- 1. Which of the following most accurately describes the transmembrane signalling process involved in steroid hormone action?
  - (1) Action of a membrane spanning tyrosine kinase
  - (2) Activation of a G-protein which activates or inhibits adenylyl cyclase
  - (3) Diffuses across the membrane and binding to an intracellular receptor
  - (4) Opening of transmembrane ion channels
- 2. Which of the following drugs when given alone can produce hypertension after intravenous administration?
  - (1) Acetylcholine
  - (2) Pilocarpine
  - (3) Carbachol
  - (4) Bethanechol
- 3. Chloroquine is the drug of choice in the treatment of
  - (1) non-falciparum and sensitive falciparum malaria
  - (2) amoebic liver abcess
  - (3) rheumatoid arthritis
  - (4) All of the above?
- 4. The oral dose of Metronidazole in the treatment of Trichomonas vaginitis is
  - (1) 400 mg twice daily for 1 week
  - (2) 750 mg once daily for 1 week
  - (3) 250 mg thrice daily for 10 days
  - (4) 2 g as a single dose

- Aspirin overdose is characterised by a syndrome of
  - (1) bone marrow suppression and aplastic anaemia
  - (2) fever hepatic dysfunction and encephalopathy
  - (3) hyperthermia, metabolic acidosis and coma
  - (4) rash, interstitial nephritis and acute renal failure /
- 6. Which of the following NSAIDs is under clinical evaluation for the preventive management of Alzhheimer's disease?
  - (1) Aspirin
  - (2) Ibuprofen
  - (3) Diclofenac sodium
  - (4) Piroxicam
- 7. The mechanism of action of Diazepam is
  - (1) binding to GABA receptors and directly enhance the chloride conductance
  - (2) binding to GABA receptors and increase their affinity towards GABA
  - (3) binding to GABA receptors and directly inhibit chloride conductance
  - (4) binding to GABA receptors and decrease their affinity towards GABA
- 8. Which of the following statements about Doxycycline is **not** true?
  - (1) It is bacteriostatic
  - (2) It is excreted mainly in faeces
  - (3) It is used in Lyme's disease
  - (4) It is more active than Tetracycline against H. pylori

(4)

- 9. A bone marrow suppression induced by 13.
  Chloramphenicol is
  - (1) a dose related reversible phenomenon
  - (2) a non-dose related irreversible phenomenon
  - (3) Both the above
  - (4) None of the above
- 10. Which of the following antimycobacterial agents can interfere with the action of oral contraceptives?
  - (1) Ethambutol
  - (2) Isoniazid
  - (3) Rifampicin
  - (4) Pyrazinamide
- 11. A cell cycle specific anti-cancer drug that acts mainly in the 'M' phase is
  - (1) Bleomycin
  - (2) Cisplatin
  - (3) Vincristine?
  - (4) Etoposide
- 12. Methotrexate is used in the treatment of the following except
  - (1) Choriocarcinoma
  - (2) Ectopic pregnancy
  - (3) Myasthenia gravis
  - (4) Psoriasis

- Which of the following agents is associated with a high incidence of disorientation, sensory and perceptual illness and vivid dreams during recovery from anaesthesia?
  - (1) Diazepam
  - (2) Ketamine
  - (3) Thiopental
  - (4) Sevoflurane
- 14. Which one of the following hypnotic drugs facilitates the inhibition of GABA, but lacks anticonvulsant or muscle relaxing properties and has minimal effect on sleep architecture?
  - (1) Buspirone
  - (2) Diazepam
  - (3) Phenobarbitol
  - (4) Zaleplon
- 15. Opioid analgesics are contraindicated in several clinical situations. For morphine such situations do **not** include
  - (1) Biliary tract surgery
  - (2) Pulmonary edema
  - (3) Late stage of labour
  - (4) Hypothyroidism
  - In acute inflammation the tissue response consists of all except
    - (1) Vasodilatation
    - (2) Neutrophilic response
    - (3) Exudation
    - (4) Macrophage accumulation

