### **Anatomy**

### Regarding anterior choroidal artery syndrome, all are true except?

- A. Hemiparesis
- B. Hemisensory loss
- C. Predominant Involvement of anterior limb of internal capsule
- D. Homonymous hemianopia
- 1. Ans. C. Involvement of anterior limb of internal capsule

Ref. KEITH & MOORE CLINICAL ANATOMY

### Posterior limb of internal capsule is supplied by the anterior choroidal artery

Anterior choroidal artery territory stroke features:

- Complete Hemiplegia
- Hemianesthesia
- Homonymous hemianopia

	Anatomy of the Internal Capsule					
Division	Major Communication Tracts	Blood Supply				
Anterior limb	- Tracts between the frontal lobe and pons (brainstem) - Tracts between the thalamus and prefrontal cortex - Tracts between the thalamus and cingulate gyrus	- Lenticulostriate arteries (branches of the middle cerebral artery) - Recurrent artery of Heubner (branch of the anterior cerebral artery)				
Genu	- Tracts between the motor cortex in the frontal lobe and the cranial nerve nuclei in the brainstem (aka: corticobulbar tract)	- Lenticulostriate arteries (branches of the middle cerebral artery) - Recurrent artery of Heubner (branch of the anterior cerebral artery)				
Posterior limb	Tracts between the motor cortex of frontal lobe and anterior horn of spinal cord (aka: corticospinal tract)  Medial lemniscus tract (a continuation of the dorsal columns), which carries information about light touch, vibration, and pressure sensation from the body and spinal cord.  Anterolateral (aka: spinothalamic) tract, which carries pain and temperature information	- Lenticulostriate arteries (branches of the middle cerebral artery) - Anterior choroidal artery (branch of the internal carotid)				

## 2. Surgeon removes a part of liver to the left of falciform ligament. Which segment the surgeon has removed

A.1 & 4a B.2 & 3 C.1 & 4b D. 1& 3

2. Ans. b.2 & 3

Reference: Sabiston Surgery 18th

Resection **of segments II** and **III** is a commonly performed sublobar resection and is often referred to as a *left lateral segmentectomy* and *left lateral sectionectomy or left lobectomy.Left lobe is that part of liver to the left of the falciform ligament.* 

Extra edge:

Nomenclature for Most Common Major Anatomic Hepatic Resections

SEGMENTS	COUINAUD, 1957	GOLDSMITH AND WOODBURNE, 1957	BRISBANE, 2000
V-VIII	Right hepatectomy	Right hepatic lobectomy	Right hemi-hepatectomy
IV-VIII	Right lobectomy	Extended right hepatic lobectomy	Right trisectionectomy
II-IV	Left hepatectomy	Left hepatic lobectomy	Left hemi-hepatectomy
II, III	Left lobectomy	Left lateral segmentectomy	Left lateral sectionectomy
II, III, IV, V,	Extended left	Extended left lobectomy	Left trisectionectomy

SEGMENTS	COUINAUD, 1957	GOLDSMITH AND WOODBURNE, 1957	BRISBANE, 2000
VIII	hepatectomy		

### 3. Which of the following passes through foramen magnum?

A. Internal Carotid Artery

B. Sympathetic chain

C. Hypoglossal Nerve

D. Vertebral Artery

### 3. Ans. D. Vertebral Artery

Ref.Gray,s 40<sup>th</sup> ed.,B.D.C. 4<sup>th</sup> ed.

The **foramen magnum** is a large opening in the occipital bone of the cranium. It is one of the several oval or circular apertures in the base of the skull (the foramina), through which the medulla oblongata (an extension of the spinal cord) enters and exits the skull vault.

Apart from the transmission of the medulla oblongata and its membranes, the foramen magnum transmits the spinal accessory nerve, **vertebral arteries**, the anterior and posterior spinal arteries, the membrana tectoria and alar ligaments.

Extra Edge-

Foramen	Structure Passing through it
Hypoglossal canal	Hypoglossal nerve & artery
F.Spinosum	Middle meningeal artery & vein,meningeal branch of mandibular nerve
Jugular Foramen	Cranial nerve 9,10,11, Inferior petrosal sinus,Internal jugular vein
F.Ovale	Mandibular nerve, Accessory meningeal artery, Lesser petrosal nerve, Emissary vein
F.Rotundum	Maxillary artery
Mandibular foramen	Inferior alveolar nerve & vessels
Carotid Canal	Internal Carotid Artery

### 4. Deoxygenated blood is not seen in

A. Pulmonary artery

B. Umbilical artery

C. Umbilical vein

D. Right heart

### 4. Ans. c. Umbilical vein

Ref.Ganong Physiology 23<sup>rd</sup> ed., Dutta 6<sup>th</sup> ed.

Heart assumes normal four chambered configuration by End of 6 weeks of Intrauterine life.

For exchange of gas Fetus depends on Placenta While Neonate depends on Lungs. OXYgenated Blood from placenta  $\rightarrow$  Umbilical Vein  $\rightarrow$  Portal Vein  $\rightarrow$  Ductus Venosus $\rightarrow$ IVC

 $\rightarrow$ Right Atrium  $\rightarrow$  From here blood is divided in 2 streams by Crista dividends(inferior margin of Septum Secundum

### Stream 1

One third of blood goes to Fossa ovalis  $\rightarrow$ left atria  $\rightarrow$ Left ventricle  $\rightarrow$ Ascending aorta for distribution to coronaries, head & upper limb.

### Stream 2

Two third of blood get mixed with SVC blood and it goes to  $\rightarrow$ RV  $\rightarrow$ pulmonary trunk  $\rightarrow$ ductus arteriosus  $\rightarrow$  Descending aorta  $\rightarrow$ lower body

In fetal circulation LV & RV works in parallel i.e. L V supplies upper body & R V supplies lower body.

### 5. All of the following are pneumatic bones except?

A. Frontal B. Ethmoid C. Mandible D. Maxilla

### 5. Ans. C. Mandible

### Pneumatic bones:

Pneumatic bones can also be categorized under the irregular bones because they are also irregular in shape but since there is a difference between the two that is characteristically very important therefore they are often classified separately. The characteristic difference is the presence of large air spaces in these bones which make them light in weight and thus they form the major portion of skull in the form of sphenoid, ethmoid and maxilla. Besides making the skull light in weight they also help in resonance of sound and as air conditioning chambers for the inspired air.

- Pneumatic bones are those bones which contain an air filled cavity within them
- In humans, they are seen in relation to the the nasal cavity they enclose the paranasal sinuses
- Pneumatic bones are maxilla, frontal bone, sphenoid and ethmoid

### 6. All are seen in injury to common peroneal nerve except?

A. Loss of sensation over sole

B. Foot drop

C. Injury to neck of fibula

D. Loss of dorsiflexion of toe

6. Ans. A. Loss of sensation over sole

Ref. Gray's Anatomy 40<sup>th</sup> ed.,B.D.C. 4<sup>th</sup> ed.

Sensory loss to sole of foot in tibial nerve palsy.

Common Peroneal Nerve

### PED - Peroneal Everts and Dorsiflexes, if injured than see foot drop.

Root Value- L4, L5, S1, S2

Loss often due to Compression at Fibular Neck (Superficial there - seen with kneeling alot and banging knees), Hip Fracture/Dislocation, Misplaced Gluteal Injection, Piriformis Syndrome causes dec sensation of Anterior Leg, Dorsum of Foot; dec Dorsiflexion, Eversion of Foot

### Innervates: Anterior and Lateral Leg Compartments

Tibialis Anterior Muscle

Extensor Digitorum Longus Muscle

Fibularis Tertius Muscle (Peroneus)

Extensor Hallucis Longus Muscle

Fibularis Longus Muscle (Peroneus)

Fibularis Brevis Muscle (Peroneus)

### Skin Sensation on top of foot (dorsum, not the sole)

Pathology:

### Neck Fracture of Fibula or trauma to lateral leg

<u>Baker's Cyst</u> Removal can hurt nerve in popliteal fossa dec innervation of <u>Tibialis Anterior</u> via deep branch (dec Dorsiflexion, Foot Eversion and Foot Drop/Dragging) and dec sensation to anterolateral upper calf

### 7. Which among the following is a branch from the trunk of brachial plexus?

A. Suprascapular nerve

B. Lateral thoracic nerve

C. Anterior thoracic nerve

D. Nerve to subclavius

### 7. Ans. Suprascapular nerve

### Ref. Ugo Human Anatomy

BRANCHES OF THE BRACHIAL PLEXUS

There are a total of 17 branches arising from the brachial plexus that are destined to supply the upper limb. There are other branches that supplies structures within the neck, they include; nerve to scaleni and a branch that join the phrenic nerve to supply the diaphragm.

Of the seventeen branches of the brachial plexus, three of the branches arise from the root, one from the trunk, three from the lateral cord, five from the medial cord and five from the posterior cord.

### BRANCHES FROM THE ROOT

- 1. Long thoracic nerve of bell (C5,C6,C7).
- 2. Dorsal scapular nerve (C5).

### 3. Nerve to subclavius (C5, C6).

### **BRANCH FROM THE TRUNK**

### 1. Suprascapular Nerve.

BRANCEHS FROM THE LATERAL CORD

- 1. Lateral pectoral Nerve. ((C5, C6).
- 2. Musculocutaneous (C5,C6, C7)
- 3. Lateral root of median nerve (C5, C6, C7).

BRANCHES FROM THE MEDIAL CORD

- 1. Medial pectoral nerve
- 2. Medial cutaneous nerve of arm
- 3. Medial cutaneous nerve of forearm
- 4. Ulnar nerve
- 5. Medial root of median nerve

POSTERIOR CORD BRANCHES

- 1. Axillary nerve (C5, C6)
- 2. Upper subscapular nerve (C5,C6)
- 3. Thoracodorsal nerve (C7,C8).

