV-167 b. Increased expression of laminin receptor genes a. Trapping of the RAS protein in a GTP-bound state d. Functional inactivation of the RB1 protein c. Inability to repair DNA damage e. Increased expression of epidermal growth factor receptor 100.A 50-year-old woman is diagnosed with well-differentiated ductal carcinoma of the breast. There is no family history of cancer. Which of the following molecular abnormalities is most likely to be found in this setting? b. Deletion of one p53 gene copy c. Amplification of the ERBB2 (HER2) gene a. Inactivation of one BRCA1 gene copy e. Fusion of BCR and C-ABL genes d. Deletion of an RB gene locus 101.A 55-year-old male, a chronic smoker, develops a productive cough with hemoptysis, anorexia and significant weight loss. Subsequent investigations reveal a squamous cell carcinoma of the lung. Laboratory investigations show elevated serum calcium levels. This phenomenon is best explained by which of the following? b. Ectopic production of ADH c. Ectopic production of PTH-related protein a. Ectopic production of ACTH e. Ectopic production of Insulin or insulin-like substance d. Ectopic production of Erythropoletin 102. Conditions show anticipation in paternal transmission is: d. Marfan syndrome c. Huntington disease a. Cystic fibrosis b. Fragile X syndrome 103. An otherwise healthy 44-year-old man with no prior medical history has had increasing back pain and right hip pain for the past decade. The pain is worse at the end of the day. On physical examination he has bony enlargement of the distall interphalangeal joints. A radiograph of the spine reveals the presence of prominent osteophytes involving the vertebral bodies. There is sclerosis with narrowing of the joint space at the right acetabulum seen on a radiograph of the pelvis. Which of the following diseases is he most likely to have? e. Osteomyelitis d. Pseudogout b. Rheumatoid arthritis c. Osteoarthritis 104. An 11-year-old boy has pain in his left leg that has persisted for 3 weeks. On physical examination his temperature is 37.9°C. A radiograph of the leg reveals a mass in the diaphyseal region of the left femur with overlying cortical erosion and soft tissue extension. A bone biopsy is performed and the lesion on microscopic examination shows numerous small round blue cells. Karyotypic analysis of these cells shows t(11;22). Which of the following neoplasms is he most likely to have? d. Chondroblastoma c. Neuroblastoma b. Medulloblastoma 105. Disabling joint disease, nodular lesions in the lung associated with dust borne diseases, xerostomia, and splenomegaly characterize a rheumatologic disease with which one of the following laboratory abnormalities? c. IgM antibodies against IgG b. Anti-centromere antibodies a. Positive serum antinuclear antibody with a rim pattern e. Anti-ribonucleoprotein antibodies d. Positive band test on a skin biopsy 106.A 17 years boy presented with pain and swelling about left knee for the past 1 month and was severe enough to cause him limp. Radiographs of the knee demonstrated a lifting of the periosteum and a speculated sunburst pattern in distal femur. Which of the following is most likely diagnosis? e. Osteosarcoma d. Knee sprain c. Ewing sarcoma b. Chondrosarcoma a. Giant cell tumor 107.CD4 + T cells that respond to intracellular pathogens by recruiting and activating phagocytic cells are termed as: e. Th2 cells d. Th1 cells. b. Cytotoxic T lymphocytes. c. Tho cells. a. Antigen-presenting cells. 108.A 28-year-old woman is found to have pulmonary sarcoidosis. The granulomas contain large numbers of T helper (TH1) ce These cells are known to secrete which of the following substances? b. Elastase and lysyl-hydroxylase c. Interleukin-2 (IL-2) and interferon-y a. Complement component C5A e. Leukotriene C4 d. IL-8 and TGF-B 109. Within minutes of a bee sting, a 23-year-old woman develops generalized pruritus and hyperemia of the skin, followed sh by swelling of the face and eyelids, dyspnea, and laryngeal edema. This reaction is mediated by; d. IgE antibodies. b. Cytotoxic T cells. c. IgA antibodies. a. Antigen-antibody complexes. 110.A 20-year-old woman presents with malar rash, arthralgias, low-grade fever, and high titer antibodies to double-strande DNA and to the Sm (Smith) antigen. Which of the following forms of hypersensitivity is the primary mechanism of the abnormalities found in this disorder? b. Type II (antibody-mediated or cytotoxic) hypersensitivity a. Type I (immediate or anaphylactic) hypersensitivity c. Type III (immune complex-mediated disorders) hypersensitivity d. Type IV (cell-mediated) hypersensitivity 111.A febrile 23 year old college coed presents with fatigue and difficulty with swallowing. Physical exam reveals exudative tonsillitis, palatal petechia, cervical lymphadenopathy and tender hepatosplenomegaly. A CBC reveals a mild microcyt anemia, lymphocytic leukocytosis with 20% of the atypical lymphocytes, and a mild thrombocytopenia. You would exp patient to have? d. Heterophile antibodies b. A normal serum ferritin c. An elevated total bilirubin a. A low TIBC e. Normal serum AST and ALT titers 112.20-year-old woman presents with depigmented white patches of skin on the face, neck, and hands. She has a past hist Graves disease. Which of the following is the most likely diagnosis? e. Verruca vulgaris (common wart a. Ocular albinism b. Oculocutaneous albinism d. Freckle c. Vitiligo