SAC/554 17. Ethyl alcohol is used for fixation of Pap smear (1) Kidney biopsy (2) (3) Testicular biopsy Bone biopsy (4) 18. Epithelioid cells are seen in all of the following except Tuberculosis (1) Leprosy (2) Xanthogranuloma (3)(4) Sarcoidosis 19. Rosette formation is the characteristic feature in Squamous cell carcinoma (1) Osteosarcoma

	(2)	Osteosarcoma
	(3)	Adenocarcinoma
	(4)	Neuroblastoma
20.		roendocrine secretory granules ar constrable in
	(1)	Papillary carcinoma thyroid
	(2)	Carcinoid tumour
	(3)	Granulosa theca cell tumour

Dysgerminoma

( !	5)		C
	21.		ence of ganglionic cells in myenteric cus is observed in
		(1)	Hirschsprung's disease
		(2)	Achalasia cardia
		(3)	Mucoviscidosis
		(4)	Meckel's diverticulum
	22.	Gho	n's focus is present in
9	-1	(1)	progressive tuberculosis
		(2)	secondary tuberculosis
		(3)	miliary tuberculosis
		(4)	primary tuberculosis
	23.	Psei	udopolyposis is observed in
		(1)	Crohn's disease
	10	(2)	Ulcerative colitis
c		(3)	Tuberculosis of ileocaecal region
		(4)	Pseudo membranous colitis
	24.	Isoe	nzyme CPK-MB is raised in
		(1)	Rheumatic fever
		(2)	Myocardial infarction
		(3)	Viral myocarditis
е		(4)	Viral hepatitis?

Patients are designated as pink puffers in

Chronic bronchitis

Bronchiectasis

Emphysema

Pneumoconiosis

(1)

(2)

(3)

(4)

- 26. The following organisms are gram negative 31.
  - (1) Staphylococci
  - (2) Streptococci
  - (3) Meningococci
  - (4) Pneumococci
- 27. The following is asexually transmitted pathogen:
  - (1) Mycobacteria
  - (2) N. Gonorrhoeae
  - (3) Brucella
  - (4) Nocardia
- 28. Liquid paraffin is sterilized by
  - (1) Hot air oven
  - (2) Autoclaving
  - (3) Filtration
  - (4) Radiation
- 29. Rheumatoid factor is detected by
  - (1) Rose-Waaler test
  - (2) ASO test
  - (3) Widal test
  - (4) VDRL test
- 30. Following organism has metachromatic 34. granules:
  - (1) Mycobacteria
  - (2) C. Diphtheriae
  - (3) Staphylococci
  - (4) Streptococci

- 31. Pancreaticoduodenectomy is the treatment of choice for
  - (1) Duodenal carcinoma
  - (2) Pancreatic carcinoma
  - (3) Gall bladder carcinoma
  - (4) Gastric carcinoma
- 32. In a post cholecystectomy patient, who develops bile leakage due to CBD tear 5 days post operative, with no "T" tube inserted at the time of surgery, ideal treatment is
  - (1) ERCP procedure with stent
  - (2) hepaticojejunostomy
  - (3) primary repair after reopening abdomen
  - (4) ultrasound guided insertion of drain
- 33. Inguinal and femoral hernia are differentiated by relation with
  - (1) Pubic tubercle
  - (2) Femoral artery
  - (3) Inferior epigastric artery
  - (4) Pectineal line
- 34. A.V. fistula leads to all except
  - (1) Sinus tachycardia
  - (2) Increased pre load
  - (3) Cardiac arrhythmias
  - (4) Increased cardiac output