4. Lower subscapular nerve (C5,C6) 5. Radial nerve (C5-T1). Main blood supply of neck of femur? A. Lateral circumflex femoral artery B. Medial circumflex femoral artery C. Profunda femoris artery D. External Iliac Artery 8. Ans. B. Medial circumflex femoral artery 9. Right isomerism is? B. Two spleens C. One spleen D. Polysplenia A. Asplenia 9. Ans. A. Asplenia Urethral crest is situated in: 10. A. Prostatic urethra B. Membranous urethra C. Penile urethra D. Bulbar urethra 10. Ans. A. Prostatic urethra What is the type of joint seen at Growth plate-B. Primary cartilagenous A. FibroCartilaginous C. Secondary cartilagenous D. Gomphosis 11. Ans. B. Primary cartilagenous Which among the following is not a component of hypogastric sheath? A. Broad ligament of uterus B. Transverse cervical ligament C. lateral ligament of uterus D.lateral ligament of bladder 12. Ans. A. Broad ligament of uterus All are seen in the floor of 3rd ventricle except? A. Infundibulum C. Mammillary body D. Optic Stalk B. Oculomotor nerve 13. Ans. D. Optic Stalk 14. Lines of blaschko are: B. Blood vessel C. Nerves A. Lymphatics D. Lines of development 14. Ans. D. Lines of development All of the following are affected in low radial nerve palsy except? A. Extensor carpi radialis longus B. Extensor carpi radialis brevis C. Finger extensors D. Sensation on dorsum of hand 15. Ans. A. Extensor carpi radialis longus Site not affected in posterior cerebral artery infarct is? A. Midbrain B. Pons C. Thalamus D. Striate cortex 16 Ans. B. Pons Bifurcation of Common carotid artery is palpated at? A. Upper border of cricoid cartilage B. Upper border of thyroid cartilage C. Hyoid bone D. Cricothyroid membrane

17. Ans. B. Upper border of thyroid cartilage

18. In L5 root involvement, which among the following is not affected?

A. Thigh adduction B. Knee flexion C. Knee extension D. Toe extension

18. Ans. A. Thigh adduction

19. Muscular component of dorsal aorta develops from?

A. Septum transversum B. Paraxial mesoderm

011-42433051, 011-25853434, 9873314110, 9953550295, 8447461112, 8447461113, 8447461114

C. Intermediate mesoderm

D. Lateral plate mesoderm

19. Ans. B. Paraxial mesoderm

### 20. Diaphragm develops from all except:

A. Septum transversum

C. Pleuroperitoneal membrane

B. Dorsal mesocardium

D. Cervical myotomes

20. Ans. B. Dorsal mesocardium

### 21. Posterior relations of head of pancreas are all except?

A. Common bile duct

B. First part of duodenum

C.Right crus of Diaphragm

D. Inferior vena cava

21. Ans. B. First part of duodenum

### 22. Which of the following is not supplied by the anterior division of mandibular nerve (V3)?

A. Temporalis B. Medial pterygoid C. Lateral pterygoid

D. Masseter

22. Ans. B. Medial pterygoid

## **Physiology**

### 1. Basal metabolic rate is closely associated with?

A. Lean body mass B. Body surface area C. Daily activity D. Food Intake

### 1. Ans. A. **Lean body mass >** B. Body surface area

Both options A and B seems correct (BMR = 3.52 X body weight<sup>0.75</sup>). If there are two individuals with the same surface area but one has a higher lean body mass then the one with a greater lean body mass will have a higher RMR

**Basal Metabolic Rate (BMR)**, and the closely related **resting metabolic rate (RMR)**, is the amount of daily <u>energy</u> expended by humans and other animals at rest. Rest is defined as existing in a neutrally <u>temperate</u> environment while in the post-<u>absorptive state</u>.(Inactive digestive system ,which requires about 12 hours of rest)

BMR normally averages about 65 to 70 cal/ hr in average 70kg male. As BMR is energy expended at rest so option C & D are ruled out.

### 2. Mineralocorticoid receptor is not present in?

A. Liver B. Colon C. Hippocampus D. Kidney

### 2. Ans. A. Liver

The **mineralocorticoid receptor** (or MR, MLR, MCR), also known as the **aldosterone receptor** or **nuclear receptor subfamily 3, group C, member 2**, (**NR3C2**) is a protein that in humans is encoded by the *NR3C2* gene that is located on chromosome 4q31.1-31.2

MR is expressed in many tissues, such as the kidney, colon, heart, central nervous

**system (hippocampus)**, **brown adipose tissue and sweat glands**. In epithelial tissues, its activation leads to the expression of proteins regulating ionic and water transports (mainly the epithelial sodium channel or ENaC, Na+/K+ pump, serum and glucocorticoid induced kinase or SGK1) resulting in the reabsoprtion of sodium, and as a consequence an increase in extracellular volume, increase in blood pressure, and an excretion of potassium to maintain a normal salt concentration in the body.

### 3. The primary action of NO in GIT is?

A. Vasodilatation B. Vasoconstriction

C. GI smooth muscle Relaxation D. Slow Smooth muscle contraction

### 3. Ans. C. GI smooth muscle Relaxation

NO, also k/a EDRF (endothelial derived relaxation factor), is synthesized by the endothelial cells in response to a number of stimuli. The NO that is formed by the endothelial cells diffuses to the smooth muscle cells, where it acts via cGMP to produce vascular smooth muscle relaxation.

Action of NO in the gut: During peristalsis initiated by stretching of the gut wall by the contents of the small intestine, there occurs a ring of contraction behind the food and an area of relaxation in front of it. The relaxation produced in the anterograde direction is due to activation of neurons that secrete NO, VIP, and ATP, all of which produce relaxation.

NO causes Relaxation of smooth muscle via Non Adrenergic Non cholinergic action.

### 4. Main site of water absorption is:

A. Jejunum B. Colon C. Ileum D. Stomach

### 4. Ans. A. Jejunum

Daily total water input into the GI tract is approximately 9000ml 2000ml is ingested daily and 7000ml from endogenous secretions.

**5500ml** is reabsorbed in the jejunum, 2000ml in the ileum, 1300ml in the colon and the remaining 200ml appears in the stool.

### 5. Small air way has laminar flow because?

A. Reynold number more than 2000

B. Diameter is very small

C. The linear Velocity of Airflow in Small Airway is extremely low

D. Total cross sectional area low

### 5. Ans. C. The linear Velocity of Airflow in Small Airway is extremely low

The onset of turbulence under ideal conditions can be predicted by calculating the Reynold's number (Re): Re = D v d / V

Where D = diameter, v = mean velocity, d = density, V =  $\underline{\text{viscosity}}$ 

Reynold's Number greater than 3000 → Turbulent Flow.

Reynold's Number less than 2000 → Laminar Flow.

Velocity of flow is inversely proportional to total cross sectional area; since the total cross sectional area of small airways is large the velocity of flow is low. When the velocity of flow is low Reynold's number is less and so is tendency for turbulence.

Capillaries have highest cross sectional area so maximum turbulence.

### 6. Orthopnoea in Congestive heart failure develops due to?

A. Reservoir function of pulmonary veins

B. Pooling of blood in lower limb veins

C. Pulmonary Hypertension D. Systemic Hypertension

### 6. Ans. A. Reservoir function of pulmonary veins

Ref: Harrison 17<sup>th</sup> edi pg 1446

Orthopnea is Sensation of breathlessness in recumbent position ,relieved by sitting or standing.it is caused by An increase in venous return associated with recumbent position.

Orthopnoea is usually a later manifestation of HF than is exertional dyspnoea. It results from **redistribution of fluid from the splanchnic circulation and lower extremities into the central circulation during recumbency,** with a resultant increase in pulmonary capillary pressure.

### 7. Nucleus involved in papez circuit-

A.Pulvinar B.VPL Nucleus C.Intralaminar D.Anterior NU. Of thalamus

7. Ans.d.Anterior NU. Of thalamus

### 8. All the following are true about phagocytosis except-

A.Amoeba & other protozoans lives thier life out of it.

C..Used to ingest particles < 0.5microns in size

D.Digestion occurs within phagolysosomes

8. Ans.B.Used to ingest particles < 0.5microns in size

### **Biochemistry**

### 1. Thiamine deficiency causes decreased energy production because?

A.it is required for the process of transamination

B.it is co-factor in oxidative reduction

C.it is co-enzyme for transketolase in pentose phosphate pathway

D.it is co-enzyme for pyruvate dehydrogenase & alpha ketoglutarate dehydrogenase

1. Ans. D.it is co-enzyme for pyruvate dehydrogenase & alpha ketoglutarate dehydrogenase

## 2. What factor is responsible for deciding whether an antibody will remain membrane bound or get secreted?

A. Carbohydrate content B. Class switching C. Differential RNA splicing D. Surface charge

2. Ans. C. Differential RNA splicing

3. Vitamin K is involved in the post translational modification of?

A. Glutamate B. Aspartate C. Tyrosine D. Tryptophan

3. Ans. Glutamate

4. Which among the following is not a cause of fasting hypoglycemia?

A. Glucagon excess

B. Glucose 6 phospatase deficiency
C. Cirrhotic liver damage

D. Glycogen synthase deficiency

4. Ans. A. Glucagon excess

5. Cell fusion is a innovative method of preparing specific antibodies. Technique to induce cell fusion includes following all except?

A. Attaching inactive viral particle on cell membrane B. Adding ethylene glycol

C. Applying a small electric current D. Reducing the viscosity of the membrane

5. Ans. **D. Reducing the viscosity of the membrane** 

6. **Urea cycle occurs in:** 

A. Liver B. Intestine C. Brain D. Kidney

6. Ans. A. Liver

7. Which of the following change in a vector used to increase the yield of protein produced in recombinant protein synthesis?

A. Inducible promoter B. Genes for protease inhibitors

C. Translation initiation D. Translation and transcription termination

7. Ans. A. Inducible promoter

8. Two plants are grown. One to express green fluorescent pigment & Other express Fire fly luciferase containing media. Which plant will glow in the dark?

A. Both plants will glow B. Neither will glow

C. Plant expressing green fluorescent pigment will glow D. Plant expressing firefly luciferrase will glow

8. Ans. D. Plant expressing firefly luciferrase will glow

9. A patient who was given primaquin develops hemolysis. The probable cause may be

A.Glucose 6 phosphate dehydrogenase deficiency
C. Alpha keto glutarate dehydrogenase deficiency
D. Pyruvate Kinase Deficiency

9. Ans. A.Glucose 6 phosphate dehydrogenase deficiency

10. Transfer of an amino group from an amino acid to an alpha keto acid is done by?

A.Tranaminases B.Aminases C.Transketolase D.Decarboxylase

10. Ans. A.Tranaminases

Q.11 Which of the following statements about high density lipoproteins (HDL) is false-

A.HDL increases oxidation of LDL
C.HDL is best predictor of CAD
B.HDL reduces foam cell production by Idl
D.HDL helps to clear lipids from atheroma

11. Ans. A.HDL increases oxidation of LDL

### <u>PATHOLOGY</u>

1. which of the following helps in generating oxygen burst in the neurophils?

