# **Personal information**

Student	Date Of Birth		Batch No		
Aman Ullah	05-Mar-98				
Academic Session	Subject		Exam - ( 2207-7 )		
2021-22	Block-II Exam (GIT+Rer	nal-I)			
Marks					
Total Marks		Marks Obtain			
120		85			
120		85			

# Paper Question & Answers Detail's

What is the name of the structure present at the angles of a classic	1	│ A Acinus
liver lobule?		O B Portal triad [T]
		C Central vein
		<ul> <li>D Hepatocyte</li> </ul>
		○ E Sinusoids
What is the space called that is located at the portal area between		A Space of Disse
the hepatocytes and connective tissue?	1	◯ B Space of Mall [T]
		C Vacuole
		O D Lacuna
		◯ E Howship's lacuna
Which of the following is a retroperitoneal part of GIT?	1	A Sigmoid colon
		B Transverse colon
		C Jejunum
		O D Ilium
		E Ascending colon [T]
Embryologically the three parts of the gut tube receive their blood		A Inferior mesenteric artey
supply from different arteries. The arterial supply of jeunum is from		◯ B Superior mesenteric artery [T]
		C Gastroduedenal artery
		D Celiac trunk
		E Splenic artery
Embryologically the three parts of the gut tube receive their blood		A Superior Mesenteric artery
supply from different arteries. The rectum receives its blood	1	B Superior vesical artery
supply from which of the following arteies?		C Lateral sacral artery
		D Inferior mesenteric artery [T]
		E External iliac artery
The presence of Pavers' patches is a chartacteristic of which part		A Esophagus
of the gastro intestinal tract	1	B Duodenum

A 40 years old male patient has a penetrating ulcer on the posterior wall of first part of duodenum. Which of the following blood vessel is most likely subject to erosion:

Which of the following structures forms the bed of the stomacha.

C Jejunum

O lleum [T]

🔵 E Cecum

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- A Common hepatic artery
- O B Hepatic artery proper
- C Celiac artery
- O D Gastroduodenal artery [T]
- E Anteriorinferior pancreaticoduodenal artery

	<ul> <li>B Right kidney</li> <li>C Right suprarenal gland</li> <li>D Gastroduodenal artery</li> </ul>
	<ul> <li>C Right suprarenal gland</li> <li>D Gastroduodenal artery</li> </ul>
	D Gastroduodenal artery
	E Descending colon
Which of the following vessels are the contents of the greater	A Right & left gastric vessels
omentum of the stomach?	○ B Right & left gastro-epiploic vessels [T]
	C Portal vein
	D Right & left hepatic arteries
	E Splenic artery
In which part of the oesophagus does the muscularis externa	A Upper third
contain both smooth & skeletal muscles	B Upper fourth
	C Middle third [T]
	D Lower third
	E Lower fourth
A 27-vear-old man is diagnosed as having an abdominal infection	A Stomach
that has spread retroperitoneally. Such an infection will affect 1	B Transverse colon
which one of the following organs?	C Jejunum
	O D Descending colon [T]
	E Spleen
A 52 years old man comes to the emergency department for	A Coeliac nodes [T]
severe upper abdominal pain. Endoscopy reveals a tumour in	B Hepatic nodes
antrum of stomach. A CT scan was done to find the extent of 1	C Inferior mesenteric nodes
involved?	<ul> <li>D Lumbar nodes</li> </ul>
	E Superior mesenteric nodes
Celiac trunk is ligated by the surgeon, which structure would not	A Stomach
be suffering from ischemia:	BLiver
	C Spleen
	○ D Gall bladder
	E Pancreas [T]
Gonadal arteries are paired branches of abdominal aorta, its origin	○ A L1
from abdominal aorta lies at which vertebral level:	O B L2 [T]
	○ C L3
	○ D L4
	○ E L5
The systemic vains at the lower and of econhague are drained into	A Hemiazygous vein [T]
which of the following voine?	
which of the following veins?	
which of the following veins?	C Lt Renal vein
which of the following veins?	C Lt Renal vein

Which of the following is derived from the foregut endoderm ?

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One of the contents of meso appendix is "appendicular artery". This appendicular artery is a branch of which of the following arteries?