- 35. Varicocele of pampiniform plexus of veins has all the following characters except
  - (1) negative transillumination test
  - (2) reducible
  - (3) cough impulse present
  - (4) frequent on right side
- 36. Initial treatment of management of polytrauma is
  - (1) airway/
  - (2) IV fluids
  - (3) fracture stabilisation
  - (4) do not shift
- 37. The commonest cause of haematemesis and malena is
  - (1) Oesophageal varices
  - (2) Chronic peptic ulcer
  - (3) Acute peptic ulcer
  - (4) Carcinoma of stomach
- 38. Lymphovenous anastomosis is done in
  - (1) Filariasis
  - (2) Malignant lymphoma
  - (3) Post radiotherapy lymphoedema
  - (4) All of the above

- 39. While operating for obstructed inguinal hernia the sac is opened at
  - (1) fundus 9
  - (2) neck /
  - (3) body
  - (4) base
- 40. During parotid surgery injury to which nerve results in Frey's syndrome?
  - (1) Auriculotemporal nerve
  - (2) Great auricular nerve
  - (3) Mandibular nerve
  - (4) Buccal nerve
- 41. Disc prolapse is recognised by
  - (1) C.T.
  - (2) M.R.I.
  - (3) Myelography
  - (4) All of the above
- 42. Lymphatic metastasis of buccal carcinoma first involves
  - (1) Submandibular
  - (2) Submental
  - (3) Jugulo digastric
  - (4) Jugulo omohyoid
- 43. Treatment of choice of acute obstruction due to left sided colonic carcinoma in a 70-year-old male is
  - (1) Left side colectomy
  - (2) Total colectomy
  - (3) Hartmann's procedure
  - (4) Defunctioning colostomy

- 44. Acute appedicitis is best diagnosed by
  - (1) History
  - (2) Physical examination
  - (3) X-ray of abdomen
  - (4) Barium meal
- **45.** Hyperparathyroidism is characterised by the following *except* 
  - (1) Generalised osteoporosis
  - (2) Renal calculi
  - (3) Hypercalcemia
  - (4) Osteosclerosis
- 46. Components of normal vaginal secretion are the following except
  - (1) secretion from Bartholin's gland
  - (2) mucus secretion from endocervical glands
  - (3) mucus secretion from vaginal epithelium
  - (4) secretion from endometrial glands
- 47. Ayre's spatula is used in the following procedure:
  - (1) Endocervical biopsy
  - (2) Endometrial biopsy
  - (3) Pap smear
  - (4) Dilatation and curettage

- 48. Following are complications of carcinoma cervix except
  - (1) Pyometra
  - (2) Vesicovaginal fistula
  - (3) Uterine prolapse
  - (4) Hydronephrosis
- 49. Chiari-Frommel syndrome is characterised by following features except
  - (1) Menorrhagia
  - (2) Lactation
  - (3) Hyperprolactinemia
  - (4) Atrophic uterus
- 50. A poor source of iron in the following food items is
  - (1) dry fruit
  - (2) meat
  - (3) milk
  - (4) unrefined jaggery
- 51. Features of HELLP syndrome include
  - (1) Hemolysis
  - (2) Low platelet count
  - (3) Elevated liver enzymes
  - (4) All of the above

- 19
- 52. One of the following agents is **not** used for 56. inducing medical abortion:
  - (1) Misoprostol
  - (2) Methotrexate
  - (3) Mifepristone
  - (4) Oxytocin
- 53. Signs of early pregnancy are the following except
  - (1) Hegar's sign
  - (2) Beck's sign
  - (3) Goodell's sign
  - (4) Jacquemier's sign
- 54. Placenta develops from fusion of Chorion frondosum and
  - (1) Decidua capsularis
  - (2) Decidua basalis
  - (3) Decidua vera
  - (4) All of the above
- 55. Antenatal screening of maternal serum alpha fetoprotein shows increased values in the following fetal malformations except
  - (1) Neural tube defects
  - (2) Down's syndrome
  - (3) Omphalocoel
  - (4) Duodenal atresia