A. superoxide dismutase B.NADPH oxidase C. peroxidase D. Glutathione reductase

1. Ans. B.NADPH oxidase

2. A.	SLE	Which is	s not an	<b>autoimmune disease?</b> B. Grave's disease		C. Myasthenia gr	avis	D. Sickle	cell disease
2.	Ans.	D. Sickle	cell disea	se					
	enera		thmatic	by completed 8 out of 10 rash which is mildly pru B. Type 3 hypersensitivity	ıritic and		thy. Dia	gnosis is	
3.	Ans.	B. Type 3	hyperse	nsitivity					
	Vaso	constrictio	n	ne following is the hallmose in permeability	B. Stasi				
4.	Ans.	C. Vasodil	ation and	d increase in permeability					
5. A.	IgG	Some a	ntigen w	<b>ras injected into a rabbi</b> B. IgM	<b>t. What</b> C. IgA	antibody will it p	<b>produce</b> D. IgD	initially?	
5.	Ans.	B. IgM							
6. A.	Nucle		e organ	elle involved in the exec B. Lysosome	cution of C. Mitoc		D. Endo	plasmic re	eticulum
6.	Ans.	C. Mitocho	ondria						
	Follic	<b>Psammo</b> cular carcir adenocarci	noma thy	lies are seen in all exceproid		ary carcinoma thy	roid		
7.	Ans.	A. Follicula	ar carcin	oma thyroid					
8. A.	ApoE	_		ing factor for atheroscle a 2-macroglobulin		aque formation? kidised LDL		ased hom	ocystiene
8.	Ans.	B. Alpha 2	2-macrog	lobulin					
9. A.	B cel		tent act	<b>ivator of T cells?</b> B. Follicular dendritic cells	5	C. Mature dendri	tic cells		D. Macrophages
9,	Ans. C	. Mature d	lendritic	cells					
В. С.	Norn Thro Norn	nal platelet mbocytope nal bleedin	t count wenia with g time w	elet function defect? ith prolonged bleeding tim prolonged bleeding time ith normal platelet numbe vith decreased bleeding tin	r				
Αı	ns. A.	Normal pl	atelet co	unt with prolonged bleedin	ng time				
В. С.	Facto Extri Calci	or 10 in a p nsic pathw um is very	part of bo ay is act importa	ut blood coagulation exopth intrinsic and extrinsic pivated by contact with plasm for coagulation e activated in vitro	oathway	negatively charge	d protein:	s	
1:	L. Ans	. B. Extrin	sic pathv	vay is activated by contact	with pla	sma and negativel	y charge	d proteins	ı
12 A.		All of th		ing are neuronal tumou B. Ganglioglioma		ot? oblastoma	D. Epen	dymoma	
12	2. Ans	. D. Epend	lymoma						

### Which complement component is first common point between involved classical and alternate pathway? A. C1 B. C2 C. C3 D. C4 13. Ans. C. C3 All are true about xanthogranulomatous inflammation except? B. Presence of tuberculous infection A. Presence of foamy macrophages D. Presence of yellow Nodules C. Multinucleated giant cell 14. Ans. B. Presence of tuberculous infection All are involved in generating free oxygen radical for killing of bacteria except-A.Superoxide Dismutase B.Fenton's reaction C.NADPH oxidase. D.Glutathion peroxidase 15. Ans. D.Glutathion peroxidase Which is false about Bernard Soulier syndrome-A.Ristocetin Aggregation is normal B.Aggregation with collagen & ADP is normal C.Large platelets D.Thrombocytopenia 16. Ans. A.Ristocetin Aggregation is normal Slide fixing in pathology most commonly done by -C.Picric acid A.Formaldehyde B.Alcohol D.Glutraldehyde 17. Ans. A.Formaldehyde **PHARMACOLOGY** Which of the following is given to treat thrombocytopenia secondary to myelosuppresive therapy -B.Oprevelkin(interleukin-11) D.Erythropoietin A.Iron Dextran C.Tranexamic Acid 1. Ans. B.Oprevelkin(interleukin-11) True about MRSA resistance is-A.Due to production of Penicillinase B.Due to alteration in penicillin binding proteins C.Plasmid mediated D.Treated with amoxicillin & clavulinic acid 2. Ans. B.Due to alteration in penicillin binding proteins Treatment with INH leads to deficiency of? A.Thiamine B.Niacin C.Pyridoxine D.Pantothenic acid 3. Ans. C.Pyridoxine Which drug not used to control bleeding while delivery of a woman with heart disease? A.Methylergometrime **B.Carboprost** C.Syntocin D.Misoprostol 4. Ans. A.Methylergometrime All true about Fulvestrant ( selective estrogen receptor downregulator) A. Used for treatment of advanced breast cancer B. Also known as pure anti estrogen

### 5. Ans. C. Is slower acting, have shorter duration of action & lower safety profile than SERM

### 6. All are true about Ranalozine except?

D.Administered as once monthly intramuscularinjection.

A. Has hypotensive effects B. 1st line antianginal drug

C. Is slower acting, have shorter duration of action &lower safety profile than SERM

C. Affects glycemic control D.Induces CYP3A

6. Ans. A. Has hypotensive effects Drug of choice for central diabetes insipidus is? A. Desmopressin B. Leuperolide C. Thiazide diuretics D.Insulin 7.Ans. A. Desmopressin Integrase inhibitor approved for treatment of HIV is-A. Raltegravir B. Indinavir C. Lopinavir D.Tipranavir 8. Ans. A. Raltegravir Which of the following antihypertensive drugs is contraindicated in a patient on lithium therapy in order to prevent toxicity? B. Beta blockers A. Clonidine C. Calcium channel blockers D. Diuretics 9. Ans. D. Diuretics Which of the following is not an adverse effect of thalidomide? A. Diarrhoea B. Teratogenicity C. DVT D. Hypothyroidism 10. Ans. A. Diarrhoea 11. Amphotericin b causes deficiency of? B. Ca C. K D. Mg A. Na 11. Ans. C. K All of the following decrease bone resorption in osteoporosis except? B. Etidronate A. Alendronate C. Strontium D. Teriparatide 12. Ans. D. Teriparatide Which is not seen in digoxin toxicity? 13. A. Biventricular tachycardia B. Proxysmal atrial tachycardia C. Ventricular bigeminy D. Regularisation of Atrial Fibrillation 13.Ans. D. Regularisation of Atrial Fibrillation **Buprenorphine is?** A. Partial agonist at mu receptor B. Partial agonist at kappa receptor C. Full agonist at mu receptor D. Antagonist at kappa receptor 14.Ans. A. Partial agonist at mu receptor Which among the following is the best inotrope drug for use in right heart failure due to pulmonary hypertension A. Dopamine B. Isoprenaline C. Halothane D. Milrinone 15. Ans. D. Milrinone Which among the following does not cause hyperpyrexia? A. MAO inhibitors B. Alcohol C. TCA's D. Amphetamine 16. Ans. B. Alcohol All are true about Aprepitant except? B. Crosses blood brain barrier A. Agonist at Nk1 D. Metabolized by CYP3A4 C. Ameliorates nausea and vomiting of chemotherapy 17. Ans. A. Agonist at Nk1

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A. Acetylcholinesterase inhibition by malathion can be reversed by increasing the level of atropine

Which of the following is true?

B. Sulphonilamide inhibits folate reductase irrevesibly

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		etively inhibits aconitase ng aldehyde dehydrogenas	e when used in methanol p	oisoning			
18. Ans	. D. Ethanol acts b	y inhibiting aldehyde dehy	drogenase when used in m	ethanol poisoning			
		c patient started on halo vements. What is the dia B. Tardive dyskinesia		nes with complaints of torticollis  D. Akathisia			
	. A. Acute dystonia	•					
<b>20.</b> A. Molar	Mifepristone is pregnancy	B. Threatened abortion	C. Fibroid	D. Ectopic pregnancy			
20. Ans	. C. Fibroid > D. E	ctopic pregnancy					
B. Food C. Acnife	21. All of the following are true about erlotinib except?  A. Small molecular inhibitor of tyrosine kinase associated with EGFR receptors  B. Food delays its absorption  C. Acniform eruptions and diarrhea are its common side effects  D. Used in non small cell lung cancer when there is no response to other chemotherapeutic agents						
21. Ans	. B. Food delays it	s absorption					
22. A. Bleor		city is seen with?  B. Cisplatin	C. Doxorubicin	D. Actinomycin D			
22. Ans.	. A. Bleomycin						
23. A. Tamo		the treatment of hot flus B. Venlafaxine	shes except? C. Gabapentine	D.Peroxetine			
23. Ans.	. A. Tamoxifene						
B. Incide C. It dec	eases post parand ence of Hypoglyce creases insulin res	mia less common than sulf	fonylureas				
24. Ans.	. C. It decreases in	nsulin resistance					
25.	Pregnant moth	er at 35 weeks of gestat	ion with SLE. Which of t	he following drug can not be			
<b>used-</b> A. Predr	nisolone	B. Methotrexate	C. Sulfsalazine	D. Hydroxychloroquine			
25. Ans	. B. Methotrexate						
26. A. Miosi		<b>pioids develops to all exc</b> B. Analgesia	c <b>ept?</b> C. Euphoria	D. Nausea and vomiting			
26. Ans.	. A. Miosis						
	All are actions of eases gastric secretains eases tracheobron		t except?  B. Prolongs A-V conductio  D. Causes Contraction of i				
27. Ans	. D. Causes Contra	action of radial muscles of i	ris				
28. A. Propr		orophylaxis of migraine a B. Flunarizine	are all except? C. Topiramate	D. Levetiracetam			
28 Ans	. D. Levetiracetam	1					

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D. Ifosfamide

Administration of which of the following drug needs alkalization of urine? sine arabinoside B. Methotrexate C. Cisplatin D. Ifosfamio

A. Cytosine arabinoside

29. Ans. B. Methotrexate

### 30. All of the following are true regarding diabetes mellitus except?

- A. Type 2 diabetes patients never requires insulin
- B. Sliding scale regimen is used in hospitalized patients
- C. Low evening insulin dose prevents nocturnal hypoglycemia
- D.Regular insulin is used in treatment of gestational diabetes
- 30. Ans. A. Type 2 diabetes patients never requires insulin
- 31. All are true regarding serotonin syndrome except?

A. It is not idiosyncratic and unpredictable B. Dantrolene is drug of choice

C. Can be used by SSRI D.Features include hyperthermia & hypertension

31. Ans. B. Dantrolene is drug of choice

### **MICROBIOLOGY**

1. About tetanus true is a/e

C. Incubation period period 6-10 days

D.Person to person transmission does not occur

### 1. Ans. B.3 doses of vaccine to be given for primary prevention

2. A farmer from Himachal Pradesh presents with small ulceron leg.After few days he developed a swelling in the inguinal region which later ulcerated. What stain can be used to detect bipolar stained organisms?

A. Albert's stain B. Waysons stain C. Ziehl Neelson staining D.MacFadyean's stain

2. Ans. B. Waysons stain

3. Vectors does not transmits infection by -

A. Ingestion B.Regurgitation C. Rubbing of infected feces D.Contaminated body fluids

3. Ans. A. Ingestion

4. All are factors responsible for resurgence of malaria except

A. Drug resistance B. Use of bed nets C. vector resistance D. Development of newer strains of parasite

4. Ans. B. Use of bed nets

5. Regarding Leptospirosis.True is-

A.Rats are only reservoir B.Fluroquinolones are drug of choice

C.Person to person transmission D. Oro fecal transmission

5. Ans. A.Rats are only reservoir

6. Fungus causing infection in immunocompetent individuals is-

1.Aspergillus 2.Penicillium 3.Cryptococcus 4. Candida

6. Ans. 4. Candida

7. A 7 month old child presents with history of bouts of cough ending with a whoop. Immunization history is not available. What is the best way to confirm the diagnosis?

