Paper II - SECTION A (GENERAL MEDICINE)

Part I: Multiple Choice Questions

[50X2=100]

- Rivaroxaban is an anticoagulant with mechanism of action as:
 - A) Factor Xa inhibition
 - B) Direct thrombin inhibition
 - C) Vitamin K antagonism
 - D) Low molecular weight heparin
- 2) Most specific symptom of temporal arteritis is:
 - A) Visual loss
 - B) Jaw claudication
 - C) Temporal headache
 - D) Polymyalgia rheumatic
- 3) A 30 year old female presents with fever, weight loss, cough and epistaxis since 4 months. Chest radiography reveals nodular pulmonary infiltrates with cavitation. Urine examination reveals active sediments with RBC casts. Likely diagnosis is:
 - A) Pulmonary tuberculosis
 - B) Sarcoidosis
 - C) Histoplasmosis
 - D) Granulomatosis with polyangitis
- 4) Culture of sputum of young girl with cystic fibrosis yields predominant bluish green mucoid colonies of oxidase positive gram negative bacilli after aerobic incubation at 37°C and 42°C the likely organism is:
 - A) Klebsiella Pneumoniae
 - B) Psedomonas aeruginosa
 - C) Burkholderia cepacia
 - D) Burkholderia Pseudomallei

- 5) Lipoatrophy can occur in patients treated with:
 - A) Abacavir
 - B) Tenofovir
 - C) Stavudine
 - D) Maraviroc
- 6) Sausage digit is seen in:
 - A) Rheumatoid arthritis
 - B) Juvenile idiopathic arthritis
 - C) Enteropathic arthritis
 - D) Psoriatic arthritis
- 7) All of the following are crtiteria for Septic shock **EXCEPT**:
 - A) Sepsis
 - B) Vasopressor therapy needed to elevate MAP to ≥ 65mmHg
 - C) Serum lactate concentration > 2mmol/L after fluid resuscitation
 - D) Elevated BNP levels
- 8) Aldosterone escape is:
 - A) Escape from the salt and water retaining effect of aldosterone
 - B) Escape of aldosterone from the stimulating effect of ACTH
 - C) Escape from the natriuretic effect of aldosterone
 - D) None of the above
- 9) Sterile pyuria is characteristic of:
 - A) Chronic hydronephrosis
 - B) Renal cell carcinoma
 - C) Renal tuberculosis
 - D) Nephroblastoma
- 10) A patient on Phenytoin develops rash with oral ulcers. The following antibody test would clinch the diagnosis:
 - A) Anti centromere antibody
 - B) Anti smith antibody
 - C) Anti histone antibody
 - D) Anti double stranded DNA antibody

- 11) All of the following are predominant motor neuropathy EXCEPT:
 - A) Acute inflammatory demyelinating polyradiculoneuropathy
 - B) Porphyric neuropathy
 - C) Lead intoxication
 - D) Arsenic intoxication
- 12) Treatment of Multiple sclerosis is:
 - A) Interferon alpha
 - B) Interferon beta
 - C) Infliximab A-
 - D) Interferon gamma
- 13) All about Mediterranean diet is true EXCEPT:
 - A) Characterized by a high intake of plant-based foods and olive oil, a moderate intake of fish and poultry, and low intakes of dairy products
 - B) Reduces both LDL and HDL
 - C) Associated with reduction in insulin resistance and endothelial dysfunction
 - D) Maintains total fat at approximately 35-40%
- 14) GBS is mostly characterized by all EXCEPT:
 - A) Motor weakness
 - B) Facial paralysis
 - C) Posterior column sensory loss
 - D) H/o preceding viral/bacterial infection holds an important clue
- 15) Vitamin B12 deficiency can give rise to all of the following, EXCEPT:
 - A) Myelopathy
 - B) Dementia
 - C) Peripheral neuropathy
 - D) Myopathy
- 16) Following statements about Kussmaul's sign are true EXCEPT:
 - A) Observed predominantly in left ventricular failure
 - B) Increased CVP during inspiration
 - C) Caused by severe right sided heart failure
 - D) Frequent in constrictive pericarditis