6.V A 9 months and home were	ER CODE B	
A 9 months old boy presented with pallor for the last 3 me sister died of some blood disorder at the age of 9 years. O You suspect him as case of Thalassemia. Which of the follow	onths. He is a product of consangui	neous marriage and his elder
You suspect him as case of Thalassemia. Which of the follo	owing investigation	and has hepato-splenomegaly.
a. CBC b. Hb Electrophoresis c. S. Ferritin 69. A flat discolouration on skin is called:	d. Bone Marrow Examination	king the definitive diagnosis? e. Osmotic Fragility Test.
a Macule b. Plaque c. Boil d. Panul		
70. A 25 year old presents with recurrent episodes of flexura	eczema contact urticacia securi	and able to a
accommendation and constitutes open texting and tolous. It	le is suffering from?	ent skin infections and severe
a. Seborrheic dermatitis b. Atopic dermatitis	c. Airborne contact derr	matitis
d. Nummular dermatitis e. Eczema		
71. In addition to a focus of invasive carcinoma, the patholog	gist identifies dysplastic squamou	s cells occupying the entire
thickness of the cervical epithelium, with no evidence of intact. Which of the following terms best describes this of the cervical epithelium, with no evidence of intact.	epithelial maturation. The basal r	membrane in these areas appears
a. Squamous cell carcinoma b. Carcinoma in situ		
72. Which of the following cytochemical stains distinguishes	c. Metaplasia d. Hyperplasia	e. Acanthosis
o resolute phosphalase D. Myplopstorpen e Music	The same of the sa	THE RESERVE AND ADDRESS OF
73. Conventional (hyaline/myxold), Clear cell, Dedifferentia malignant tumors?	loperoxidase d. PAS	e. Sudan Black
malignant tumors?	ted and Mesenchymal are subtyp	es of which of the following
a. Fibrosarcoma b. Chondrosarcoma c Ostanoma		
74. Which of the following terms is used for hyperplasia of	a d. Malignant mesotheliom:	a e. Rhabdomyosarcoma
		e. Parakeratosis
75. Which of the following caspases act as executor caspas a. Caspase 3,6 b. Caspase 8.9	es in the process of apoptosis?	e. Falakeratosis
C Cashase 0'2	Date 2 7	,8 e. Caspase 3,9
76. A 50-year-old lady has joint pain with morning stiffness feature differentiates Osteoaethylis from Physical States	s. She was diagnosed a case of Os	teoarthritis. Which of the following
- Pana and Careour thinks from kneumatoid	arthritis on biopsy of the lesion?	
e. Swollen inflamed synovial membrane	ammation d. Osteophy	ytes
77. A 42 year old diabetic and hypertensive male came to	A and E days a series	and the desired states and the state
big toe. The pains started suddenly and awaken him u	a from class. He save a history	earning due to excruciating pain in right
he ate lots of sushi and steak. What is your most likely	diamosis?	or accending a party last night in which
a. Options list Septic arthritis b. Psoriatic arthritis		outy arthritis e. Chronic gout
78. What kind of anemia is the result of disturbance in int		
a. Aplastic anemia. b. Hemolytic anemia. c. Iro		
e. Vitamin B12 deficiency anemia		
79. Which of the following investigations should be done	immediately done to best conf	firm a non matched blood transfusion
reaction?		
a. Antibody in donor . b. Antibody in patient serum. c.	. Allergic reaction. d. Direct	comb's test. e. Indirect comb's test
80. A 25-year-old woman came to OPD with a lump in he	er left breast. She has no family	history of cancer and is taking low-dose
oral contraceptives. On examination, she has a 2-cm	rubbery, round, freely mobile i	mass. An ultrasound is performed showing
a solid mass. Core needle biopsy is reported as a fibr	oadenoma. Which of the follow	wing characteristics was most likely
observed in her blopsy report?		
a. Anaplastic cells b. Cellular hyperplasia with gla	andular architecture	c. High nucleus to cytoplasm ratio
d. High fraction of cells with mitotic spindles		e. Loss of glandular architecture
81. Most B cell responses to an antigen require the inte	raction of B cells with T belner	cells (thumus dependent activation) Which
one of the following sets of cells can present antige	n to the helper T colle?	cens (divinus-dependent activation). Which
HOUSE NO. 10 HOUSE HOUS	hils and plasma cells	crophages and eosinophils
93 A 43 years and cytotoxic r cens e. Neutropi		a una arcon.
82. A 42-year-old auto mechanic had been diagnosed v	with end-stage renal disease. H	lis twin brother was HLA identical at all MH0
loci and volunteers to donate a kidney to his broth	er. Which of the following terr	ns best describes the type of graft transplan
in this situation?		
a. Allograft b. Autograft c. Heterograft	d. Isograft	e. Xenograft
83. Sequential activation of complement components	occurs via one of three pathw	vays. Which one of the following nothwayle
serves as first line of defense against microorganis	m and participates in the inn	ete arm of the immune recess?
a. Alternative Pathway b. Alternative pathway and	Mannan binding lectin pathw	ate arm of the immune responser
c. Alternative pathway and classical pathway		
84 A 58 year old female presented with sempleters	d. Classical pathway	e. Mannan binding lectin pathway
84. A 58 year old female presented with complaints of	n ratigue and bruises. Physical	examination revealed multiple bruises all
her body in different regions. CBC report revealed	abnormal granularity of plate	elets and granulocytes while red cells appear
to be dimorphic. Bone marrow revealed 20% ring	ged sideroblasts with dysplasti	c changes in RBC & WBC precursors, No
cytogenetic abnormalities were found. Based on	these findings, what can be th	ne possible diagnosis?

