Pathology 3 Workbook Answers 2010

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1.	Which of the following is due to a failure of the bone marrow to form red blood cells.
	a. insufficient number of red blood cells
	b. decreased amount of haemoglobin within the 1RBC
	c. nutritional anaemia
	d. aplastic anaemia
	e. alteration in shape of red blood cells
2	Dad blood calls that are arrelled than named are called
2.	Red blood cells that are smaller than normal are called
	a. normocytic
	b. microcytic
	c. macrocytic
	d. hypochromic
3.	Extrinsic intrinsic factor functions to bind with vitamin B12 in ingested foods.
4.	Haemorrhagic / haemolytic an anaemia is an anaemia due to the destruction of blood cells.
5.	An increased size and activity of the spleen is called splenomegaly. T/F
4	Describe the function of anythrone cities
υ.	Describe the function of erythropoeitin to stimulate the bone marrow to increase the rate of red blood cell production
	to stimulate the bone marrow to increase the rate of red blood cen production
7.	The average amount of haemoglobin within a red blood cell is tested by which of the following
	tests
	a. full blood count
	b. haematocrit
	c. mean cell volume
	d. mean cell haemoglobin

8. Polycythemia rubra vera is a type of **primary** secondary polycythemia.

- 9. The process of producing new platelets is called **thrombopoeisis / thrombopoeitin**.
- 10. Which of the following is not a stage of haemostasis.
 - a. vascular spasm
 - b. platelet plug formation
 - c. blood clotting
 - d. scar tissue formation
- 11. In vasoconstriction of a blood vessel, the lumen to become **smaller / larger**.
- 12. Identify the cells in the bone marrow that form the platelets. megakaryocytes
- 13. Platelet **adhesion** / **aggregation** is the process of the platelets attaching to the walls of the damaged blood vessels.
- 14. Blood clotting occurs in a process with **three** / **five** stages.
- 15. Haemophilia **A** / **B** occurs due to a deficiency of clotting factor VIII.
- 16. Passing blood into the faeces is seen as
 - a. bleeding during teeth brushing
 - b. haematemesis
 - c. melena
 - d. haemarthrosis
- 17. Hypovolemic shock can be caused by many factors, including
 - a. loss of whole blood as in bleeding (externally or internally) from trauma
 - b. loss of blood plasma (as in burns that form blisters and ooze fluid)
 - c. loss of extracellular fluid (such as in diarrhoea or vomiting)
 - d. all of the above
- 18. Which of the following is not a sign or symptom of hypovolemic shock
 - a. reduced cardiac output (leading to hypotension and circulatory insufficiency)

- b. bradycardia (decreased heart rate)
- c. pallor, restlessness and decreased urine output

- 1. Which of the following is not a branch of the arch of the aorta
 - a. brachiocephalic
 - b. left common carotid
 - c. left subclavian
 - d. superior vena cava
- 2. A sphygmomanometer is used to measure **temperature** / **blood pressure**.
- 3. In a normal blood pressure of 120 / 80 mm Hg, which figure is the systolic measurement.
 - a. 120
 - b. 80
 - c. neither of the above
- 4. A blood pressure reading of (140 / 95 mm Hg) is described as **hypertension** hypotension.
- 5. Orthostatic hypotension causes the patient to faint when rising from a sitting or lying position to standing.
- 6. Which of the following is not a description of hypertension
 - a. mild hypertension
 - b. moderate hypertension
 - c. severe hypertension
 - d. gross hypertension
 - e. significant hypertension
- 7. Which chamber of the heart has the greatest thickness of cardiac muscle in the myocardium.
 - a. left atrium
 - b. right atrium
 - c. left ventricle

d.	right	ventricle
u.	115111	VCIITITOIC

8. There are no implications to the kidneys from cardiovascular hypertension.

T/F

- 9. **Renin** angiotensin converting enzyme converts an inactive plasma protein called angiotensinogen into angiotensin I.
- 10. Which of the following is not a mechanism by which angiotensin II raises blood pressure.
 - a. vasoconstriction of the efferent arterioles
 - b. generalised peripheral vasoconstriction
 - c. inhibition of the release of aldosterone
 - d. stimulation of the release of antidiuretic hormone
 - e. stimulation of the thirst centre of the hypothalamus
- 11. Varicose veins are due to the incompetence of the valves within the vein.



- 12. DVT's usually affect the **sedentary / active** individual.
- 13. Which of the following is not a part of Virchow's triad.
 - a. changes in the wall of the blood vessel
 - b. changes in the health of the individual
 - c. changes in the blood flow
 - d. changes in the composition of the blood
- 14. A stroke is more technically referred to as a **cerebral / pulmonary** embolism.
- 15. **Ischaemia / infarction** is characterised by a lack of blood passing to a tissue or organ.
- 16. Atherosclerotic lesions are defects in the tunica **intima** media of arteries.
- 17. Foam cells are formed from monocytes lymphocytes.
- 18. Which of the following major risk factors for atherosclerosis can not be changed.

- a. heredity
- b. cigarette smoking
- c. high blood pressure
- d. high levels of saturated fat in the diet
- 19. Describe why the pain of angina pectoris occurs on exercise but relieves on rest.