- One among following facts is **not** true about premature baby:
  - (1) Retinopathy is more common
  - (2) Risk of kernicterus is greater
  - (3) Greater heat loss from body
  - (4) Hyperglycemia is common
- 57. All the following methods of contraception may be used by a lactating woman except
  - (1) I,U.C.D.
  - (2) Barrier contraception
  - (3) Combined oral pills
  - (4) Injectable progesterones
- 58. Pap smear should not be taken in the following circumstances except
  - (1) within 48 hours after intercourse
  - (2) within 24 hours of last pelvic examination
  - (3) on the 12<sup>th</sup> day of menstrual cycle
  - (4) in the presence of infection
- 59. Non-puerperal tubal sterilisation can be done by
  - (1) Laparoscopy
  - (2) Mini-laparotomy/
  - (3) Colpotomy
  - (4) All of the above
- 60. Following complication is not seen after vasectomy:
  - (1) Recanalisation of vas
  - (2) Spermatocele formation
  - (3) Testicular carcinoma
  - (4) Development of antisperm antibodies

uca meath

- 61. The following is the cell wall free organism:
  - (1) H. Ducreyi
  - (2) Mycoplasma
  - (3) Candida
  - (4) Mycobacterium
- 62. Infectious mononucleosis is caused by
  - (1) Adenovirus
  - (2) Epstein-Barr virus
  - (3) Rubella virus
  - (4) Cytomegalovirus
- 63. Non-gonococcal uretheritis is caused by
  - (1) Chlamydia trachomatis
  - (2) Mycoplasma hominis
  - (3) N. gonorrhoeae
  - (4) H. Ducreyi?
- 64. Tuberculous bacillus was discovered by
  - (1) Alexander Fleming
  - (2) Robert Koch
  - (3) Louis Pasteur
  - (4) Lord Lister
- 65. A positive Schick test indicates
  - (1) susceptibility to diphtheria
  - (2) immunity to diphtheria?
  - (3) hypersensitivity to C. diphtheriae
  - (4) allergy to C. diphtheriae toxin

- **66.** Which of the following anti-epileptic drugs is safest in pregnancy at present?
  - (1) Carbamazepine
  - (2) Sodium valproate
  - (3) Topiramate
  - (4) Lamotrigine
- 67. Ace-inhibitors are contraindicated in all the following except
  - (1) pregnancy
  - (2) bilateral renal artery stenosis
  - (3) severe cough and angio-edema
  - (4) heart failure
- 68. Successful thrombolysis after acute myocardial infarction is associated with
  - (1) rapid rise of creatine kinase levels
  - (2) rapid fall of CK-MB
  - (3) rapid fall of cardiac troponin-I
  - (4) rapid fall of LDH
- **69.** Differential cyanosis and clubbing is characteristic of
  - (1) VSD with reversal of shunt
  - (2) PDA with reversal of shunt
  - (3) Fallot's tetrology/
  - (4) Ebstein's anomaly
- 70. Best single test to confirm iron deficiency anaemia is
  - (1) Plasma iron
  - (2) TIBC
  - (3) Plasma transferring
  - (A) Plasma ferritin

- 71. Which BMI range in adult is called obesity?
  - (1) 25.0 29.9 7
  - (2) 30.0 39.9
  - (3) Above 40
  - (4) 18.5 24.9
- 72. Casal's necklace is characteristic of
  - (1) Niacin deficiency
  - (2) Thiamine deficiency
  - (3) Biotin deficiency
  - (4) Riboflavin deficiency
- 73. Haemorrhagic skin rashes are present in all the following infections except
  - (1) Yellow fever?
  - (2) Dengue fever
  - (3) Rocky Mountain spotted fever
  - (4) Q-fever
- 74. Persons with sickle cell hemoglobin are protected against
  - (1) severe Plasmodium falciparum infection
  - (2) Plasmodium vivax infection
  - (3) Varicella zoster
  - (4) Plasmodium ovale infection
- 75. In HIV disease for 'sero-conversion and vertical transmission' the following laboratory test is diagnostic:
  - (1) Elisa antibody tests
  - (2) Immuno blot test (Western-blot)
  - (3) CD4 cell count
  - (4) HIV viral load