Which one of the following structures is crossed by the Root (left limb) of sigmoid meso-colon

 $\bigcirc\,$  B connective tissue cells of the liver

C coronary ligament of the liver

A Beta cells of pncrease [T]

- O Kuffer cells
- E portal vein
- A Right colic branch of superior mesenteric artery
- O B Middle colic branch of superior mesenteric artery
- C Ilio colic branch of superior mesenteric artery [T]
- O Left colic branch of inferior mesenteric artery
- C E Superior rectal branch of inferior mesenteric artery

		A Right ureter
		O B Left ureter [T]
		C Right common iliac vessels
		<ul> <li>D Right psoas major muscle</li> </ul>
		E Inferior vena cava
The upper end of Root of Mesentry, where dudenoieiunal flexure is		○ A T12
located, lies at which of the following vertebral level	0	$\bigcirc$ BL1
Which one of the following structures is crossed by the root of	1	
mesentery attached on the posterior abdominal wan		B Left Psoas major muscle
		C Left common iliac vessels
		D 1st part of duodenum
		E Inferior vena cava [T]
In which of the following , external oblique muscle is related ?	0	A Pubic cartilage
		B Lacunar ligament [T]
		C Linea alba
		O Rectus sheath
		E Conjoint tendon
The stratified squamous epithelium in the wall of Esophagus is		A Somatic mesoderm
derived from which of the following Germ layers	1	B Splanchnic mesoderm
		C Paraxial mesoderm
		<ul> <li>D Intermediate mesoderm</li> </ul>
		E Endoderm [T]
The smooth muscles and C T in the wall of Esonhaque is derived		A Somatic mesoderm
from which of the following Germ layers	1	<ul> <li>○ B Splanchnic mesoderm [T]</li> </ul>
		C Paraxial mesoderm
		<ul> <li>D Intermediate mesoderm</li> </ul>
		<ul> <li>○ E Endoderm</li> </ul>
During CCD appaies the facilitator asked the students that		A Primitive pharvnx
Esophagus is developed from which of the following structures	1	B Respiratory diverticulum
		E lunction of foregut and middut
The Professor of anatomy mentioned in his LCF that there are four		A birrom incisor teeth [1]
esophagus which are considered during endoscopy procedure. He	1	B 9"trom incisor teeth
asked that the 1st compression lies at which level with reference		C 11"from incisor teeth
to incisor teeth		D 12"from incisor teeth
		E 15"from incisor teeth
The arterial supply of abdominal part of esophagus is from which		A Rt. Gastric A

## artery:

Cervical part of esophagus extends from lower end of laryngo pharynx to the root of the neck. The lower end of larygo pharynx lies at the level of which vertebra

During emergency surgery, it was found that a chronic gastric ulcer had perforated the posterior wall of the stomach and eroded a large artery running immediately posterior to the stomach. The artery is :

	В	Left	Gastric	А	[T]	
--	---	------	---------	---	-----	--

C Splenic A

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O Rt. gastro-epiploic A

O E Lt gastro-epiploic A

A C3 vertebra

O B C4 vertebra

C C5 vertebra

O C6 vertebra [T]

E T2 vertebra

		<ul> <li>B common hepatic artery</li> </ul>
		C left gastroepiploic artery
		◯ D splenic artery [T]
		E superior mesenteric artery
A 20m year old male received a barsh blow to his abdomen in the		A descending colon
upper left quadrant during a fist fight and was taken to the hospital		B left kidney
emergency room. Examination showed low blood pressure and		
felt protruding downwards and medially below the left costal	1	$\bigcirc$ D spleen [T]
margin. X-ray revealed that the 9th and 10th ribs were fractured		E stomach
near their angles on the left side. The abdominal organ most likely		
Which one of the following options is the Posterior relation of the right kidney:	0	
nght Manoy.		B diaphragmatic recesses
		O D psoas muscle
		E subcostal nerve
After arising from the uretero-pelvic junction, the ureters descend		A Quadrates lumborum
through the abdomen on the anterior surface of which of the following muscle?	1	⊖ B psoas minor
		─ C psoas major [T]
		○ D iliacus
		E transversus abdominis
Which of the following structure is an anterior relation of the right	1	○ A stomach
kidney ?		B spleen
		C pancreas
		O D duodenum [T]
		🔵 E jejunum
Kidneys are retroperitoneal structures located on the posterior		A Extends from T1 To T5
abdominal wall. What is their location in relation to the vertebral	0	B Extends from T5 to T12
column ?		C Extends from T12 To L3 [T]
		D Extends from T12 to L5
		E Extends from L1 to L5
The left renal vein receives tributaries from several organs before		○ A pancreas
terminating in the Inferior Vena Cava. Which of the following	1	B right ovary
structure is drained by the Left renal vein ?		◯ C left ovary [T]
		<ul> <li>◯ D bladder</li> </ul>
		E left ureter
Calcified concretions attributed to an aging presses are called		A Epididymis
corpora amylacea. These are characteristic features in the	1	B Pineal gland
histological structure of:		C Prostate gland [T]
		D Seminal vesicles
		E Thyroid gland

A gastroduodenal artery

Which of the following organs has a very markedly developed fibromuscular stroma?