A. Nasophayngeal swab B. Cough plate culture C. Tracheal aspirate D. Oral swab

7.Ans. A. Nasophayngeal swab

8. Aflatoxin is produced by?

A. Aspergillus flavus B. Aspergillus niger C. Candida albicans D.Actinomycetes

8. Ans. A. Aspergillus flavus

useful test to identify organism?

A. Bile solubility

19. Ans. A. Bile solubility

### The polysaccharide capsule of following bacteria have no role in their infectivity-A. Neisseria meningitidis B. Pneumococcus C. Bordetella pertussis D. Haemophilus influenza 9 Ans. C. Bordetella pertussis About Campylobacter jejuni false is-A. Most common pathogenic strain to cause campylobacteriosis in india B.Polutry is main source of infection C.Humans are only reservoir D.Associated with GBS 10. Ans. C.Humans are only reservoir Which virus among the following is least likely to cross placenta? A. Rubella B. Herpes simplex C HIV D. HBV 11. Ans. B. Herpes simplex About yaws all are true except: A. Caused by Treponema pertenue B. Transmitted non-venerally C. Secondary yaws can involve bones & joints D. Late stages involve heart and nerves 12. Ans. D. Late stages involve heart and nerves 'C' in C reactive protein stands for: A. Capsular polysaccharide in pneumococcus B. Concanavalin-a C. Calretinin D. Cellular 13. Ans. A. Capsular polysaccharide in pneumococcus A young lady presents with fever, dysuria and pain in lower abdomen. Uncomplicated acute cystitis was diagnosed. Which among the following is not true? A. Nitrate test positive for urine sample B. E.coli colony count < 10^3 bacteria /ml C. 1 pus cell per 7 fields in wet film of patients urine D. 1 bacilli per oil immersion field in gram stained urine sample. 14. Ans. B. E.coli colony count < 10^3 bacteria /ml All are true about Parvovirus except? A. <10 % spread by transplacental route B. Spread by respiratory route C. It is a DNA virus D. Affects erythroid progenitor cells 15. Ans. A. <10 % spread by transplacental route Sterile pyuria is present in? A. Renal tuberculosis B. Chronic hydronephrosis C. Wilm's tumour D. Neuroblastoma 16. Ans. A. Renal tuberculosis Visceral larva migrans is seen in? 17. A. Strongyloides stercoralis B. Ankylostoma duodenale C. Toxocara canis D. Ascaris lumbricoides 17. Ans. C. Toxocara canis Following are true about carbohydrate antigen except? B. Poly clonal response C. Highly immunogenic D. T cell independent immunity A. Memory 18. Ans. A. Memory An elderly male presents with chestpain & cough with expectoration since 15 days. The bacterium obtained from sputum grows on blood agar & shows gram positive cocci. Which is most

C. Catalase test

D. oxidase test

B. Bacitracin sensitivity

20. <b>organis</b>		female presents with signs of meningitis. CSF shows gram positive bacilli. Most likely				
A. Lister	_	B. Haemophilus in	nfluenzae	C. Pneumococcus	D. Pseudomonas	
20. Ans	s. A. Listeria					
penicill	loss.He is also a in.Sputum exan evidence of gra	a known case of one	congenital hea I,however bro	art disease ,for wh onchoscopic lavage	veeks.He has reduced app ich he has taken prophyli e cultured on sheep blood aments. What is likely	axis of
_	omycosis	B. Nocardiosis	C. Asp	pergillus	D. Mycobacterium tubercul	osis
21. Ans	. B. Nocardiosis					
22. A. Stapl	Late onset end nylococcus epider				is most commonly cause nes D. Propionibacterium	
22. Ans	s. D. Propioniba	cterium acne				
			appropriate d	dings revealed realing to give him?  profloxacin	nal failure with increased  D.Benzyl penicillin	
23. Ans	. B. Erythromycin					
	False about pnule aids in virulent ilkely cause of m		B. Commonest D. It is bile ser	cause of otitis med	ia and pneumonia	
24. Ans	. C. Least likely ca	ause of meningitis				
	False about C.o production is chr to heart and neu	omosome mediate	d	B. Damage by to D.More common	•	
25.	Ans. A. Toxin pro	oduction is chromos	some mediated			
<u>FM1</u>	<u> </u>					
1.		ought to casualty	with reports	of violent shaking	by parents. Most charact	teristic
<b>injury i</b> A. Long	s? bone fracture	B. Ruptured splee	en C. Sul	bdural hematoma	D. Skull bone fracture	
1. Ans.	C. Subdural her	natoma				
2. A. Magn	<b>Gun powder or</b> lifying lens	clothing can be B. UV rays		? rared rays	D. Dye	
2. Ans.	C. Infrared rays					
	<b>Signature fract</b> essed skull fractur ter coupe injury		•	acement fracture foramen magnum		
3. Ans.	A. Depressed sku	ll fracture				
4. A. ecsta	Rave drug is?	B. Cocaine	C. He	roin	D. Amphetamine	
4. Ans.	A. ecstasy					

В. С.	Sparrow marks Gunshot injuries Stab injury of face Vitriolage Windshield glass injury			
5.	Ans. D. Windshield glas	ss injury		
		examination tachycardia	th bluish pigmentation o & hypotension after on	f conjunctiva, mucous e hour of ingestion of poison.
	Mercury	B. Arsenic	C. Lead	D. Copper
6.	Ans. B. Arsenic			
7. A.	<b>A poison which</b> Iodine	<b>is illuminous, transluce</b> B. Ammonium bromide		D. Yellow phosphorous
7.	Ans. D. Yellow phospho	rous		
8. A.	Auto-Rikshaw i Contact bruise		there is a mark of the ty C. Imprint abrasion	<b>re tracks, it is an</b> D. Pressure bruise
8.	Ans. B. Patterned bruis	е		
	<b>Dental number</b> FDI two digit system Palmer notation	ing is done by all except	B. Anatomic and diagrama D. Harder acrogenic meth	
9.	Ans. D. Harder acroger	ic method		
1.	An investigato		ctors presence or absen	ce of which co-relates with the
Α.	ANOVA Multiple logistic regress		B.Multiple linear regression. D.Kruskal willis test	on
1.	Ans. B. <b>Multiple linear</b>	regression		
	Which is not tru Cholestrol less then 100 Fat intake 10% of total	) mg/day	on recommendation in hi B.Avoid alcohol D.Salt restriction less than	i <b>gh cardiovascular risk group?</b> n 6 gm/day.
2.	Ans. B.Avoid alcohol			
3. A.	All the followin Social reforms	g Reforms have been pr B.Leadership reforms	<b>coposed in world health r</b> C .Policy reforms	
3.	Ans. D.Economic reform	ns		
	According Mcke Increased awareness a Behavioural modification	nd knowledge	n mortality due to TB is on B. Medical advancement D. Social and environmen	•
4.	Ans. D. Social and envi	ronmental factor		
5. A.	Orthotolidine to Chlorine	est is used for assessing B. Nitrites	concentration- C. Nitrates	D. Fluorine
5.	Ans. A. Chlorine			
6. A.	Which of the fo	<b>llowing does not cause</b> B. Nitrous oxide	indoor air pollution? C. Radon	D. Mercury vapor

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D. Omega-3 fatty acids

6. Ans. B. Nitrous oxide Most important and potential agent that can be used in bioterrorism: B. Small pox C. Mycobacterium tuberculosis D. Clostridium botulinum A.Yersinia pestis 7. Ans. B. Small pox Which insect among the following is not resistant to DDT? B. Phlebotomus A. Musca domestica C. Cullex fatigans D. Anopheles stephenci 8. Ans. B. Phlebotomus All are true about biomedical waste disposal except: A. Human anatomical waste is disposed in a yellow bag B. Red bag contents can be a potential source of infection C. Black bag is used for incineration ash D. Blue bag contents are disposed in secure landfill 9. Ans. D. Blue bag contents are disposed in secure landfill A graph of normal blood sugar level curve and diabetic blood sugar level curve was shown. An area was seen overlapping towards the normal glycemic curve. A point at 120 mg/dl was shown too. Question: what does that area represent? B. False positive A. True positive C. True negative D. False negative 10. Ans. D. False negative All are part of National screening programmes except? A. Diabetes mellitus B. Dental caries C. Refractive errors D. Carcinoma cervix 11. Ans. B. Dental caries Carrier state is not important in transmission of: B. Typhoid D. Diphtheria A. Measles C. Polio 12 Ans. A. Measles **Denominator in maternal mortality rate?** A. Total number of live births B. Total number of married women C. Total number of births D. Midyear population 13. Ans. A. Total number of live births A population is divided in relevant subgroups & samples were selected randomly from these sub groups. What type of sampling was done? B. Stratified sampling A. Simple random sampling C. Cluster sampling D. Systematic sampling 14. Ans. B. Stratified sampling Pearson's skewness coefficient is? 15. A. Mean-Mode/SD B. Mode-Mean/SD C. SD/Mean-Mode D. SD/Median-Mode 15. Ans. A. Mean-Mode/SD About human development index, all are true except? A. Life expectancy at birth B. Life expectancy at 1 year of age C. Education D GDP 16. Ans. B. Life expectancy at 1 year of age Efficiency of pasterurized milk is assessed by-B. Methylene Blue test D. Oxidase test A. Phosphatase test C. Catalase test 17. Ans. A. Phosphatase test

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C. Oleic acid

Which among the following is a cardioprotective fatty acid?