b. Chronic lymphocytic leukemia

d. Myeloproliferative syndrome e. Myelodysplastic syndrome

a. Acute leukemia

c. Chronic Myeloid leukemia

52. After identifying the importan	t variables & establishing the log	ical resourcing the	- discussion	
			roup discussion	etudy
a. To Conduct Survey's o. To use experiment in investigati S3. A researcher aims to investigati design would be most suitable.	p. To generate hypothesis	a medical of	breast cancer later in	life. What study
S3. A researcher aims to investiga	te if women who breastfeed exp	erience a reduced risk of		
THE PROPERTY OF THE PROPERTY O	b. Cohort study design		and used the tre	stment, and the
6. Experimental study design	ent to have chemotherapy for hi	er lung cancer, but the pa	ethical principle did t	he doctor
doctor respected the patient's	ent to have chemotherapy for his wishes and subsequently discha-	arged the patient. Which		
CHOCKSTERE	THE RESIDENCE	d. Non -maleficence	e. Justice	
Autonomy b. Benefi The role of peer-reviewed journ	to a finalization of	search is:		
a. Promoting unpublished research	b. Pr	oviding a platform for pe	ersonal opinions	
r. Evaluating and ensuring the quali		blishing articles without	rigorous review	
- Passalue on concationalism rathe	er than scientific rigor			and the second
56. Department of health, KP start	ed surveillance program for Der	ngue hemorrhagic fever	in the province. Data	was collected
from the clinical record of OPD	& Medical wards in a hospital.	The most suitable type of	of this Data is;	
a. Cooked data b. Prima				
 A researcher conducted resear which section of research plan 		students. He will descri	be research participa	nts in detail in
a. Introduction b. Ratio		d. Data analysis	e. Discussion	
58. A 30 years old lady presented	with two months history of fev	er and lethargy. She is pa	ale on examination an	d has
splenomegaly. She has investig	gations requested and peripher	al blood smear is to han	d. It shows Increased	number of
neutrophils, band cells, myelo	cytes, basophils, eosinophils an	d platelets. What is the	most likely diagnosis?	
a. Acute lymphoblastic leukemia	b. Acute myeloid leukemia	c. Chronic myelocy	tic leukemia	
d. Chronic lymphocytic leukemia	e. Hairy cell leukemia			
59. A 40 years old male patient p	resented with weakness which	tends to be more in the	evening and had bilate	eral ptosis on
examination, the best diagno	stic test for his condition would	be		
	re conduction studies c. :	Single fiber EMG d	i. Myoglobin e. Mi	RI orbit
 25 years old female presente Anaemic. The most likely dia 	d with joint pain and excessive	hair fall. On examination	she had a malar rash a	and seemed to be
			Vos.	
61. A 40 years old male came to	emic lupus erythromatosis c. outpatient department with co	mplaints of burning sons	d. Dermatomyositis	e. Polymyositis