17) All of t	the following statements are true about Hemolytic uremic syndrome, EXCEPT:
A)	Uremia .
B)	Thrombocytopenia
4.1	Positive Direct Coomb's test (DCT)
D)	Fibrinogen normal

- 18) Lower Motor Neuron lesion is characterized by:
 - A) Flaccid paralysis.
 - B) Exaggerated Jaw Jerk
 - C) Spasticity
 - D) Positive Babinski sign
- 19) Hemibalismus is caused by lesions of the:
 - A) Caudate nucleus
 - B) Contralateral sub-thalamic nucleus
 - C) Putamen
 - D) Substantia Nigra
- 20) What is the initial test that is most commonly used for HCV screening?
 - A) HCV RNA by PCR
 - B) Anti-HCV (ELISA) Ab
 - C) Liver biopsy
 - D) Liver function tests
- 21) Which one of the following treatment for active ulcerative colitis would be preferable in male patients who are concerned about fertility?
 - A) 5-aminosalicylic acid
 - B) Sulfasalazine
 - C) Methotrexate
 - D) Lenalidomide

- 22) Autoimmune hemolytic anemia is an example of which type of hypersensitivity reaction?
 - A) Type I Hypersensitivity reaction
 - B) Type II Hypersensitivity reaction
 - C) Type III Hypersensitivity reaction
 - D) Type IV Hypersensitivity reaction
- 23) Which of the following have shown efficacy in treating Non alcoholic fatty liver disease (NAFLD)?
 - A) Vitamin E
 - B) Thiamine
 - C) Pentoxifyline
 - D) All of the above
- 24) Which of these microbes is the most likely cause of nosocomial pnuemonia in a patient in the ICU?
 - A) Coagulase-negative staphylococci
 - B) B.Staphylococcus aureus
 - C) C.Pseudomonas aeruginosa
 - D) Pneumocystis jiroveci
- 25) All of the following are common consequences of congenital heart disease in the adult EXCEPT:
 - A) Eisenmenger syndrome
 - B) Polycythemia
 - C) Infective endocarditis
 - D) Pulmonary embolism
- 26) RAI uptake is increased in:
 - A) Subacute thyroiditis
 - B) Toxic Multinodular goitre
 - C) On medications with Levothyroxine
 - D) Struma ovarii

27) Which	of the following is NOT associated with the diagnostic criteria for ARDS?
A)	Bilateral infiltrates on chest x-ray
B)	Acute onset

- C) Pulmonary capillary wedge pressure >19
 D) Refractory hypoxaemia (PaO2:FiO2<200)
- 28) Which one of the following skin changes is **NOT** typically seen in patients with diabetes mellitus?
 - A) Necrobiosis lipoidica
 - B) Acanthosis nigricans
 - C) Lipohypertrophy
 - D) Livedo reticularis
- 29) A 65 years old male presents with Ipsilateral 3rd nerve palsy and contralateral hemiplegia: the most probable diagnosis is:
 - A) Benedict's syndrome
 - B) Millard Gubler's syndrome
 - C) Weber's syndrome
 - D) Wallenberg syndrome
- 30) Which of the following will NOT have a high reticulocyte count?
 - A) Autoimmune haemolytic anemia
 - B) Polycythemia
 - C) Chronic blood loss
 - D) Aplastic anemia
- 31) Massive splenomegaly is NOT a characteristic feature of:
 - A) Infectious mononucleosis
 - B) Polycythaemia rubra vera
 - C) Chronic myeloid leukaemia
 - D) Tropical splenomegaly syndrome
- 32) Most common opportunistic CNS infection in AIDS:
 - A) Neurocysticercosis
 - B) Toxoplasmosis
 - C) Cryptococcosis
 - D) Aspergillosis