Regarding the structural differences between the male and female urethrae, which of the following structures is present in the male urethra but is not present in the female urethra?

Prostate gland is supplied by which of the following arteries:

A Epididymus

B Prostate [T]

C Seminal vesicles

O Testes

E Thyroid

A Stratified squamous epithelium

○ B Transitional epithelium [T]

C Glands of Littre

O External sphincter of skeletal muscle

C E Connective tissue layer underlying the epithelium

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		<ul> <li>A Superior rectal artery</li> </ul>
		B Middle rectal artery [T]
		C Inferior rectal artery
		<ul> <li>D Median sacral artery</li> </ul>
		E Lumbar arteries
Prostate gland has different lobes in relation to prostatic urethra		A Anterior lobe
Which one of its lobes is located between prostatic urethra and	1	B Posterior lobe
ejaculatory duct?		○ C Median lobe [T]
		D Right lateral lobe
		E Left lateral lobe
increased in old age, it is	1	$\bigcirc$ B4 gram
		$\bigcirc$ C 8 gram [T]
		$\bigcirc$ D 10 gram
The trigone on the posterior wall of the urinary bladder is formed	1	A incorporation of the lower ends of the mesonephric ducts [T]
by the :		B incorporation of of the lower ends of the pronephric ducts
		C incorporation of the metanephric mesoderm
		<ul> <li>D incorporation of the mesonephric tubules</li> </ul>
		E incorporation of the pronephric tubules
Extrophy of the bladder is often associated with :	0	<ul> <li>A Adrenal hyperplasia</li> </ul>
		<ul> <li>B chromosomal; abnormalities</li> </ul>
		C epispadius [T]
		D hypospadias
		◯ E Urachal fistula
Content of deep perineal pouch in female ?	1	A deep transverse perneal muscles
		◯ B greater vestibular glands [T]
		C internal pudendal vessels
		<ul> <li>D part of urethra and vagina</li> </ul>
		E sphincter urethra
Pancroas is stimulated to increase its watery alkaline secretions		
by:	1	B Cholecystokinin
		C Gastrin
		<ul> <li>○ D Secretin [T]</li> </ul>
A 64 year old man consumes a healthy meal. About 40 minutes later, the ileocecal sphincter relaxes and chyme moves into the		
cecum. Gastric distention leads to relaxation of the ileocecal	0	
sphincter by way of which reflex?		
		E Rectosphincteric
Which hormone is released by the presence of fat and protein in		A Cholecystokinin [T]
the small intestine and has a major effect in decreasing gastric	1	B Glucose dependant insulinotropic peptide

the small intestine and has a major effect in decreasing gastric emptying?

Which of the following best describes the mechanism for fructose movement across the luminal cell membrane of an enterocyte?

Swallowing is a complex process involving signaling between the pharynx and swallowing center in the brain stem. Which structure is critical for determining whether a bolus of food is small enough to be swallowed?

B Glucose dependant insulinotropic peptide

C Gastrin

O D Motilin

) E Secretin

A Endocytosis

O B Exocytosis

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C Facilitated diffusion [T]

D Primary active transport

E Secondary active transport

Motilin is secreted by the stomach and upper duodenum during fasting, and the only known function of this hormone is to increase gastrointestinal motility. Migrating motility complexes (MMCs) occur about every 90 minutes between meals and are thought to be stimulated by motilin. An absence of MMCs causes an increase in which of the following?

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Secretin, the first gastrointestinal hormone discovered, is secreted by the "S" cells in the mucosa of the duodenum. The major stimulus for release of secretin is:

In addition to mucus-secreting cells that line the entire surface of the stomach, the stomach mucosa has two important types of tubular glands—oxyntic glands and pyloric glands. Main gastric glands are present in mucosa of:

Which of the following is least likely to be a function of Myenteric plexus?

which one is least likely regarding spike potential of	
gastrointestinal tract ?	

A 68 year old woman with hematemesis has heartburn and stomach pain. Endoscopy shows inflammation involving the gastric body and antrum as well as a small gastric ulcer. Biopsies were positive for helicobacter pylori. H.pylori damages the gastric mucosa primarily by increasing mucosal levels of which substance?