B. Stearic acid

18

A. Palmitic acid

18. Ans. D. Omega-3 fatty acids

### Which is non deleberate measures for control of mosquito? A. Use of alkalinity causing soaps B. Efforts by community to prevent development of environment suitable for mosquitoes. C. Use of larvicidals D. Use of bed nets for mosquito 19. Ans. A. Use of alkalinity causing soaps False regarding Japanese encephalitis is: 20. A.During Epidemics 2-3 cases in a village are seen B. Bite from infected mosquito is always associated with disease C.About 70% of patients are children below 5 year age. D. Overt disease to inapparent cases ratio is 1:100 20. Ans. B. Bite from infected mosquito is always associated with disease Arthropod transmitted disease not found in india? D. Sandfly fever A. West nile fever B. Dengue C. Yellow fever 21. Ans. C. Yellow fever 22. Most useful indicator for acute illness A.Case fatality rate B.Standardized mortality ratio C. Case specific death rate D. Fiver year survival 22. Ans. A.Case fatality rate 23. Direct standardisation is used to compare the mortality rates between two countries. This is done because of the difference in: A.Causes of death B.Numerators C.Age distribution D.Denominators 23. Ans:C Age distributions **ENT** Odoni cells and Haller cells are associated with the following structures respectively? A. Optic nerve and Orbital floor B. Optic nerve and Internal carotid artery C. Optic nerve and Ethmoidal air cells D. Orbital floor and Internal carotid artery 1. Ans. A. Optic nerve and Orbital floor Pain sensation from the ethmoid sinus is carried by : A. Frontal nerve B. Lacrimal nerve C. Nasociliary nerve D. Infraorbital nerve 3. Ans. C. Nasociliary nerve A 5 year old boy while having dinner suddenly becomes aphonic and is brought to the casulty for the complaint of respiratory distress. What should be the next management? A. Cricothyroidotomy B. Emergency tracheostomy C. Humidified oxygen D. Hemlich maneuver 3. Ans. D. Hemlich maneuver Acoustic neuroma involves A. Superior vestibular division of 8th cranial nerve B. Auditory part of 8th cranial nerve D. Inferior vestibular division of 8th cranial nerve C. 7th cranial nerve

A. 24 hrs B. 12 hrs C. 6 days D. 12 days

Time of occurrence of secondary hemorrhage after tonsillectomy?

4. Ans. D. Inferior vestibular division of 8th cranial nerve

5. Ans. C. 6 days

6. True regarding ranula?

A. It is also known as epulis

B. It is a cystic swelling in the floor of mouth

C. It is a type of thyroglossal cyst D. It is a type of mucus retention cyst

6. Ans. B. It is a cystic swelling in the floor of mouth

## 7. All are true statements regarding use of sodium fluoride in the treatment of otosclerosis except?

A. It inhibits osteblastic activity.

- B. Used in active phase of otosclerosis when schwartz sign positive.
- C. Has antienzymatic action on proteolytic enzymes toxic to cochlea.
- D. contraindicated in renal failure patients.
- 7. Ans. A. It inhibits osteblastic activity.

8. Endolymphatic Hydrops is seen in

A. Meniere's disease B.Otosclerosis C.Acoustic neuroma D.Cholesteatoma

8. Ans: A Meniere's disease

### **OPHTHALMOLOGY**

1. All are seen in Argyl Robertson pupil except?

A. Near reflex normal

C. Consensual light reflex normal

B. Direct light reflex absent

D. Visual Acuity normal

1. Ans. C. Consensual light reflex normal

2. A young patient presents to ophthalmology clinic with loss of central vision. There is no obvious family history. ERG were observed to be normal. Which is most probable diagnosis-

A.Best's disease B. Stargardt's disease C. Retinitis pigmentosa D. Macular hole

2. Ans. B. Stargardt's disease

3. Damage to nerve supplying Superior oblique muscle causes diplopia in which direction

A. Horizontal and downwards
C. Horizontal and upwards
D. Vertical and upwards

3. Ans. B. Vertical and downwards

4. A patient had running nose and pain over medical aspect of eye being treated with decongestants for many days. He later developed chemosis, proptosis and diplopia on abduction of right eye with congestion of optic disc. What is the probable diagnosis?

A. Acute ethmoidal sinusitis

B. Orbital cellulitis

C. Cavernous sinus thrombosis D. Orbital apex syndrome

4. Ans. C. Cavernous sinus thrombosis

5. A 5 yr old boy presented with leukocoria in right eye ball which is diagnosed as diffuse retinoblastoma involving the entire globe, while other eye had 2-3 small lesions in the periphery. What will be the ideal management for this patient?

A. Enucleation of both eves

- B. Enucleation of right eye & conservative management for the other eye
- C. Enucleation for right eye and Focal therapy for the other eye
- D. 6 cycles of chemotherapy
- 5. Ans. C. Enucleation for right eye and Focal therapy for the other eye

6. A tennis player gets hit by a ball on the eye, following which he has complaints of decreased vision. which of the following suggests that injury is due to trauma-

A. Optic neuritis B. Pars planitis C. Vitreous base detachment D. Equatorial edema

D. Macular hole

6. Ans. C. Vitreous base detachment

7. Most common malignant cause for bilateral proptosis in children?

A. Lymphoblastic lymphoma B. Rhabdomyosarcoma C. ALL D. AML

7. Ans. D. AML

8. Which of the following most commonly presents with bilateral proptosis in children?

A. Cavernous haemangioma B. Chloroma C.Fibrous Histiocytoma D.Pleomorphic Adenoma

8. Ans. B. Chloroma

9. A patient presented with sudden onset of floaters and sensation of falling of a curtain in front of the eye. Which one of the following is the appropriate diagnosis?

A. Retinal detachment B. Eales disease C. Vitreous haemorrhage

9. Ans. A. Retinal detachment

10 Ophtalmoplegic migraine is defined by-

A. Headache with irreversible lose of ophthalmic nerve function

B.Recurrent transient 3<sup>rd</sup> nerve palsy associated with headache

C. Recurrent transient 3<sup>rd</sup>,4<sup>th</sup> & 6<sup>th</sup> nerve palsy associated with headache

D. Head ache with optic neuritis

10. Ans: C. Recurrent transient 3<sup>rd</sup>,4<sup>th</sup> & 6<sup>th</sup> nerve palsy associated with headache

11. Which of the following drug is not used for medical treatment of diabetic retinopathy?

A.Tamoxifen B.Benfotiamine C.Pyridazinones D.Ruboxisaturin

11. Ans: A. Tamoxifen

### <u>MEDICINE</u>

1. A girl presented with recurrent occipital headache associated with ataxia and vertigo. Mother also has similar complaints. Most probable diagnosis is?

A. Vestibular neuronitis B. Basilar migraine

ar migraine C. Tension head ache

D. Cluster head ache

D. Meningitis

1. ANs. B. Basilar migraine

2. A 32 year old mountaineer has a hematocrit of 70%. What is the possible explanation?

A. Polycythemia with relative dehydration

B. High altitude cerebral oedema

C. High altitude pulmonary oedema

D. Hemodilution

2. Ans. A. Polycythemia with relative dehydration

3. Tetracycline is used in the prophylaxis of which of the following diseases?

A. Cholera B. Brucellosis C. Leptospirosis

3. Ans. A. Cholera

4. Punnett square is used for -

A. Finding genotype of offspring B. Statistical analysis

C. Anatomical surface area of human body D. Diseased & non diseased individuals

4. Ans. A. Finding genotype of offspring

5. Cavitation is seen in?

A. Mycolplasma pneumonia
C. Streptococcal pneumonia
D.Staphylococcus pneumonia

5. Ans. C. Streptococcal pneumonia

### 6. In pseudohyperparathyroidism, true is?

A. Gain of function mutation in Gsa B. Decreased conversion of GTP to GMP

C. Decreased inositol tri phosphate production D. Decreased formation of cAMP

6. Ans. D. Decreased formation of cAMP

### 7. Difference between follicular carcinoma and follicular adenoma is?

A. Vascular invasion B. Mitosis C. Nuclear pleomorphism D. Tubule formation

7. Ans. A. Vascular invasion

### 8. Which among the following is used for diagnosis of anti phospholipid antibody syndrome

A.Beta 2 microglobulin antibody B. Anti nuclear antibody

C. Anti centromere antibody

D. Anti beta 2 glycoprotein antibody

8. Ans. D. Anti beta 2 glycoprotein antibody

### Which is the most reliable objective sign of identifying pulmonary plethora in chest X-ray?

A. Diameter of the main pulmonay artery >16mm

B. Diameter of the left pulmonay artery >16mm

C. Diameter of the descending Right pulmonay artery >16mm

D. Diameter of the descending Left pulmonay artery >16mm

9. Ans. C. Diameter of the descending Right pulmonay artery >16mm

### 10. Necrotizing lymphadenitis is seen in?

A. Kimura disease B. Kikuchi disease C. Hodgkin disease D. Castelman disease

10. Ans. B. Kikuchi disease

### 11. NARP syndrome is seen in?

A. Mitochondrial function disorder
C. Lysosomal storage disorder
D. Lipid storage disorder

11. Ans. A. Mitochondrial function disorder

### 12. Superior vena cava syndrome is most commonly caused by?

A. Lymphoma B. Small cell lung ca C. Non small cell lung ca D. Secondary tumours

12. Ans. B. Small cell lung ca

### 13. Which of the following is not included in parenteral nutrition?

A. Fat B. Carbohydrate C. Fibres D. Micronutrients

13. Ans. C. Fibres

### 14. All are true about pheochromocytoma except?

A. 90% are malignant B. 95% occur in the abdomen

C. They secrete catecholamines D. They arise from sympathetic ganglions

14. Ans. A. 90% are malignant

### 15. Intraoperative myocardial infarction is best diagnosed by:

A. ECG B. Invasive arterial pressure

C. Central venous pressure D. Trans Esophageal echocardiography

15. Ans. D. Trans Esophageal echocardiography

### 16. ECG is poor at detecting ischaemia in areas supplied by?

A. Left anterior descending B. Left circumflex C. Left coronary artery D. Right coronary artery

16. Ans. B. Left circumflex

# 17. A patient with history of discharge from right ear for past 1 year presented with severe ear ache. The discharge was cultured and the organism was found to be gram positive cocci .CT scan shows

ring enhancement The least likely cause is? A. Psuedomonas B. Streptococcus pneumoniae C. Staphylococcus D. Haemophilus influenza 17. Ans. B. Streptococcus pneumoniae A 15 day old baby came with history of seizures. Blood tests revealed Ca 5mg/dl, PO4 9mg/dl, PTH 30pg/ml (n=10-60). What is the most probable diagnosis? A. Pseudohypoparathyroidism B. Vitamin D deficiency C. Hyperparathyroidism 18. Ans. A. Pseudohypoparathyroidism Which among the following not used in diagnosis of insulinoma? D. Insulin / glucose ratio A. Fasting glucose test B. Xylulose test C. C peptide levels 19. Ans.B. Xylulose test All are true about Nesidioblastosis except? A. Hypoglycemic episodes are seen B. Occurs in adults more than children C. Histopathology shows hyperplasia of islet cells D. Diazoxide is used for treatment 20. Ans. B. Occurs in adults more than children Gold standard test for diagnosis of laryngopharyngeal reflux? A. 24 hr double probe pH monitoring B. Flexible endoscopy C. Barium swallow D. Laryngoscopy 21 Ans. A. 24 hr double probe pH monitoring Least common cause of ambiguous genitalia in a female child? A. Placental steroid sulfatase deficiency B. Fetal aromatase deficiency C. WT-4 mutation D. CAH 22. Ans. A. Placental steroid sulfatase deficiency What will you give to treat hypothyroidism in a patient with ischemic heart disease? 23. A. Low dose of levothyroxine B. Normal dose of levothyroxine C. Do not give levothyroxine D. Thyroid extract 23. Ans. A. Low dose of levothyroxine A 35 year old female has proximal weakness of muscles, ptosis and easy fatiguability. The best test to diagnose her condition is: A. Muscle biopsy B. CPK C. Edrophonium test D. EMG 24. Ans. C. Edrophonium test Compliance is decreased in all except A. Pulmonary congestion B. COPD C. Decreased surfactant D. Pulmonary fibrosis 25. Ans. B. COPD A 70yr old presents with intemittent jerks of recent origin, EEG showing bilateral periodic spikes. What is the most probable diagnosis? A. Hepes simplex encephalitis B. Lewy body dementia C Alzheimer's D. CJD 26. Ans. D. CJD Not a disorder of protein misfolding? A. Alzheimer's disease B. Tuberculosis C. Cystic fibrosis D. CJD 27. Ans. B. Tuberculosis A 12 year old male presents with hemetemesis, melena and splenomegaly. What is the most probable diagnosis? A. NCPF B. Cirrhosis C. Malaria with DIC D. Extra hepatic portal venous obstruction 28. Ans. D. Extra hepatic portal venous obstruction

### 29. About diabetes insipidus all true except

A.Water deprivation test is diagnostic.