- 33) Which of the following is longest acting insulin?
 - A) Lispro
 - B) Aspart
 - C) Glargine
 - D) Human Mixtard Insulin in a ratio of 50:50
- 34) Metabolic syndrome is characterized by all EXCEPT:
 - A) Fasting glucose ≥100 mg/dL
 - B) Serum cholesterol ≥ 200 mg/dL
 - C) Triglyceride>150 mg/dl
 - D) Waist circumference ≥102 cm (40 in) in men
- 35) Root value for knee jerk is:
 - A) L3-L4
 - B) L1-L2
 - C) L4-L5
 - D) D12-L1
- 36) A 40 years old man presents with a 3 days history of severe chest pain , sharp and tearing in nature , radiating to the back. Patient's vitals are heart rate -95/min, respiratory rate 20/min, temperature 37°C , BP- 176/96 mm Hg , with a negative Trop-T: the most likely diagnosis is:
 - A) A.Acute Myocardial infarction
 - B) B.Aortic Dissection
 - C) C.Pulmonary embolism
 - D) Pneumonia
- 37) Antibiotic stewardship includes all of the following EXCEPT:
 - A) Preventing antibiotic misuse in hospital
 - B) Performing antibiotic cost analysis
 - C) Reducing C. difficle rates in hospital
 - D) Promote intravenous antibiotics over oral therapy
- 38) Treatment of choice for multiple myeloma is:
 - A) Bortezomib with Lenalidomide
 - B) Busulfan
 - C) Oral thalidomide
 - D) Oral steroids with bisphosphonates

- 39) Following is the first drug of choice for plasmodium falciparum in a PREGNANT lady:
 - A) Artemesin based therapy
 - B) Chloroquine alone
 - C) Quinine plus doxycycline
 - D) Clindamycin
- 40) A nursing student has just completed her hepatitis B vaccine series. On reviewing her laboratory studies (assuming she has no prior exposure to hepatitis B), you will find:
 - A) Positive test for hepatitis B surface antigen
 - B) Antibody against hepatitis B surface antigen (anti-HBs) alone
 - C) Antibody against hepatitis core antigen (anti-HBc)
 - D) Antibody against both surface and core antigen
- 41) Criteria for GESTATIONAL Hypertension include all EXCEPT:
 - A) New onset hypertension with SBP ≥ 140mmHg and/or diastolic BP ≥ 90mmHg
 - B) SBP ≥ 160mmHg and/or diastolic BP ≥ 110mmHg
 - C) Seen at ≥20 weeks of gestation
 - D) Absence of proteinuria or new signs of end organ damage
- 42) H pylori is associated with all of the following **EXCEPT**:
 - A) Chronic atrophic gastritis
 - B) Gastric carcinoma
 - C) Gastric lymphoma
 - D) Inflammatory bowel disease
- 43) CD 55, 59 mutation is seen in:
 - A) PCV
 - B) ALL
 - C) CML
 - D) PNH
- 44) Which of the following is **NOT** a feature of chronic liver failure:
 - A) Bleeding manifestations including petechiae
 - B) Bilateral arcus senilis
 - C) Palmar erythema
 - D) Loss of axillary and pubic hair

- 45) Which of the following is TRUE about Celiac disease EXCEPT:
 - A) Classic symptoms include diarrhea, steatorrhea, weight loss and growth retardation.
 - B) Endoscopic mucosal biopsy of the duodenum is standard method of confirmation.
 - C) Recommended test is IgA tissue transglutaminase (IgA tTG) antibody.
 - D) Usually not associated with other autoimmune diseases
- 46) According to WHO 2017 criteria, the hallmark of Polycythemia vera is:
 - A) Hematocrit > 59 % in females and > 60 % in males
 - B) Hematocrit > 48 % in females and > 49 % in males
 - C) Hematocrit > 50 % in females and > 50 % in males
 - D) Hematocrit > 39 % in females and >50 % in males
- 47) Severe Haemophilia A is characterized by Factor VIII activity:
 - A) < 5%
 - B) <1%
 - C) Between 1 to 5%
 - D) Between 6 to 10%
- 48) In Chronic myeloid leukemia, Philadelphia chromosome is results from translocation of:
 - A) Long arm of chromosome 9 to short arm of chromosome 22
 - B) Long arm of chromosome 9 to long arm of chromosome 22
 - C) Long arm of chromosome 22 to short arm of chromosome 9
 - D) Short arm of chromosome 22 to short arm of chromosome 9
- 49) Mycobacterium-avium complex prophylaxis in HIV is indicated at CD 4 count:
 - A) Less than 100
 - B) Less than 200
 - C) Less than 50
 - D) No relationship with CD 4 count
- 50) An 80-year-old male complains of a 3-day history of a painful rash extending over the left half of his forehead and down to his left eyelid. There are weeping vesicular lesions on physical examination. Which of the following is the most likely diagnosis?
 - A) Impetigo
 - B) Adult chickenpox
 - C) Zoster ophthalmicus
 - D) Herpes simplex