Which statement is most likely regarding Secretin?

		A Epiglottis
		O B Larynx
		C Palatopharyngeal folds [T]
		O Soft palate
		E Upper esophageal sphincter
		A Duodenal motility
		B Gastric emptying
1		◯ C Intestinal bacteria [T]
		O Mass movements
		E Swallowing
		ОАССК
1		O B HCI [T]
		C Histamin
		<ul> <li>D Protein digestion products</li> </ul>
		E Somatostatin
		A Body and fundus of stomach
1		◯ B Fundus of stomach [T]
		C incisura angularis
		O Near lower esophageal sphincter
		E Pylorus of stomach
^		A increased tonic contraction, or "tone," of the gut wall [T]
U		<ul> <li>B increased intensity of the rhythmical contractions</li> </ul>
		C slightly increased rate of the rhythm of contraction
		<ul> <li>D increased velocity of conduction of excitatory waves along the gut wall</li> </ul>
		<ul> <li>E contraction of sphincter muscles</li> </ul>
•		A Channels responsible are calcium-sodium channels
U		B Channels are much slower to open and close than those of nerves
		C Intensity usually varies between 5-15mv [T]
		○ D Last 10-40 times as long in GI smooth muscle as in large nerve fibers
	$\sim$	
	$\bigcirc$	E Occur automatically when the resting membrane more positive than -40mv
1		B Bile saits
•		
1		A it causes gail bladder contraction
		( ) Β It has trophic effect on gastric mucosa

O It increases pancreatic bicarbonate secretion [T]

E It is secreted by I cells of duodenal mucosa

Which of the following is least likelyT regarding cholecystokinin (CCK)?

The proenzymc pepsinogen is secreted mainly from which of the following cells.

At basal rate of secretion saliva has the highest concentration of which of the following ions?

A It causes contraction of gall bladder

- B It increases gastric emptying [T]
- C It increases pancreatic enzyme secretion
- O It is released by I cells of intestinal epithelium
- E It relaxes sphincter of Oddi
- A Chief (or peptic) cells of the stomach [T]
- B Epithelial cells of the stomach
- C G- cells of the stomach
- D P cells of stomach
- E Parietal (or oxyntic) cells of the stomach

A 50 years old male visited the Nephrology OPD of Northwest Teaching Hospital for complaints of oliguria. On examination periorbital edema and edema feet was noticed. His blood pressure was 180/100 mmHg. Lab investigations were as follows: Hb: 8 gm/dl RBC count: 3.5 million/micro liter Urea: 305 mg/dl Serum creatinine: 6.1 mg/dl After analysing all this data what do you think is the most likely cause of his anemia?

Angiotensin converting enzyme (ACE) inhibitors are used for treatment of some cases of hypertension. Which of the following is the most likely the basic mechanism by which ACE inhibitors bring blood pressure down?

Loop Diuretics like furosemide causes diuresis by decreasing absorption of solutes in the loop of Henle causing osmotic diuresis. Which of the following carrier proteins is most likely inhibited by loop diuretics?

Concerning renal function, the glomerular filtration rate (GFR) is most likely increased by:

In Proximal convoluted tubule hydrogen ions are secreted into the tubular lumen by secondary active transpot. Which of the following carrier is most likely responsible for this?

The Bowman's capsule hydrostatic pressure is one of the determinants of GFR. The Bowman's Capsule hydrostatic pressure is most likely to be increased as a result of:

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Antidiuretic hormone (ADH) plays important role in regulation of body water. ADH causes reabsorption of water in which segment of nephron?

The juxtaglomerular	complex	consists	of macula	densa cells in the
The jux lay offer user	COMPRES	しついううしう	ui illacuia	uensa cens in lie

A Bicarbonate
⊖ B Calcium
C Chloride
O Potassium [T]
E Sodium
A Bone marrow suppression
B Deficiency of erythropoeitin [T]
C Excessive hemolysis
D Iron deficiency
E Vitamin B12 deficiency
A Decreases the production of Angiotensin I
○ B Decreases the production of Angiotensin II [T]
C Decreases the production of Renin
<ul> <li>D Decreases blood volume</li> </ul>
E Decreases venous return
A Sodium-amino acid co-transporter
B Sodium-2chloride-potassium co transporter [T]
C Sodium-hydrogen cotransporter
O Sodiumi hydrogen exchanger
E Sodium-glucose cotransporter
A A fall in the concentration of anti-diuretic hormone in the blood.
<ul> <li>B Constriction of the afferent arterioles.</li> </ul>
C Constriction of the efferent arterioles. [T]
O Increase in the capsular pressure.
E Increase in the concentration of plasma proteins
A Hydrogen ATPase Pump
B Hydrogen-chloride exchanger
C Hydeogen-potassium antiporter
D Hydrogen-potassium ATPase pump
E Hydrogen-sodium exchanger [T]
A Constriction of Efferent Arteriole
B Increased GFR
C Increased Plasma proteins
<ul> <li>D Increased reabsorption through proximal tubule</li> </ul>
E Obstruction to ouflow of urine in ureter [T]
○ A Collecting duct [T]
B Distal convoluted tubule
C Loop of Henle (Thick segment)
D Loop of Henle (Thin segment)
E Proximal convoluted tubule