- 76. Tuberculin skin test as a diagnosis of tuberculus infection
  - (1) has high specificity/sensitivity
  - (2) is useful only in primary or deep seated infection
  - (3) is very useful for diagnosis of reinfection in adults.
  - (4) is very useful in meningeal tuberculosis
- 77. In nephrotic syndrome the prognosis is bad with
  - (1) focal segmental glomerulosclerosis?
  - (2) minimal change disease
  - (3) membranous glomerulonephropathy
  - (4) post-infectious glomerulonephritis
- 78. Urea breath test is used in the diagnosis of
  - (1) H. pylori infection
  - (2) E. coli infection
  - (3) Ulcerative colitis
  - (4) Crohn's disease
- 79. Leucotriene receptor antagonists are used in
  - (1) Bronchial asthma
  - (2) Interstitial lung disease
  - (3) Congestive heart failure
  - (4) 'Acute pulmonary embolism
- 80. Rhombencephalitis and meningitis is characteristic of infection with the following organisms:
  - (1) Pyogenic bacteria
  - (2) Mycobacterial infection
  - (3) Listeria monocytogenes
  - (4) Cryptococcus

(12)

- 86. Commonest cause of hyperparathyroidism is
  - (1) single adenoma
  - (2) multiple adenomata
  - (3) single gland hyperplasia
  - (4) multiple gland hyperplasia
- 87. Splenic vein thrombosis is best treated by
  - (1) Splenectomy
  - (2) Porta-caval shunt
  - (3) Spleno-renal shunt
  - (4) Mesenterico-caval shunt
- 88. Gold standard diagnostic test in varicose veins is
  - (1) Photoplethysmography
  - (2) Duplex imaging
  - (3) Ultrasonography
  - (4) Radio-labelled fibrinogen-study
- 89. Which of the following is an absolute indication for surgery in cases of benign prostatic hyperplasia?
  - (1) Bilateral hydro ureteronephrosis
  - (2) Nocturnal frequency
  - (3) Recurrent urinary tract infection
  - (4) Voiding bladder pressures > 50 cm of water
  - 90. A 60-year-old man presents with an ulcer on lateral margin of tongue, also complains of ear pain. Most probable diagnosis is
    - (1) Dental ulcer
    - (2) Carcinamatous ulcer
    - (3) T.B. ulcer
    - (4) Syphilitic ulcer

- 81. Commonest type of cancer of the renal pelvis and upper ureter is
  - (1) Transitional cell carcinoma
  - (2) Adenocarcinoma
  - (3) Squamous cell carcinoma
  - (4) Nephroblastoma
- 82. Most malignant type of carcinoma breast is
  - (1) Anaplastic carcinoma
  - (2) Scirrhous carcinoma
  - (3) Atrophic scirrhous carcinoma
  - (4) Mastitis carcinomatosa
- 83. Estrogen receptor status in carcinoma breast is done on
  - (1) blood
  - (2) urine
  - (3) tumour tissue
  - (4) ovary
- 84. The most essential feature in reaching a diagnosis of hypertrophic pyloric stenosis is
  - (1) visible peristalsis
  - (2) projectile vomiting
  - (3) loss of weight and dehydration
  - (4) palpation of hypertrophic pylorus
- 85. Haemorrhage from a bleeding duodenal ulcer is due to erosion of
  - (1) superior pancreatico-duodenal artery
  - (2) gastro-duodenal artery
  - (3) right gastric artery
  - (4) left gastric artery