Part II: Write briefly about ANY FIVE of following

[5X4=20]

- 1. Management of Paroxysmal Supraventricular Tachycardia
- 2. Clinical features and treatment of Aortic stenosis
- 3. Management of Tubercular meningitis.
- 4. Clinical features and diagnosis of Multiple Myeloma
- 5. Idiopathic pulmonary fibrosis
- 6. Clinical picture and management of Wilson's disease
- 7. Polycythemia Vera
- 8. Complications and treatment of snake bite.
- 9. Clinical features and treatment of Osteoporosis
- 10. Diagnosis and treatment of celiac disease

Part III: Discuss in detail ANY TWO of the following

[2x15=30]

- 11. Diabetic ketoacidosis (DKA)
- 12. Clinical features and management of Systemic Lupus Erythematosus (SLE)
- 13. Status Epilepticus
- 14. Etiopathogenesis and management strategies of Adult respiratory distress syndrome

Paper II - SECTION B (PAEDIATRICS)

Part I: Multiple Choice Questions

[50X2=100]

- 1) All the following are possible cause of Precocious Puberty except -
 - A) Mc Cune Albright syndrome
 - B) Anorexia Nervosa
 - C) Hypothyroidism
 - D) Neurofibromatosis
- 2) What is underlying genetic cause for Pradarwilli Syndrom-
 - A) Triploidy on Chromosome 21
 - B) Maternal uniparentral isodisomy of Chromosome 7
 - C) Deletion of paternal copies of genes on Chromosome 15
 - D) Monosomy X
- 3) Intrauterine growth retardation can be caused by all of the following agents except-
 - A) Nicotin
 - B) Alcohol
 - C) Propranolol
 - D) Phenothiazine
- 4) A 7 year old boy with reduced weight and height for last one year is likely to have which of the following condition-
 - A) Mal Nutrition
 - B) Chronic Infection
 - C) Lymphoma
 - D) Varicella
- 5) Foetal respiratory movements occur earliest at what weeks-
 - A) 12 weeks
 - B) 11 weeks
 - C) 16 weeks
 - D) 20 weeks

A)	Less than 100 beats per minute
B)	Less than 120 beats per minute
C)	Less than 150 beats per minute
D)	Less than 120 beats per minutes for a period of 15 minutes continuous monitoring
8) Foetal	growth is maximally affected by which of the hormone –
A)	Insulin
B)	Growth hormone
C)	Cortisol
D)	Thyroxin
9) In assy	metrical IUGR- which of organ is not affected-
- A)	Subcutaneous tissue
B)	Liver
C)	Muscle .
D)	Brain
10) A 5 ye	ar child is assessed developmental age of 1 year. What would be his development
Quotie	ent-
A)	100
B)	80
C)	60
D)	20
11) 18 mc	onths old baby present with recurrent episodes of excessive crying followed by
occasi	onal seizure at 9 months of age. The most likely diagnosis-
A)	Epilepsy
B)	Anoxic spells
C)	Breath holding spells
D)	Vasovagal attack

6) Antenatal diagnosis of all following conditions is possible except-

A) Down's syndromeB) Anencephaly

C) Huntinton's chorea

D) Severe combined Immunodeficiency

7) Foetal Bradycardia is defined as when heart rate is-

12)	Normal	height	with	decrease	bone	age	is seen	in-
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- A) Cushings syndrome
- B) Hypothyroidism
- C) Thanatophoric dwarf
- D) Downs syndrome