initial portion of the distal tubule and juxtaglomerular cells in the walls of the afferent and efferent arterioles. Renin, released by juxtaglomerular cells (JG cells) of the juxtaglomerular complex, mainly causes:

Nephron is the structural and functional unit of the kidney. Which of the following portions of the nephron is impermeable to water even in the presence of large amount of ADH?

By indicator dilution method, if 1ml of a 10mg/ml solution is added to a fluid compartment, what will be the volume of the fluid compartment if the final concentration of the compartment fluid is 0.01mg/ml? B Decreased Sodium reabsorption

A Increased water reabsorption

- C Angiotensin I formation [T]
  - D Decreased sodium reabsorption
- E Decreased phosphate reabsorption
- A Collecting duct
  - B Descending limb of loop of Henle
  - C Late distal tubule
  - D Proximal tubule
- C E Thick segment of the ascending limb of loop of Henle [T]

Because cell membranes are relatively impermeable to most solutes but are highly permeable to water, whenever there is a higher concentration of solute on one side of the cell membrane, water diffuses across the membrane toward the region of higher solute concentration.. What happened to the osmolarity and volume of the intracellular fluid if a hypertonic solution is added to ECF?

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Total osmolarity of each of the three compartments is about 282 mOsm/L, with the plasma being about 1 mOsm/L greater than that of the interstitial and intracellular fluids because of the plasma proteins. For this 1 mOsm concentration gradient across the capillary membrane, how much osmotic pressure is maintained in the capillaries than in the surrounding interstitial spaces?

Which of the following substances has the highest Renal clearance ?

A patient with Chronic renal failure looks pale and complains of fatigue .Blood investigations reveal he is anemic.The Doctor started him on Iron tablets but with no response and the symptoms worsened .What should be the next line of treatment?

Glycolysis and HMP shunt have which the following similarity in both pathways?

The rate limiting enzyme of Ketone body synthesis is which of the followings?

Which of the	following is	s the	rate enzyme	of Ketogenesis	;?
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Which of the following Enzymes are required in both cholesterol &	1	
katana hadiga aynthagig 2	1	

	A 100 ml
	B 500 ml
$\bigcirc$	C 1000 ml [T]
	D 1500 ml
	E 2000 ml
$\bigcirc$	A ∱se in volume ↓se in osmolarity
$\bigcirc$	B ↓se in volume ↑se in osmolarity [T]
	C ↓se in volume ↓se in osmolarity
	D
	E No increase in volume and osmolarity
$\bigcirc$	A 19.3 mm Hg [T]
	B 17.3 mm Hg
	C 15.3 mm Hg
	D 11.3 mm Hg
	E 9.3 mm Hg
$\bigcirc$	A Creatinine
	B Glucose
$\bigcirc$	C Inulin
	D PAH [T]
	E Sodium
$\bigcirc$	A Dietary intake of Iron
$\bigcirc$	B Erythropoietin [T]
	C Folate
	D Iron supplements
	E Vitamin B12
$\bigcirc$	A ATP is formed
$\bigcirc$	B Glucose-6-phosphate is an intermediate [T]
	C ribose -5-phosphate is formed
	D NAD is reduced
	E NADP is reduced
	A Acetyl-Co A Caboxylase [T]
	B HMG-Co A Lyase
	C HMG-Co A Isomerase
	D HMG-Co A Reductase
$\bigcirc$	E HMG-Co A Synthase
$\bigcirc$	A Acetyl-Co A Caboxylase
	B HMG-Co A Lyase
	C HMG-Co A Isomerase
	D MG-Co A Reductase
$\bigcirc$	E HMG-Co A Synthase [T]

ketone bodies synthesis ?

### Pancreatic secretions fall in which of the following pH category?

Which of the following is secreted by parietal cells of stomach?