B.Before doing test first correct hypoaldosteronism.

C.Hypothyroidism does not affect the diagnostic test. D.Pre test serum osmolarity 288 (should be in normal range)

29. Ans. C. Hypothyroidism does not affect the diagnostic test.

30. Poor prognostic factor for ALL is?

A. Hyperdiploidy B. t(9;22) t(4;11) C. 2-8 yrs of age D. TLC < 50000

30. Ans. B. t(9;22) t(4;11)

## 31. The acid base status of a patient is as follows: pH - 7.45, pCO2 - 30 mm of Hg, pO2 - 105 mm of Hg. Patient has partially compensated?

A. Metabolic acidosis B. Metabolic alkalosis C. Respiratory acidosis D. Respiratory alkalosis

31. Ans. D. Respiratory alkalosis

32. A man connected to a body plethysmograph exhales against a closed glottis. What will be the finding?

A. The pressure in both the lungs and the box increases

B. The pressure in both the lungs and the box decreases

C. The pressure in the lungs decreases, but that in the box increases

D. The pressure in the lungs increases, but that in the box decreases

Ans. C. The pressure in the lungs decreases, but that in the box increases

33. Clue Cells are seen in:

A. Bacterial vaginosis
C. Chlamydial vaginosis
D. Trichomoniasis

33. Ans. A. Bacterial vaginosis

34. HbH is seen in?

A. Deletion of 3 alpha gene
C. Deletion of 3 beta genes
D. Deletion of all 4 beta genes

34. Ans. A. Deletion of 3 alpha gene

35. A 50 yr lady has history of sprained ankle 2 months back followed by recovery. She now complains of severe pain in that ankle with inability to flex that foot. Physician notes edema and shiny skin in local examination. What is the probable diagnosis:

A. Fibromyalgia B. Complex regional pain syndrome 1

C. Complex regional pain syndrome 2 D. Peripheral neuropathy

35. Ans. B. Complex regional pain syndrome 1

36. Which among the following is an early sign of magnesium toxicity?
 A. Depression of deep tendon reflexes
 B. Respiratory depression
 C. Cardiac arrest
 D. Decreased urine output

36. Ans. A. Depression of deep tendon reflexes

37. True about gastric carcinoma is?

A. Occult bleeding in stool is not seen B. associated with achlorhydria/hypochlorhydria

C. Always squamous cell carcinoma D. Radiosensitive

37. Ans. B. associated with achlorhydria/hypochlorhydria

38. True in keto acidosis is.

A. Decreased HCO3 B. Increased levels of lactate C. Glucose level <250 mg/dl D. Normal anion gap

38. Ans. A. Decreased HCO3

39. In 7 yr old following Sx for craniopharyngioma hormone first to be given

A. Growth hormone B. Steroids C. Prolactin D.Thyroxine

39. Ans. B. Steroids

40. A Patient presents with high TA.Grave's disease B.Hashi		e the probable diag itary failure	nosis? D.Hypothala	amic failure
40. Ans:B.Hashimoto's disease				
41. Blood examination of a Patien following investigation is least con A. Urine myoglobin B. CAM		levated phosphorus		PTH. Which of the S. Creatinine levels
41. Ans. C. Vitamin D levels				
SURGERY  1. A 40yr old patient has a sthe following is the best course of A. Partial nephrectomy C. Radical nephrectomy with imme		B. Radical nephre		
1. Ans. A. Partial nephrectomy				
2. In a 5 year old child the b A. 1% B. 5% 2. Ans. A. 1%	ourn area corresponding to C. 10%		equal to D.20%	
3. Most common site of obst A. Navicullar fossa B. Bulb		nbranous urethra	D.	Bladder neck
3. Ans. D. Bladder neck				
4. A young male was brough protruding in the umbilical area th 110/80,.The next step in the mana A.FAST B.Laparotomy 4. Ans. C.Wound exploration & rep	agement of the patient is: C.Wound exploration & re	e stable, heart rate	80 bpm & bl	
5. Renal calculi associated w A. Uric acid B. Triple 5. Ans. B. Triple phosphate	vith proteus infection is: e phosphate	C. Calcium oxlala	te D.	Xanthine
	a contraindication for medi olucent stones C. Norr	ical treatment in ga mal functioning gall		). Small stones
7. Which organ obtained fro A. Blood vessel B. Lung 7. Ans. D. Bladder	m a cadaver is not used fo C. Live	•	D. Bladder	
8. A young sewage worker was, vomiting , fever & shock. His hear minute . His clinical features are su A. Immediately take the patient for B. Take the patient for Diagnostic C. Insert an abdominal drain under D. Resuscitate the patientwith I.V. laprotomy	iggestive of peritonitis .Wh or laparotomy under GA or laparoscopy & then expl or LA and then for explorato	ory rate is 30/min and is the next step oratory laprotomy ory laprotomy	& blood press of managem	sure is 100/70 per
8. Ans. D.Resuscitate the patientw laprotomy	rith I.V. fluid &oxygen,ther	shift patient for ex	kploratory	
9. A patient with head injury and pain localisation. Calculate GC A. 10 B. 8 9. Ans. A. 10	on examination revealed CS?	eye opening in resp	ponse to pair D. 14	n, inappropriate words
10. A 5 year old child present What is the best treatment for him A. Adhesiolysis and dilatation	eed with ballooning of perp n? B. Circumcision	uce while micturitio	on. Perpuce a D. Conserva	

10. Ans. B. Circumcision During TURP, surgeon takes care to dissect above the verumontenum so as to prevent injury to? A. External urethral sphincter B. Urethral crest C. Prostatic utricle D. Trigone of bladder 11. Ans. A. External urethral sphincter Best treatment option for genuine stress incontinence? A. Burch colposuspension B. Kelly's procedure answer C. Sling operation D. Tension free vaginal taping 12. Ans. D. Tension free vaginal taping A patient presents with fever and abdominal pain. Clinical examination reveals hepatomegaly extending 4 finger breadths below the costal margin. USG & CT reveals a 4cm\*5cm\*4cm hypoechoic & hypodense lesion 1cm deep to liver surface. Tests for hydatid disease were -ve. Best course of action is? A. Resection of affected lobe B. Multiple percutaneous aspirations and metronidazole injection in right lobe C .Metronidazole therapy only D.Surgical drainage of abscess & metronidazole therapy 13. Ans. C .Metronidazole therapy only A lady who presented with hematuria on evaluation was found to have stage 2 transitional cell carcinoma of bladder. Which of the following is true? A. 70% chance of requiring cystectomy in 5 yrs B. Cystoscopic fulguration required in c/o recurrence C. A 10 year history of beedi smoking is not a risk factor D. There is no role of chemotherapy 14. Ans. A. 70% chance of requiring cystectomy in 5 yrs Medical treatment for variceal bleed is by? A. Octreotide B. Pantaprazole C. Desmopressin D. Somatotrophin 15. Ans. A. Octreotide A 55 year old man presents with history of 5 episodes of hematuria each lasting for about 4-5 days associated with clots in the past 5 years. What will be the best investigation to arrive at a diagnosis? A. Urine examination and microscopy B. X-rav KUB C. Abdominal USG 16. Ans. A. Urine examination and microscopy A 50yr old patient presents with 2 yrs h/o recurrent abdominal pain, radiating to back, relived only by parenteral analgesic. This time pain is severe & radiating to back ,appropriate treatment procedure is? A.vagotomy with Gastroduodenostomy B. vagotomy with antrectomy C.whipple procedure D.Longitudinal pancreaticojejunostomy 17. Ans D.Longitudinal pancreaticojejunostomy Q.18 Multiple sebaceous cysts seen in: A. Gardner's syndrome B. Turcot syndrome C. Muir Torre syndrome D. Cowden syndrome 18. Ans: A Gardner's syndrome Q.19.A Patient presents with epigastric pain which radiates to the back and relieved by food, patient have history of such pain in past for which he was taking analgesics and in past 5 years 2 times operated for duodenal ulcer.Pain before & after surgery has been controlled with proton pump inhibitors. What could be probable diagnosis-A. Gastric ulcer B. Dudenal ulcer C. Chronic pancreatitis D. Atrophic gastritis 19. Ans: Duodenal Ulcer Q.20. Patient having pain in epigastrium which radiates to back, serum amylase is normal, USG abdomen reveals gall stone and bulky pancreas.CT scan was done, which clinched the diagnosis. The scenario is suggestive of-

A.Acute Pancreatitis

20. Ans: A. Acute Pancreatitis

<u>PAEDS</u>

**1.** Earliest symptom of GERD which becomes pathological in an infant is?

B.Acute cholecyctitis

A. Respiratory distress B. Upper GI bleed C. Regurgitation & Vomiting D.Food bolus obstruction

C.Duodenal ulcer

D. Acute Appendicitis

### 1. Ans. C. Regurgitation & Vomiting

It is common for infants to spit up after a meal, **but frequent vomiting among infants may be caused by GERD (gastroesophageal reflux disease),** the upward movement of stomach content, including acid, into the esophagus and sometimes into or out of the mouth. Older children also can be affected

In normal reflux infant just spit up after meal doesnot vomit & regurgitate. If vomiting & regurgitation present it is pathological sign. Respiratory distress is late sign.