13) Visual acuity reaches adult acuity by the age-

- A) 7 years
- B) 9 years
- C) 5 years
- D) 3 years

14) Commonest cause of Enuresis in children-

- A) Urinary tract infection
- B) Spina bifida
- C) Diabetes mellitus
- D) Psychological stress

15) Vitamin K deficiency occur in all except-

- A) Billiary obstruction
- B) Artificial milk foods
- C) Oral antibiotic therapy
- D) Mal absorption

16) Prenatal diagnosis is possible for all following except-

- A) Sickle cell trait
- B) Beta thalassemia
- C) Ectodermal dysplasia
- D) Duchenee muscular dystrophy

· 17) Cystic fibrosis can present with all except following-

- A) Salt depletion
- B) Pansinusitis
- C) Rectal polyposis
- D) Pancreatitis

A)	Streptococcus Pneumoniae
B)	Mycoplasma Pneuminiae
C)	gr A Streptococcus
D)	H. Influenza

requirement for-

- 20) Commonest extraintestinal manifestation of Coeliac disease-
 - A) Short Stratum
 - B) Arthritis

B) 14 daysC) 21 daysD) 28 days

- C) Aphthous ulcer
- D) Iron deficiency anaemia.
- 21) Choose the biomarker of bacterial sepsis=
 - A) Trop-1
 - B) CRP & Procalcitonin
 - C) Galactomannan
 - D) CA 19-9
- 22) Serum marker indicating Immune Status after vaccination for Hepatitis B is-
 - A) HBeAg
 - B) Anti HBclgM
 - C) Anti HBsAg
 - D) HBV DNA
- 23) H1N1 Influenza is best diagnosed at community level by-
 - A) Viral culture
 - B) RT-PCR assay on throat swab
 - C) Detecting viral neutralizing antibodies
 - D) Western blot assay

24) Ultra	filtrate which is filtered through glomerular capillar	y wall contains all o	f the following
excep	t-		
A)	Electrolytes		
B)	Low molecular weight proteins		
C)	Creatinine		
D)	Albumin		
25) An au	toimmune disease is-		
A)	AIDS		
B)	Lupus		

- A) Hemosiderin
- B) Ferritin

C) MumpsD) Measles

- C) Hemoglobin
- D) Transferrin
- 27) Vitamin B12 and Follic Acid have similar effects but what separates one from other-
 - A) Glossitis
 - B) No neurological symptoms in folic acid
 - C) Muscle wasting
 - D) Dizziness
- 28) What are the treatment option of Wilson's disease-
 - A) Penicillamine
 - B) Riboflavin
 - C) B12
 - D) Gluten free diet
- 29) Which medication is known to cause hypokalemia-
 - A) Salbutamol
 - B) Inhaled steroid
 - C) Ipratropium bromide
 - D) Magnesium Sulphate

- 30) The primary reason for AIDS, a deadly disease, is that it-
 - A) Caused by Virus
 - B) Caused by bacterium
 - C) Destroys key components of body internal defense system
 - D) Causes a breakdown of body's inflammatory system
- 31) Infants are more susceptible to bacterial infections due to low circulating IgG-
 - A) In Utero before birth
 - B) 0-3 months age
 - C) 3-12 months age
 - D) 12-24 months age
- 32) A 10 year old (had boil on left thigh and mild fever 1 month ago) presented with headache, malaise, lethargy, decreased urine output and puffiness of face; GUE; RBC Cast ++; albumin ++; low C3 level and normal C4 level. Which of the following is true about this disease-

A) Nephrotic Syndrome 50%
B) Acute renal failure 90%
C) Increase ASLO titer 70%
D) Hypertension 70%

- . 33) In the diarrhoea associated hemolytic uremic syndrome, one of the following has no beneficial role-
 - A) Dialysis
 - B) Early intravenous volume expansion
 - C) Control hypertension
 - D) Eculizumab
- 34) Dandy Walker malformation is characterized by following except-
 - A) Cystic dilatation of the fourth ventricle
 - B) Herniation of cerebellar tonsils through the foramen magnem
 - C) Hypoplasia of Cerebellar Vermis
 - D) Hydrocephalus