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B HMG-Co A Reductase

A Acetyl-Co A Caboxylase

C HMG-Co A Isomerase

O HMG-Co A Synthase [T]

O E HMG-Co A Lyase

- A Low acidic
- O B Highly alkaline [T]
- C Highly acidic
- D low alkaline
- E Neutral

A 24-year-old woman presents with diarrhea, dysphagia, jaundice and white transverse lines on the fingernails (Mee's lines). The patient is diagnosed with Arsenic poisoning,that inhibits which of the following enzymes of TCA cycle?

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A three years boy is brought to emergency department after several episode of vomiting and lethargy.After a careful history is taken, it is found that these episodes occur after taking foods rich in fructose. His blood sugar was checked and it was found extremely low. The deficiency of which of the following enzymes may be the biochemical basis for these symptoms?

At What concentration of Glucose( mg/dl) in blood, the ability of kidneys to retain it is impaired, leading to its spillage in urine, accompanied by water loss, polyurea and polydipsia?

During catabolism of amino acids, their amino groups are transferred mainly to :

Oxidation of which substance in the body yields the most calories per gram?

The pentose phosphate pathway is less active in which one of the following tissues

The main regulatory enzyme of	f pentose phosphate pathway is
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A HCL& intrinsic factor
B HCL& pepsinogen [T]
C Mucus & HCL
D Pepsinogen & intrinsic factor
E Pepsinogen & mucus
O A α-Keto glutarate dehydrogenase complex [T]
B Citrate synthase
C Isocitrate dehydrogenase
O Malate dehydrogenase
E Succinate dehydrogenase
A Aldolase -B [T]
B Aldose reductase
C Glycogen phosphorylase
D seglukokinase
E hexokina
A 100
O B 120
O C 140
O D 160
○ E 200 [T]
O A Aspartate
B Oxaloacetate
C alpha-ketoglutrate [T]
O Pyruvate
E Ornithine
A animal protein
⊖ B glucose
C glycogen
O lipid [T]
◯ E plant protein
○ A adipose tissue
<ul> <li>B lactating mammary gland</li> </ul>
◯ C liver
O D RBCs
E skeletal muscle [T]
A glucose-6p-dehydrogenase [T]
B pentose phosphate isomerase
C pentose phosphate epimerase
O Transaldolase

gestation with past history of previous two pregnancies affected by neural tube defects (NTD). Which of the following can be probable cause?

55 years old man presents with left sided chest pain. Detail examination and laboratory reports show no obvious risk factors like obesity, hypertension, and increased cholesterol/triglyceride/Low density lipoprotein (LDL) except right coronary artery (RCA) stenosis. Which of the following can be the most likely cause?

A 78-year-old male is brought to emergency with Acute myocardial infarction. Blood biochemistry reveals lactic acidosis. How much energy yield Adenosine tri phosphate(ATP) per molecule of glucose is expected in such a condition ○ B Maternal high levels of homocysteine [T]

C Maternal high levels of homoserine

A Maternal high levels of Folic acid

- D Maternal high levels of pyridoxine
- E Maternal high levels of serine

E Transketolase

- A Increased plasma levels of alanine
- B Increased plasma levels of cysteine
- O C Increased plasma levels of homocysteine. [T]
  - D Low plasma levels of low density lipoproteins.
  - E Low plasma levels of triglycerides.

Diabetic patients usually develop complications like cataract and neuropathy due to high concentration of sorbitol in the tissues. These complication of diabetes mellitus may be prevented by the blocking which of the following enzymes?

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In CYSTIC FIBROSIS pancreatic duct is blocked by viscous mucous.Consequently digestion of which of the following substances is most likely impaired?

A 65 year-old man presents with weight loss and passage of bulky stools. Fecal fat test indicates that excretion of fats are 55 g over three days (normal is less than 21 g) and it is mostly unsplit fat. Which of the followings is the most likely cause for this condition:

A new born vomits after each feeding of milk based formula and does not gain weight.Biochemical testing reveals severe deficiency of galactose-1-phosphate uridyle transferase. If this condition goes untreated, which of the following is the most likely outcome for this patient:

Fatty acid synthase consists of two identical polypeptide subunits that function as a homodimer, generating two palmitatesynthesizing sites. How many molecules of palmatic acid will be synthesized if this homodimer is enzymatically cleaved in to two subunits :

Consider that in a cultured adipocyte cell line you are trying to synthesize palmitate(16-C FATTY ACID).During this process how many net molecules of CO2, adenosine triphosphate(ATP) and reduced Nicotinamide adenine dinucleotide phosphate(NADPH) are consumed to make palmitate

Which of the following statements best describes the overall biochemical role of PTH?