also complaints of multiple jo	oints pain for last 2 years for wi	th he was taking pain kill	ation in epigastrium to	or 2 months. He
examination he was pale loo	king with visible joints deformi	ties in hands. His lahe: Hh	v7a/dl MCV-cafi med	cines. On
Who Toodoleum And the	e of anemia is present in this na	atient?	7.7 E/ Cl., MICY. 0311, PVC	2076,
 a. Ascorbic acid deficiency anemi 	a b. Cobalamine defic		c. Folic acid deficienc	v anomia
d. Iron deficiency anemia	e Thiamine deficie	ncu anamia		
62. A 39 years old female, who is	s 3 months post-natal, came to	outpatient department	with 2 months history	of fever with
aucora' icriigi BA' rii crii cas 9	nu abuominal discomfort. On a	evamination: Tomporatu	FOUTDOE Wand	
cervical lymph modes and 10	cm enlarged spieen. Her Labs:	Hb:10g/dl, WBC:100,000	O/cmm, platelets:450.	000/cmm uric
acid.ong/ui. what is the pro	phable diagnosis;		,	ooo, crimi, and
a. Acute myeloid leukemia	 b. Chronic myeloid leukemi 		noid leukemia	
d. Hodgkin's lymphoma	e. Non-Hodgkin's lymphom	a		
63. A 65 years old man presents	with acute onset of pain, swe	lling and erythema of the	e left knee. He denies	previous episode or
trauma to the knee. The din	rerential diagnosis includes ser	otic arthritis and gout. W	hich of the following i	s the best study to
differentiate between gout	and arthritis.			
a. WBC count b. X ray knee		d. Bone scan	e. Evaluation of syn	ovial fluid aspirate
64. After being injured by a bull	in his mother's farm, a young	man is placed in a cast f	or a supracondylar fr	acture of his homorus
A few hours later he begins	to experience intense pain, sv	welling and weakness in	the ipsilateral hand, P	ulse are normal in
bilateral upper extremities.	Which of the following is the	most appropriate initial	management of this	patient?
a. Observation b. Repeat x ra		per limb d. Rei	move caste	e. Forearm fasciotomy
65. A 4 years old child with mus	scle weakness of lower limbs	has been diagnosed as a	case of Congenital N	lyopathy. What can be
the mode of inheritance in	this disease?			
a. Autosomal dominant and x-lin		b. Autosomal recessive	e and x-linked	
c. X-linked, autosomal dominan		d. New mutation	e. Y- linked	
66. While examining a case of I			g sign is most likely t	o be present?
a. Babiniski's sign b. Go			homberg's sign	e. Sun set sign
67. A 4 years old girl has had jo		for over 6 months. She	is slow to move in th	e morning and moves a
if stiff for the 1st hours of t	the day. Thereafter, she is an	active child. Her ESR is a	raised. The most prob	pable diagnosis is:
a. Dermatomyositis	b. Duchenne Muscular D	ystrophy c. S	ystemic Lupus Erythe	
d. Congenital Myopathy	e. Juvenile Idiopathic Art	thritis		