- 35) There are several predictors of epilepsy after febrile seizure, highest percent of risk factors for subsequent epilepsy after seizure is-
 - A) Complex febrile seizure any type
 - B) Fever < 1 hour before febrile seizure
 - C) Recurrent febrile seizure
 - D) Focal complex febrile seizure
- 36) The fascial port-wine stain of Sturge-Weber Syndrome is characterized by the following except-
 - A) Tends to unilateral
 - B) Always involved the upper face and eye lids
 - C) Its distribution is consistent with ophthalmic division of trigeminal nerve
 - D) Most children with port wine stain have SWS
- 37) The most common type of CP (Cerebral Palsy) associated with seizure is -
 - A) Spastic hemiplegia
 - B) Spastic Quadriplegia
 - C) Spastic Diplegia
 - D) Hypotonic CP
- 38) The CSF leucocyte count in normal healthy newborn may reach-
 - A) 15 leucocyte/mm3
 - B) 20 leucocyte/mm3
 - C) 25 leucocyte/mm3
 - D) 30 leucocyte/mm3
- 39) Gruntting is most commonly prominent in one of the following-
 - A) Asthma
 - B) HMD
 - C) Croup
 - D) Choanal atresia

	C)	Meckel's diverticulum
	D)	Anal fissure
42)		thy full term neonate, meconium is passed within 48 hours of birth in-
		99%
	B)	90%
*		80%
	D)	70%
43)		of the following statement regarding Zika virus is true-
		Transmitted by the site of cutex mosquito
	B)	Associated with bilateral pneumonia and ARDS
	C)	Belong to filovirus group
	D)	Congenital transmission leads to microcephaly
44)	Most	common cause of pleural effusion in children is-
	A)	TB ·
	B)	Congestive heart failure
	C)	Bacterial pneumonia
	D)	Malignancy
45)	All of	the following are embryonic haemoglobin except-
	A)	HbF
	B)	HbA2
	C)	Gower I
	D)	Portland

40) All of the following are common cause of emesis in childhood except-

41) All of the following are common causes of GI bleeding in infancy except-

A) GastroenteritisB) Toxic ingestionC) Pertusis syndrome

D) Peptic ulcer

A) Bacterial enteritisB) Intussuception

46) T	he fir	st perma	nent too	oth to	erupt is-
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- A) Central incisor at 6 years
- B) Molar at 6 years
- C) Premolar at 6 years
- D) Lower canine at 6-7 years

47) Most commonly used index for nutritional status is-

- A) Height for age
- B) Weight for height
- C) BMI
- D) Weight for age

48) Radiological features of Scurvy are similar to that of-

- A) Copper deficiency
- B) Zinc deficiency
- C) Vit. D excess
- D) Vit. A excess

49) The most convenient way to confirm a diagnosis of Pellagra in children is-

- A) Skin biopsy
- B) Response to Niacin treatment
- C) Physical signs of glossitis, dermatitis
- D) Urinary pyridine

50) Significant difference of blood pressure in upper and lower limbs is found in-

- A) Tetralogy of fallot
- B) Kawasaki disease
- C) PDA
- D) Coarctation of aorta

Part II: Write short notes on ANY FIVE of the following

[5X4=20]

- 1) Management of snake bite
- 2) Role of ECG in diagnosis of congenial heart disease
- 3) Week wise complications of Diphtheria and its management
- 4) Treatment of acute Idiopathic Thrombocyto penia (ITP)
- 5) Screening test for new born
- 6) Causes of Hypo kalemia and treatment
- 7) Treatment of Vit. D deficient Rickets
- 8) Outline to steps of management of severe malnutrition as per WHO guidelines in proper Sequence
- 9) New guidelines for Pediatric TB
- 10) Clinical features and management of cong Hypothyroidism

Part III: Explain in details ANY TWO of the following

[2X15=30]

- 11) Discuss portal hypertension and its management
- 12) Discuss spectrum of Dengue fever and its management
- 13) Discuss Kawasaki disease, its clinical manifestation and management
- 14) Describe in brief PPHN with regard to pathophysiology, diagnosis and management.