	Αο
	○ B 2 [T]
	○ C 4
	O D 32
	○ E 38
	A Aldose reductase [T]
	E sorbitol dehydrogenase
	A Brawn bread
	B honey
	⊖ C meat
	O D Olive oil [T]
	E sugarcane juice
	A Celiac disease
	B crohn"s disease
	C obstruction of bile duct
	<ul> <li>D Surgical removal of intestine</li> </ul>
	<ul> <li>E chronic pancreatic disease [T]</li> </ul>
	A Benjan disease with development of cataract
	B Chronic emphysions appearing in early adultheed
	Chronic emphysema appearing in early additioned.
	D Gastrointestinal symptoms that remit with puberty
	E Mental retardation and later death in infancy [T]
	○ A 0 [T]
	○ B 1
	○ C 2
	O D 3
	○ E 4
	A 0 CO2,7ATPs,14NADPH [T]
	B 8CO2,9ATPs,9NADPH
	C 9CO2,8ATPs,16NADPH
	D 16 CO2,18ATPs,18NADPH
	E 18 CO2,18ATPs,18NADPH
	A decrease plasma Ca2+ levels and decrease plasma phosphate levels
	B decrease plasma Ca2+ levels and increase plasma phosphate levels
$\bigcirc$	C increase plasma Ca2+ levels and decrease plasma phosphate levels. [T]
Ŭ	
	D increase plasma Ca2+ levels and have no effect on plasma phosphate levels
	E increase plasma Ca2+ levels and increase plasma phosphate levels
	A Calcium
	B cAMP [T]
	C diacyleglycerol
	<ul> <li>D inositol triphosphate</li> </ul>
	○ E cGMP
	A malignancy
	⊖ E letany

Which of the following 2nd messengers are utilized by parathyroid hormone?

A 47-year-old female develops symptoms of hypercalcemia and further workup demonstrates her to have primary hyperparathyroidism. What is the most likely risk to this patient?

A 63-year-old male with end-stage renal disease requiring hemodialysis three times per week presents with bone pain and several pathologic fractures of the extremities. Which is the most likely abnormality in this patient

A 5 year child is diagnosed with chronic renal disorder.which of the following substances should be administered in order to prevent rickets?

A 17 years old girl decided to go on starvation diet.After 1 week of starvation which substance which substance would be most likely found in her urine ?

A36 year old woman reported with dullpain in the left flank. She reports fever and inability to pass urine for the last few days. Similar history was reported in the last six months. Routine urine analysis revealed presence of of RBC, puss cells,WBC casts,aminoacids and characteristic hexagonal crystals.What is the probable cause

A 2 year old boy was brought to Medical Out Patient Department for his instability during walking. His brain MRI and PO2 were found to be in normal limits. Where as his serum lactate levels were high. What could possibly be deficient?

A health care instructor is teaching medical students about principles of ethics in health care, and she tells them that the utmost important principle to observe while taking care of patient is doing no harm. The principle of ethics described here refers to?

There are various types of a questionnaire. One such type collect qualitative data. They use a basic structure and some branching questions but nothing that limits the responses of a respondent. The questions are more open-ended to collect specific data from participants. Which questionnaire is best defined by the above scenario?

A nursing instructor is teaching nursing students about principles of ethics in health care, and she tells them that the utmost important principle to observe while taking care of patient is doing no harm. The principle of Ethics she described here;

B hypernatremia
C hypophosphatemia
O hypocalcemia [T]
E hypochloremia
A Cholecalciferol
B Ergocalciferol
C 25-OH-calciferol
D 1,25-di-OH-cholecalciferol [T]
E High dietary calcium
A BLOOD
B GLUCOSE
C KETONES [T]
E RED URINE PIGMENTS
O A Alkaptonuria
B Cystinuria [T]
C Cystathioninuria
O Phenyleketonuria
E Tyrosinuria
E PFK [T]
O D PEPCK
C PDC (pyruvate dehydrogenase complex)
B G6PD
A Fumerase
A Beneficence
B Justice
C Nonmaleficence [T]
<ul> <li>D Respect for autonomy</li> </ul>
E Veracity
<ul> <li>A Dichotomous Questionnaire</li> </ul>
B Quasi-structured Questionnaire
C Structured Questionnaire
D Task-based Questionnaire
E Unstructured Questionnaire [T]
A Beneficence
B Justice
C Nonmaleficence [T]
D Respect for autonomy
E Veracity
A Case Report