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- 91. If a substance appears in the renal artery but not in renal vein
  - (1) its clearance is equal to GFR
  - (2) it must be reabsorbed by the kidney
  - (3) the urinary concentration must be higher than its plasma concentration
  - (4) its clearance is equal to renal plasma flow
- 92. Stroke volume can be increased by which of the following?
  - (1) Increasing venous compliance
  - (2) Decreasing ventricular compliance
  - (3) Increasing heart rate
  - (4) Decreasing total peripheral resistance
- 93. Which one of the following muscle proteins plays an important role in contraction of both smooth and striated muscles?
  - (1) Troponin
  - (2) Tropomyosin
  - (3) Actin?
  - (4) Myosin light chains
- 94. An 18-year-old male is brought to hospital after eating poisonous mushrooms rich in alkaloid <u>muscarine</u>. Which one of the following signs is seen?
  - (1) Bradycardia
  - (2) Dilatation of pupil
  - (3) Skeletal muscle contraction
  - (4) Hypertension

Muscasinic E

- 95. Buffers are solutions having as composition
  - (1) a pair of strong acid and strong base
  - (2) a pair of weak acid and its salts with a strong base
  - (3) a pair of weak acid and weak base
  - (4) a pair of two weak bases
- 96. Vitamin K is directly involved with the following enzymatic action:
  - (1) Synthesis of prothrombin
  - (2) Activation of factor X
  - (3) Conversion of fibrinogen to fibrin
  - (4) Regulation of blood calcium
- 97. Which is the active form of vitamin D?
  - (1) Calcitonin
  - (2) 1,25-dihydroxycholecalciferol
  - (2) 7-dehydrocholesterol
  - (4) Ergosterol
- 98. What is the vitamin synthesised from an amino acid, Tryptophan?
  - (1) Ascorbic acid
  - (2) Pantothenic acid
  - (3) Nicotinic acid
  - (4) Folic acid
- 99. Which of the following is necessary for the emulsification of lipids?
  - (1) Cholesterol
  - (2) Bile pigments
  - (3) Bile salts
  - (4) Steroids

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(14)

100. McArdle's disease is caused due to deficiency 104.

- (1) Glycogen synthase
- (2) Branching enzyme
- (3) Debranching enzyme
- (4) Glycogen phosphorylase

101. The number of hydrogen bonds present between the pairs of guanosine nucleotide and cytosine nucleotide is/are

(1) two

BEC

- (2) one
- (3) four

(4) three

102. The end product of purine catabolism in other mammals except man is

- (1) Uric acid
- (2) Allantoin
- (3) Ammonia
- (4) Creatinine

103. Kidneys contribute to Acid - Base balance by

- (1) regulating  $pCO_2$  ?
- (2) decreased carbon dioxide uptake
- (3) increased ketogenesis
- (4) secretion of ammonia

HT + HCG HCGZ -> Kickneys.

04. Calcium is required for the activation of the enzyme

- (1) Isocitrate dehyrogenase
- (2) ATPase
- (3) Fumerase
- (4) Succinate thickinase

105. The most prominent cause of dehydration i

- (1) excessive heat
- (2) low intake of water
- (3) frequent urination
- (4) diarrhoea and vomiting

106. Acid phosphatase levels are increased in

- (1) Brain tumour
- (2) Prostatic cancer
  - (3) Lung cancer
  - (4) Breast cancer