2. Most important prognostic factor in congenital diaphragmatic hernia?

A. Pulmonary hypertension

B. Timing of surgery

C. Size of defect

D. Gestational age at which child was born

2. Ans. Pulmonary hypertension

3. A child presented with fever, mild breathlessness & non-productive cough. She was treated with course of antibiotics and she improved over 4 days and later deteriorated again with fever and more breathlessness. Chest x ray showed hyperlucency. Pulmonary function test was suggestive of obstructive airway disease. The probable diagnosis would beA. Bronchiolitis obliterans

B. Alveolar proteinosis

C. Post viral syndrome

D. Asthma

3. Ans. A.Bronchiolitis obliterans

4. Which among the following is the most common tumour associated with neurofibromatosis in a child?

A. Juvenile myelomonocytic leukemia
C. Acute monocytic leukemia
D. Acute myeloid leukemia

4. Ans. A. Juvenile myelomonocytic leukemia

About 80% of JMML patients have some sort of <u>genetic abnormality</u> in their leukemia cells that can be identified with laboratory testing. This includes:

- 15-20% of patients with <u>neurofibromatosis 1</u> (NF1)
- 25% of patients with <u>mutations</u> in one of the <u>RAS</u> family of <u>oncogenes</u> (only in their leukemia cells)
- Another 35% of patients with a mutation in a gene called <u>PTPN11</u> (again, only in their leukemia cells).
- 5. A 3.8 kg baby of a diabetic mother developed seizures 16 hours after birth. Most probable cause is?
  A. Hypoglycemia B. Hypocalcemia C. Birth asphyxia D. Intra ventricular hemorrhage
- 5. Ans. A. Hypoglycemia Hypocalcemia after 72 hours
- 6. Most common cause of meningoencephalitis in children?

A. HSV B. Enterovirus C. Mumps D. Listeria

- 6. Ans. Enterovirus
- 7. Baby born at 33 weeks with body weight1.5 kg should be started on?

A. oral and IV fluids

- B. Oral nasogastric tube / alternate oral route
- C. IV fluids and assessment.
- D. TPN
- 7. Ans. B. Oral nasogastric tube / alternate oral route
- 8. A 6 year old child presents with pain in hip in femoral triangle region & limitation of movments. X-ray does not reveal any abnormality. What is the next step?

A. USG B. MRI C. Aspiration D. Traction

8. Ans.MRI

Diagnosis is -Perthe's disease

9. Ideal age for surgery in unilateral undescended testis is?

A. 6 months B. 12 month C. 24 months D. 36 months

9. Ans. A. 6 months

10. Pentalogy of fallot has which one of following entities:

A. ASD B. Coarctation of aorta C. LVH D. PDA

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10. Ans. A. AS
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11. A child presents with abdominal pain only during passage of stools. No other symptoms like vomiting or blood in stools. There are no signs of intestinal obstruction. Most probable diagnosis is?

A. Rectal polyp

B. Intussusception

C. Meckels diverticulum

D. Necrotising enterocolitis

11. Ans. A. Rectal polyp

12. coarctation of aorta most commonly associated with

A.Bicuspid aortic valve B.PDA C. VSD D.ASD

12. Ans. A.Bicuspid aortic valve

13. A 8 days old male infant was brought in a state of dehydration and shock. Examination revealed hyper pigmentation over the body with normal external genitalia. Blood tests revealed hypoglycemia, Na - 124 mEq/L and K - 7 mEq/L. What is the probable diagnosis?

A. Congenital adrenal hyperplasia

B. Adrenal haemorrhage and shock

C. Acute gastroenteritis with dehydration

D. Hyper aldosteronism

13. Ans. A. Congenital adrenal hyperplasia

14. A neonate delivered at 38 weeks of gestation, birth weight of 2.2kg develops intolerance to feeds on 2nd day. Physical examination reveals no abnormalities. Sepsis screen in negative. And PCV is 70%. What is the next step in management?

A. IV fluid

B. Presumptive trearment of sepsis

C. Exchange transfusion

D. Repeat sepsis screen

14. Ans:C Exchange transfusion

15. 1yr old child present with growth failure,dry skin and palpable thyroid,with low thyroid harmones and a high TSH, what is cause?

A.Thyroid Dyshormonogenesis

B.Thyroid Dysgenesis

C. Central Hypothyroidism

D. TSH Receptor blocking antinody

Ans. A.Thyroid Dyshormonogenesis

### Obstt& Gyne

1. In expectant management of placenta praevia, all are done except?

A. Cervical encirclage

B. Anti D administration

C. Corticosteroids administration

D. Blood transfusion

1. Ans. A. Cervical encirclage

2. Best test/Gold standard test for assesing HCG function

A. Radioimmunoassay B. ELISA C. Latex test D. Bioassay

2. Ans. A. Radioimmunoassay

3. Causes of primary amenorrhoea are all except?

A. Rokintasky syndrome B. Kallaman syndrome C. Sheehan syndrome D.Turner syndrome

3. Ans. C. Sheehan syndrome

4. Which of the following is not a contraindication for pregnancy?

A. WPW syndrome

B. Pulmonary hypertension

C. Eisenmenger syndrome

D. Marfan syndrome with aortic root dilatation

4. Ans. A. WPW syndrome

5. Weight gain in pregnancy is related to all except?

A. Ethnicity B. Smoking

B. Smoking C. Socioeconomic status

D. Pre conceptional weight

5. Ans. B. Smoking

Regarding PCOD, all are true except?

A. High LH/FSH B. High DHEAS C.Markedly high prolactin D. Raised LH

6. Ans. C.Markedly high prolactin

AIPG-2011

Best marker for intrahepatic cholestasis of pregnancy is? A. Bile acids B. Liver enzymes(AST & ALT) C. Bilirubin D. Alkaline phosphatase 7. Ans. A. Bile acids Feature of obstructive azoospermia is? A. High FSH, high testosterone B. Low FSH, high testosterone C. High FSH, low testosterone D. Normal FSH, normal testosterone 8. Ans. D. Normal FSH, normal testosterone Which of the following contraception method is contraindicated in women with epilepsy? A. Oral Contraceptive pill B. IUCD C. Condom D. Mifepristone 9. Ans. A. Oral Contraceptive pill Low dose oral contraceptive pill contains? B. Norgestrel D. Norethihisterone A. Levonorgestrel C. Desogestrel 10. Ans. C. Desogestrel Mother to baby transwermission of HIV can be minimised by all except? 11. B. HAART C. Vaginal delivery A. Zidovudine D. Avoidance of breast feeding 11. Ans. C. Vaginal delivery A primigravida at 37 weeks of gestation presents with 1 cm dialated cervix which is uneffaced, uterine contractions & pain suggestive of labour since 10 hrs. What is management? A. Sedate the patient and wait B. LSCS C. Amniotomy D. Induction with membrane rupture 12. Ans. A. Sedate the patient and wait A primigravida in 1st trimester had sputum positive for acid fast bacillus. What is the preferred treatment? C. Category 2 DOTS A. Treatment deferred till 2nd trimester B. Category 1 DOTS D. Category 3 DOTS 13. Ans. B. Category 1 DOTS A 45 year old lady presented with DUB & USG finding of 8mm thick endometrium. What is the next step? A. Endometrial histopathology B. Hysterectomy C. OCP D. Follow up 14. Ans. A. Endometrial histopathology Fallopian tube dysmotility is seen in? A. Churg strauss syndrome B. Kartagener's syndrome C. Noonan syndrome D. Turner syndrome 15. Ans. B. Kartagener's syndrome Best marker for open nural tube defect. A.Acetylcholinesterase **B.**Pseudocholinesterase C.AFP D.HCG 16. Ans. A.Acetylcholinesterase All of the following are done in management of shoulder dystocia except? A. Maurieauceli veit maneuver B. Suprapubic pressure C. McRoberts maneuver D. Woods maneuver 17. Ans. A. A. Maurieauceli veit maneuver Which of the following are not associated with menstrual cycle? 18. C. Estrus profile D. Endometrial changes B. Vaginal cytology changes A. Hormonal changes 18. Ans. C. Estrus profile Confined Blood Chimerism is associated with? A. Dichorionic diamniotic twins B. Monochorionic diamniotic twins D. Monochorionic Monoamniotic twins C. Singleton pregnancy

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19. Ans. B. Monochorionio	diamniotic twins		
20. Which of the folk A. Ethamsylate	owing is not an evidence ba B.OCP	ased treatment for menorrh C.Tranexamic acid	agia? D. Progesterone
20. Ans. A. Ethamsylate			
B. Patient using OCP's are	discharge can be used for at higher risk for Chlamyo dia infections are asymptor	dia infection	
21. Ans. B. Patient using	OCP's are at higher risk for	Chlamydia infection	
	ith XO genotype and Prima B. Androgen insensitivity	ary amenorrhoea.What is managements of the syndrome.	
22. Ans:A Gonadal dysge	nesis		
<b>DERMATOLOGY</b> Q.1 Pseudoisomorphic pho A. Psoriasis	enomenon is seen in - B. Lichen planus	C. Vitiligo	D. Plane warts
1. Ans: D Plane warts			
Q. 2.Cicatrising alopecia v A. Nail dystrophy C. Arthritis	B. Whiti	pathches is most commonish lesion in the buccal mucoid Plaques in the face	
2. Ans: B. Whitish lesion i	n the buccal mucosa		
Q.3 Erythema nodosum is A. Pregnancy	s seen in all except: B. Tuberculosis	C. SLE	D. Chronic pancreatitis
3. Ans: D Chronic pancrea	atitis		
Q.4 . A young male prese foamy histiocytes and neu A. Sweet's syndrome C. Erythema Nodosum Le	utrophillic infiltrate in the d B. Rosa	and a nodule in the leg. Hist ermis. Most probable diagn i Dorfman disease ema nodosum	copathology of the nodule revealed osis is?
4. Ans: D.erythema nodos	sum		
	n maculopapular rash 2wee	ks after having a painless	genital ulcer.Causative organism of
the condition is: A.Treponema pallidum	B.Chlamydia	C.C.granulomatis	D.H.ducreyi
5. Ans:A Treponema pallio	dum		
<u>ANESTHESIA</u>			
1. Spinal anaesthes A. L1-2	sia is given at which level? B. L3-4	C. S1	D. Midline thoracic segments
1. Ans. B. L3-4			
<ol> <li>Epileptic potentia</li> <li>Desflurane</li> </ol>	al is present in B. Halothane	C. Sevoflurane	D. Ether
2. Ans C. Sevoflurane			
3. Which of the folloposted for cholecystectom A. Ketamine		ontraindicated in a patient	with hypertension who is being  D. Midazolam
A. Netallille	b. riupuiui	C. Littillidate	D. Piluazolatti