You are working on a research project with your supervisor to

learn about the culture of a specific community and answer the research question "What is it like to be a young Afghan Pashtun parent who has at least one Polio afflicted child?" your study design will be

You are conducting research to study ideas, beliefs, human behaviors and other research questions that do not involve studying the relationship between variables, you are conducting a

A 75 year old man presented with bleeding PR. A colonoscopy revealed a rectal adenocarcinoma. In which part of the large bowel do most colorectal cancers occur? B Cross-Sectional study

C Ethnography [T]

A hypokalemia

1

1

0

0

1

0

1

1

1

1

- D Grounded Theory
- E Phenomenology
- A Diagnostic research
- B Experimental research
- C Fundamental research
- O D Qualitative research [T]
  - E Quantitative research

In which part of the large bowel do most colorectal cancers occur?

Which of the following is not a common cause of peptic ulcer disease (PUD)?

An 11 years old present to clinic two weeks after recovery from a skin infection of the lower cheek that was characterized by multiple small honey crusted lesion. Her mother brought her to clinic because she is worried about the acute onset of malaise, nausea, headache," puffiness " around her daughter's eyes, and odd "coke-colored" urine. Which of the following finding is expected?

A female of 30 years presents t the medical OPD with complaints of constipation since last 10 days. Which of the following drugs will you prescribe to this patient?

A laboratory assistant is advised to determine the blood glucose levels of a diabetic patient. He collected blood into a 5-mL Vacutainer tube. Which of the following preservatives should he use in order to stop glycolysis in blood cells present in tube and avoid false negative result for glucose estimation?

Food-borne diseases are caused by consuming contaminated foods or beverages and they are common among children. What is one of the best ways to help children avoid food-borne diseases?

All legal means presented in the court of law to prove or disprove a matter under investigation is called:

Which one of the following is the outermost Covering of the

B Caecum	
C Descending colon and rectum	
O D Sigmoid colon and rectum [T]	
E Transverse colon and rectum	
A Ascending colon and rectum	
B Caecum	
C Descending colon and rectum	
O Transverse colon and rectum	
E Sigmoid colon and rectum [T]	
A Chronic alcohol ingestion [T]	
B Nonsteroidal anti-inflammatory drugs (NSAIDs)	
C Stress-related mucosal damage	
D Helicobacter pylori infection	
E All of the above are common causes of PUD	
A Congestive cardiac failure	
O B Nephrotic Syndrome	
C Nephritic syndrome [T]	
O Renal failure	
E Urethra obstruction	
A Domperidone	
O B Lactulose [T]	
C Loperamide	
D Metoclopramide	
<ul> <li>D Metoclopramide</li> <li>E Metronidazole</li> </ul>	
<ul> <li>D Metoclopramide</li> <li>E Metronidazole</li> <li>A citrate-phosphate-dextrose with adenine</li> </ul>	
<ul> <li>D Metoclopramide</li> <li>E Metronidazole</li> <li>A citrate-phosphate-dextrose with adenine</li> <li>B Heparin</li> </ul>	
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<ul> <li>D Metoclopramide</li> <li>E Metronidazole</li> <li>A citrate-phosphate-dextrose with adenine</li> <li>B Heparin</li> <li>C Sodium floride [T]</li> <li>D Sodium citerate</li> <li>E 2,3-bisphosphoglycerate</li> <li>A Have them not help with cooking food</li> <li>B When cooking, have them stay out of the kitchen</li> <li>C Have them wear rubber gloves</li> <li>D Encourage them to wash their hands before and after having food [T]</li> <li>E Identify the side effects of food-borne diseases</li> <li>A Deposition</li> <li>B Evidence [T]</li> <li>C Fact</li> </ul>	
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#### kidney:

#### Which of the following arteries supply renal capsule:

0

0

1

1

0

1

1

1

1

0

Which of the following is one of the common presentation of renal cell carcinoma?

B perirenal fat

O C perirenal fascia

A fibrous capsule

D pararenal fascia [T]

C E pararenal fat

#### A arquate artey

- B afferent glomerular artery
- C interlobar artery
- D interlobular artery [T]
- E segmental artery

	A Flank mass
	O B Flank pain
	C Hematuria [T]
	O Lethargy
	E Weight loss
Which of the following is the common presentation of carcinoma	A Anemia [T]
caecum?	B Jaundice
	C Obstruction
	O Pain
	E Vomiting