107. Infant death below 3 years occurs in following glycogen storage disorders:

- (1) Type L
- (2) Type II
- (3) Type V
- (4) Type VIII

		0 )	
108.	The link between urea cycle and citric acid cycle is due to formation of	112.	During conversion of acetyl-CoA to ketone bodies, the intermediate compound is
	(1) Arginine		(1) phosphotidic acid
, , ,	(2) Ornithine		(2) phophotidylinositol
	(3) Citrocillin		(3) 3-hydroxy 3-methyl glutaryl CoA
	(4) Fumarate		(4) 2-monoglyceride
109.	Most naturally occurring DNA molecules are		
1	(1) relaxed coiled	113.	Chronic complication in diabetes mellitus is due to
	(2) not coiled		(1) enzyme protein glycation
	<ul><li>(3) positively super coiled</li><li>(4) negatively super coiled</li></ul>		(2) decreased production of sorbitol
	(1) Hogawyoly Buper contect		(3) decreased levels of myo-inositol
110.	Negative nitrogen balance is produced in		(4) increased levels of myo-inositol
	humans by elimination from the diet of all the following except	211	The transport of glucose is facilitated by
	(1) Leucine		GLUT in the following organ:
	(2) Serine		(1) Brain
	(3) Lysine		(2) Heart (3) Liver
V 10	(4) Threonine		(4) Intestine?
111.	Most important compensation mechanism in		
	metabolic acidosis is	115.	The conversion of cholecalciferol occurring in liver is by
	(1) Hyperventilation		(1) 1-alpha hydroxylation
	(2) Increased NH <sub>3</sub> excretion by kidneys		(2) 1,25-hydroxylation
*.	(3) Increased urinary phosphates		(3) 4-hydroxylation
	(4) Increased HCO <sub>3</sub> production		

(4) 25-hydroxylation

SAC/554 116. Actions of pilocarpine include all the following except (1)Sweating (2)Salivation Miosis (3) Cycloplegia (4)117. All are true of nitrous oxide anesthesia except rapid on set and rapid recovery chances of hypoxia (2)very good analgesic very good muscle relaxant Use of morphine is indicated in the following condition: (1) Head injury Acute myocardial infarction? Acute abdominal pain before diagnosis Bronchial asthma 119. One of the following is a non-benzodiazepine sedative hypnotic: (1) Clonazepam Oxazepam (3) Nitrazepam (4) Zolpidem Which of the following terms best describes a drug that blocks the actions of epinephrine at its receptors by occupying those receptors without activating them? (1) Pharmacological antagonist **(2)** Physiological antagonist

Partial agonist

Non-competitive antagonist

(3)

6)		
121.	Uml	oilical cord has at birth
	SIS	two arteries + one vein
	(2)	two arteries + two veins
	(3)	one artery + two veins
	(4)	all arteries only
100	<b>.</b>	ctional unit of kidney is
122.		Osteon
		Nephron
		Neuron
		Tubule
123.	Abd	uction at shoulder joint is produced by
	,£ī,ĭ	Deltoid muscle
C	(2)	Infra spinatus
	(3)	Teres major
	(4)	Teres minor
124.	All	of the following structures traverse t
		margin of the lesser omentum except
	(1)	Portal vein
	1(2)	Inferior vena cava
	(3)	Hepatic artery
	(4)	Bile duct
125		e structure to be protected while ligati rine arteries during hysterectomy, is
	(1)	Inferior vesical artery
	(2)	Middle rectal artery
	(3)	Ureter §
1	(1)	Daluis galenahnia namag

(4) Pelvic splanchnic nerves

- 126. Maturation of the spermatozoa
  - (2) occurs in the testes
  - (2) involves changes in contents of DNA
  - (3) involves the process of capacitation
  - (4) requires prostaglandins
- 127. Collecting ducts of the nephron of the kidney develop from
  - (1) Ureteric bud ?
  - (2) Metanephric tubules
  - (3) Mesonephric tubules
  - (4) Paramesonephric duct?
- 128. Normal position of uterus in pelvis is
  - ante version and ante flexion
  - (2) retro version and retro flexion
  - (3) mid position
  - (A) ante version and retro flexion
- 129. Blood is brought to liver by
  - (1) Hepatic vein
  - (2) Portal vein
  - (3) Phrenic veins
  - (4) Azygos vein
- 130. Gastric motility is enhanced by stimulation of
  - (1) Vagus nerve
  - (2) Phrenic nerve
  - (3) Sympathetic nerves
  - (4) Trigeminal nerve