- 113.A 68 year old woman with long standing rheumatoid arthritis presents for evaluation of anemia. Laboratory studies show a hemoglobin of 8, MCV 78, ferritin 350, transferrin saturation 15%, TIBC 220, reticuloyte count 1.5%, white blood cell count 7600/mm', platelet count 340,000/mm3. The likely cause is: d. Aplastic Anemia
- a. Iron Deficiency Anemia
- b. Anemia of Chronic Disease
- c. Sickle Cell Anemia
- 114.A 58-year-old woman is seen in the clinic for reports of severe back pain. Her chest x-ray demonstrates generalized bone demineralization and compression fracture. Blood studies demonstrate elevated calcium levels and renal insufficiency. The e. Non Hodgkin lymphoma most likely diagnosis is:

- 115.A 45 years woman presents with painless cervical lymphadenopathy for 6 months. She has no fever, sweats, or weight loss. Excisional biopsy reveals clonal population of small lymphocytes in the follicular growth pattern, with follicules of different shapes and sizes. Cytogenetic analysis would most likely demonstrate which of the following: d. Monosomy 7 c. Cyclin D1 overexpression
- a. C-MYC Overexpression
- b. P53 mutation
- 116.A 5 year old boy presented with High grade fever with rigors and chills for last two days. Peripheral blood smear showed Plasmodium vivax malaria. He was given Chloroquine. Afterward he started passing dark coloured urine. Urine RE showed Haemoglobinuria. His Reticulocyte count was high (7%). Most likely diagnosis is: d. Chronic renal failure.
- a. Iron deficiency anaemia.
- b. G6PD deficiency.
- c. Megaloblasticanaemia.
- 117.A 28 year old woman has an anterior mediastinal mass and non-tender lymphadenopathy in the right supraclavicular node is most likely diagnosed with which of the following? b. Sezary syndrome c. Hodgkin's disease d. Burkitt's lymphoma
- a. Histocytosis X

- 118.A 36 year old woman presented with weakness, lassitude and feeling easily tired. Her bone marrow aspirate showed 15% myeloblasts and reduced erythropolesis. The most likely cause is: c. Myelofibrosis
- a. Acute myeloid leukaemia
- b. Acute lymphoid leukaemia.
- e. Chronic myeloid leukaemia
- d. Myelodysplastic syndrome 119. Which of the following laboratory findings characterize a patient with DIC?
 - c. Decreased fibrinogen b. Elevated protein S and C.

a. Elevated plasminogen

- e. Thrombocytosis
- d. Normal clotting times (PT, APTT and TT)
- 120. Which one of the following is considered to be the hallmark of malignancy? c. Lack of encapsulation d. Regional Lymphadenopathy
- a. Anaplasia
- b. Stromal invasion