D. Mannitol

3. Ans.	A. Ketamine					
		l opioids are all except? ostantia gelatinosa creased	B. Can cause It D. Can cause re		pression	
4. Ans.	C. Intestinal motil	ity is decreased				
	A fire breaks out one in managemer ing sterile water in				general anaesthesia. Wh	at is not
		continuing anesthetic gase		_	steroid & antibiotic	
5. Ans.	C. 100% oxygen a	after discontinuing anesthe	tic gases			
6. A. Gene	Which anesthetic eral anesthesia	modality is to be avoided B. Brachial plexus block			D. Spinal	
6. Ans	C. IV regional anes	sthesia				
by (to p	ve events & was ve prevent such instar	male underwent surgery. Po ery discomfortable feeling nces from occurring)?	about that . Indi	vidual intrao	perative awareness is ev	
	e oximetry		C. Bispectral in	dex L	. End tidal CO2	
	C. Bispectral index					
A. Anap C. Thyr	rise in end tidal C	male was undergoing thyro		perthermia		ere was
9.	An anesthesia re	sident was giving epidural	anaesthesia whe	n the patient	: had sudden aphonia and	d loss of
A. Total	usness. What could spinal anaesthesi vagal attack	d have happened? a	B. Anaphylaxis D. Intra vessel	injection		
9. Ans.	C. Vaso vagal atta	ack				
10. A. Naso	All are" Definitive tracheal tube	e" airway except? B. Orotracheal tube	C. LMA	D. Cricoth	yroidotomy	
10. Ans	. C. LMA					
11. A. Finge		nt with vasoconstrictor prop B. Spinal block C. Epidu			e anaesthesia for broncho	scopy
11. Ans	. A. Finger block					
RADIO	<u>LOGY</u>					
1. A. MRI	The distant meta	stasis of bone can be best B. Bone scan	detected by: C. CT	D. Intrave	nous venogram	
1. Ans.	B. Bone scan					
2. A. 2 to		required for development B. 10 Gy	of haematologic C. 100 Gy	al syndrome D. 200 Gy		
3. Ans.	A. 2 to 5 Gy					
3.	Which among the	e following is preferred in a	patient with ded	reased renal	function to avoid contra	ast

B. Fenoldopam C. Low osmolar contrast media

nephropathy?

A. N acetylcysteine

- 3. Ans. C. Low osmolar contrast media
- 4. Earliest to be diagnosed by USG is?

A. Anencephaly B. Prosencephaly C. Meningocele D. Spina bifida

4. Ans. A. Anencephaly

5. Aortic knob shillouette on chest X ray, PA view is obliterated by consolidation of which portion of lung?

A. Apicoposterior segment of left upper lobe

B. Superior lingual segment of left upper lobe

C. Apical segment of left lower lobe D. Inferior lingular segment of left upper lobe

- 5. Ans. A. Apicoposterior segment of left upper lobe
- 6. CT scan is least accurate for diagnosis of:

A. 1 cm size aneurysm in hepatic artery B. 1 cm size lymph node in para aortic region

C. 1 cm size mass in tail of pancreas D. 1 cm size gall stone

6. Ans. D. 1 cm size gall stone

7. Differentiating feature of ASD from VSD in Chest X-ray?

A. Pulmonary hypertension B. Absence of left atrium enlargment

C. Pulmonary congestion D. Aortic shadow

- 7. Ans. B. Absence of left atrium enlargment
- 8. Which of the following is true about contrast radiography

A.In conventional monomeric iodinated contrast media the iodine molecule to solute particle ratio is 3:2.

B.Injection into artery is associated with 3 times more complication than injection into a vein

C.Test dose should be performed if a contrast reaction is suspected

D.Gadolinium DTPA crosses blood brain barrier

8. Ans. A. In conventional monomeric iodinated contrast media the iodine molecule to solute particle ratio is 3:2

### **PSYCHIATRY**

1. Antidepressant drug that can be used in nocturnal eneursis, ADHD & chronic pain

A. Imipramine B. Fluoxamine C.Bupropion D.Fluvoxamine

- 1. Ans. A. Imipramine
- 2. A female patient presented with depressed mood, loss of appetite and no interest in surroundings. There is associated insomnia. The onset of depression was preceded by a history of business loss and immediately soon after it she developed the following symptoms for the past 1 year. Which of the following is true-
- A. No treatment is necessary as it is due to business loss
- B. SSRI is the most efficacious of the available drugs
- C. Start antidepressant drug treatment based on side effect profile
- D. Combination therapy of 2 anti depressant drugs
- 2. Ans. C. Start antidepressant drug treatment based on side effect profile
- 3. Regarding an imbecile, all are true except?

A. IQ is 50-60 B. Intellectual capacity equivalent to a child of 3-4 years of age

C. Not able to take care of themselves D. Condition is congenital or acquired at an early age

3. Ans. A. IQ is 50-60

4. Maintenance dose of which of the following drugs is used worldwide for opioid dependence?

A. Naloxone B. Methadone C. LAAM D. Pethidine

4. Ans. B. Methadone

5. Most common Cause of premature death in schizophrenia?

A. Homicide B. Suicide C. Toxicity of antipsychotic drug D. Hospital acquired infections

5. Ans. B. Suicide

6. Which among the following is not used to treat alcohol dependence?

A. Flumazenil B. Acamprosate C. Naltrexone D. Disulfiram

- 6. Ans. A. Flumazenil
- 7. All are true about delirium tremens except?
- A. Visual hallucinations B. Coarse tremors C. Third Nerve palsy D. Confusion
- 7. Ans. C. Third Nerve palsy
- 8. Mr X is a chronic smoker. His family insists on quitting smoking. He is thinking about quitting, but is reluctant to do so because he is worried that on quitting he will become irritable. According to health belief model state of patient is?

A. Precontemplation and preparation

- B. Contemplation and extent of sickness susceptability
- C. Contemplation and cost
- D. Precontemplation and cost
- 8. Ans. C. Contemplation and cost

#### Ortho

- 1. A 65 yrs old lady presented with a swollen and painful knee. On examination, she was found to have grade III osteoarthritic changes. What is the best treatment option?
- A. Conservative management
- B. Arthroscopic washing
- C. Partial knee replacement
- D. Total knee replacement
- 1. Ans D. Total knee replacement

Grade III always do total knee replacement.

- 2. Most common nerve injured in supracondylar fracture humerus?
- a. Median b. Radial c. Ulnar d. Anterior interosseus nerve
- 2. Ans. d. Anterior interosseus nerve

#### References:

The elbow and its disorders By Bernard F. Morrey, Joaquin Sanchez-Sotelo, Page 226 Skeletal trauma in children, Volume 3 By Neil E. Green, Marc F. Swiontkowski, Page 212

The order is Anterior Interosseus Nerve> Median > Radial > Ulnar

- Nerve injuries occur in about 40% of type III (Gartland's classification) supracondylar fractures
- Earlier literature stated that radial nerve was the most commonly injured nerve in supracondylar fractures
- But recent studies indicate that the anterior interosseous branch of median nerve is mostly affected

### Nerve involvement differ with the type of fracture

Anterior interosseous nerve is mostly affected during posterolateral displacement of the distal fragment Radial nerve is mostly affected with posteromedial displacement Ulnar nerve is involved in flexion type of supracondylar fracture

3. Blount's disease is:

A. Genu valgum B. Genu varum C. Genu recurvatum D. Menisceal injury

### 3. Ans. B. Genu varum

### Blount's disease

### Tibia vara

Blount's disease is a growth disorder of the shin bone (tibia) in which the lower leg turns inward, resembling a bow leg.

### Causes, incidence, and risk factors

Blount's disease occurs in young children and adolescents. The cause is unknown but is thought to be due to the effects of weight on the growth plate. The inner part of the shin bone, just below the knee, fails to develop normally.

Unlike <u>bowlegs</u>, which tend to straighten as the child develops, Blount's disease slowly gets worse. It can cause severe bowing of one or both legs.

This condition is more common among African-American children. It is also associated with obesity and early walking.

**Genu recurvatum** is a deformity in the <u>knee joint</u>, so that the knee bends backwards. In this deformity, excessive extension occurs in the <u>tibiofemoral joint</u>. Genu recurvatum is also called **knee** 

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**hyperextension** and **back knee**. This deformity is more common in women and people with familial <u>ligamentous</u> <u>laxity</u>

- 4. A Teenaged girl complains of pain in knee on climbing stairs and on getting up after sitting for a long time. What is the probable diagnosis?
- A. Chondromalacia patellae

B. Plica syndrome

C. Bipartite patella

D. Patello-femoral osteoarthritis

### 4. Ans. A. Chondromalacia patellae

### Chondromalacia patella

#### Patellofemoral syndrome; Knee pain - chondromalacia

Chondromalacia patella is the softening and breakdown of the tissue (cartilage) that lines the underside of the kneecap (patella).

It is a common cause of anterior knee pain.

### Chondromalacia of the patella occurs in adolescents and young adults.

**The condition is more common in females.** It can be related to the abnormal position of the knee. **Symptoms** 

- A grating or grinding sensation when the knee is flexed (moved so that the ankle is brought closer to the back of the thigh)
- <u>Knee pain</u> in the front of the knee that occurs when you get up after sitting for a long period of time
- Knee pain that worsens when you use stairs or get out of a chair
- Knee tenderness

**Plica syndrome** of the knee is a constellation of signs and symptoms that occur secondary to injury or overuse. An otherwise normal structure, a plica can be a significant source of anterior knee pain.

### Bipartite patella-

A bipartite patella occurs when the patella, or kneecap, occurs as two separate bones. Instead of fusing together in early childhood, the patella remains separated. A bipartite patella is usually not a problem; it occurs in at least 1 percent of the population, and perhaps more.

- 5. First structure to be fixed after amputation is?
- A. Bone fixing
- B. Arterial repair
- C. Venous repair
- D. Nerve repair

5. Ans. A. Bone fixing

### Replantation

The goal of replantation (commonly known as re-implantation or re-attachment surgery) after traumatic amputation is successful restoration of function. Simply returning circulation to an amputated part does not in itself define success. The aim of the both the patient and the surgeon is useful function - replantation of a part that will not perform useful activity should be avoided.

### Bone Fixation (Osteosynthesis)

If the part is deemed to be replantable, bone fixation is performed first. Most commonly, fixation with k-wires is performed.

### Tendon Repair

After bone fixation is performed, the dorsal extensor tendon (above) and flexor tendon (below) are repaired. With all the "macro" structures repaired - bone, extensor and flexor tendon - attention is then turned to the microsurgical portion of the procedure.

### Microsurgical Artery and Nerve Repair

The microsurgical repair of an artery can now be performed with the operating microscope. A digital vessel, which is approximately 1 millimeter in size, can be repaired with 6 to 8 sutures of nylon. Removal of the vascular clamps reveals whether circulation can be re-established to the finger.

### Microsurgical Vein Repair

Attention is then usually turned to the dorsal aspect of the finger where the venous system is present that drains blood from the finger. Usually one or occasionally two veins are repaired with the operating microscope. The veins are often much smaller and more fragile than the arteries and hence more prone to clotting post-operatively.

### Skin Closure and Splinting

The skin is then closed, often with a skin graft, depending on the swelling and the nature of the injury. The hand is usually placed in a splint and the patient is monitored closely for circulatory changes in the finger during the post-operative period.