- 131. Enzyme renin is contained in
  - (1) Lacis cells
  - (2) Macula densa cells
  - (3) Proximal convoluted tubular cells
  - (4) Juxtaglomerular cells
- 132. Thromboxane A2 is produced mainly by one of the following:
  - (1) Damaged tissue
  - (2) Liver
  - (3) Platelets
  - (4) Vascular endothelium
- 183. Fragmented red blood cells are **not** found in one of the following:
  - (1) Vasculitis
  - (2) Idiopathic thrombocytopenic purpura
  - (3) Malignant hypertension
  - (4) Disseminated intravascular clotting
- 134. Cheyne-Stokes breathing is seen in all of the following conditions except
  - (1) High altitude
  - (2) Left ventricular failure
  - (3) Diabetes mellitus
  - (4) Voluntary hyperventilation
- 135. All of the following parameters can be estimated by spirometer except
  - (1) forced expiratory volume
  - (2) total lung capacity
  - (3) vital capacity
  - (4) peak expiratory flow rate

- 136. Which of the following sensations is most | 141. A wave in Electroretinogram is caused by the affected by cortical lesion?
  - Temperature
  - **(2)** Crude touch
  - (3)Proprioception
  - (4) Itch
- 137. Reabsorption of one of the following 142. substances in renal tubules is not subjected to physiological regulation:
  - **(1)** Glucoso
  - (2)Sodium
  - (3)Potassium
  - (4) Water
- 138. Increasing the after load in the muscle has all but one of the following effects:
  - Decreases the velocity of shortening
  - Increases the force generation during shortening
  - Increases the amount of shortening
  - Increases the interval between excitation and shortening
- 139. Lysis of red blood cells to oxidant stress, a side-effect of many drugs, is most likely due to
  - (1) deficiency of 2,3-DPG
  - deficiency of reduced glutathione
  - deficiency of G-6PD (glucose 6-phosphate dehydrogenase)
  - lack of hexokinase **(4)**
- If a patient is unable to hear high frequency sounds, the damage to the basilar membrane is closest to which of the following?
  - (1) Helicotrema
  - **(2)** Oval window
  - (3)Stria vascularis
  - (4)Modiolus

- activity of one of the following:
  - Ganglion cell layer
  - (2)Nerve fibre layer
  - (3) ' Rods and cones
  - (4)Pigment epithelium
- A patient with history of malnutrition presents with swelling of ankles and bloate abdomen. The bloated abdomen may be du to one of the following:
  - Decreased capillary colloidal osmotil pressure
  - (2)Increased intestinal gas
  - (3)Slow and chronic abdominal haemorrhage
  - (4)Increased capillary hydrostatic pressure
- Place theory is concerned with one of the following:
  - (1) Mechanism of colour vision
  - Mechanism of pitch discrimination
  - (3)Mechanism of image formation
  - (4) Mechanism of perception of taste sensation
- 144. Which  $\mathbf{of}$ one. the following is not autoimmune disease?
  - Multiple sclerosis
  - Insulin dependent diabetes mellitus (2)
  - (3)Rheumatoid arthritis
  - (4) Hypothyroidism
- 145. All of the following except one increase gastric secretions:
  - (1)Vagal stimulation
  - (2)Gastrin
  - Stomatostatin
  - Histamine

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SAC/554 (19)46. Respiratory distress syndrome in infants is 149. In one of the following sensory receptors, K+ caused by insufficient secretion of one of the influx produces receptor potentials: following: Olfaction Phosphatidylinositol **(1)** Audition (2) (2)Cholesterol (3)Taste Sphingomyelin (3) (4) Touch Dipalmitylphosphatidylcholine (4) 150. The earliest manifestation of hypofunction of 147. Phasic blood flow occurs in which one of the bone marrow is reflected in following? (1) Lower red cell count Brain (1)(2) Leukopenia (2)Liver (3) Decline in reticulocyte count (3) Heart Appearance of thrombocytopenia (4) Kidney 148. Gastro intestinal hormones are the following except -(1) Glucagon (2) Serotonin Cholecystokinin-P2 Vasoactive intestinal peptide