At rest, there is a reduced requirement for oxygen and nutrients so there may be adequate blood passing the plaque to supply the tissue. In activity however, the heart muscle tissue requires more oxygen and nutrients and therefore the amount of blood that passes the lesion is not great enough and so the area supplied by that vessel becomes ischaemic.

- 20. Which of the following is described as paleness of the skin due to the lack of blood.
 - a. pain
 - b. pallor
 - c. pulseless
 - d. parasthesia
 - e. paralysis
 - f. perishing with cold
- 21. Raynaud's phenomenon is a strong vasoconstriction of the coronary arteries.

T/F

22. Berry aneurysms are common at bifurcation of arteries.

T/F

- 23. The spleen is located in the upper **left / right** portion of the abdomen.
- 24. Describe why splenic rupture without capsular rupture is more dangerous than a splenic rupture with associated rupture of the capsule.

If the spleen ruptures without the capsule also rupturing, then the bleeding will be into the space between the capsule and the organ. This gradually stretches and weakens the capsule, eventually rupturing one to two weeks post injury. This is more dangerous as it may occur in a non traumatic setting and he patient will be unaware that they have ruptured the spleen.

- 1. Which valve is located between the right atrium and right ventricle.
 - a. tricuspid valve
 - b. bicuspid valve
 - c. aortic valve
 - d. pulmonary valve
- 2. The **visceral / parietal** pericardium directly surrounds the heart.
- 3. The blood flowing through the left side of the heart is **oxygenated** deoxygenated.
- 4. **Pericarditis** / **endocarditis** is diagnosed by the presence of a friction rub that is heard on cardiac auscultation.
- 5. Pericardial tamponade may be due to a rupture of the wall of the **ascending / descending** aorta.
- 6. Which of the following is the most commonly associated with coronary artery blockage.
 - a. circumflex artery
 - b. right coronary artery
 - c. right marginal branch
 - d. left anterior descending artery
- 7. The pain of angina pectoris may be described as
 - a. chest pain that is usually located behind the sternum
 - b. a tight band around the chest
 - c. either of the above
 - d. neither of the above
- 8. In an ECG, The P wave denotes
 - a. atrial depolarisation
 - b. atrial repolarisation
 - c. ventricular repolarisation

d.	ventricular	dono	lorication
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9. Describe why a stress ECG might be performed in assessing angina pectoris_____

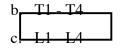
to challenge the heart by increasing the demands placed on it to show any lesions that may occur in the coronary circulation of other heart structures.

10. Myocardial infarction is the death of the myocardial cells due to lack of blood.

T/F

11. The pain of a heart attack commonly refers to which of the following dermatomes

a. C1 - C4



- d. S1 S4
- 12. Complications following a myocardial infarction are due to the
 - a. scar tissue formed as a result of healing the damaged cells of the myocardium
 - b. disruption of the blood flow through the heart during the myocardial infarction
 - c. exacerbation of the stress response from the myocardial infarction
 - d. all of the above
 - e. none of the above
- 13. The pain of **angina pectoris** / **myocardial infarction** is not relieved by rest.
- 14. The great saphenous / brachial vein is commonly used for a coronary artery bypass.
- 15. Due to increased blood pressure, the muscle tissue of the left ventricle increases in a process called left ventricular hypertrophy / hyperplasia.
- 16. Which of the following is a type of heart failure
 - a. bilateral heart failure
 - b. congestive heart failure
 - c. collective heart failure

17. **Left / right** sided heart failure causes pulmonary oedema.

18. Which if the following is a cause of arrhythmia.
a. electrolyte disturbance
b. infection
c. hormonal imbalance
d. alterations in pH
e. all of the above
f. none of the above
19. Which of the following is caused by multiple areas of the conduction system discharging
impulses at the same time.
a. bradycardia
b. tachycardia
c. palpitations
d. fibrillation
20. The mitral valve is located on the left right side of the heart.
21. Heart valve stenosis / incompetence allows regurgitation of blood into the previous heart structure.
22. Episodic effects of waking up at night gasping for breath is called
a. dyspnoea on exertion
b. orthopnea
c. paroxysmal nocturnal dyspnoea
23. Auscultation of the heart is listening to the heart via a stethoscope. T/F
24. Acute subacute bacterial endocarditis affects healthy heart valves.

25. A condition of patent foramen ovale allows deoxygenated blood entering the right atrium to pass

through the foramen ovale into the left atrium instead down into the right ventricle.

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nit	$\underline{4}$
1.	Which of the following is not a granulocyte
	a. neutrophil
	b. eosinophil
	c. basophil
	d. monocyte
2.	The T cells are formed in the bone marrow and pass to the thymus gland to mature.
3.	If the APC is a macrophage then the helper T cell is stimulated to be come a TH1/Th2.
4.	A decreased number of all types of white blood cells is defined as leukopenia leukocytosis
5.	Lymphangitis is
	a. inflammation of lymphatic vessels
	b. inflammation of lymph nodes
	c. inflammation of lymph nodules
6.	Lymphoedema is due to obstruction to lymphatic flow.
7.	Leukemia occurs when there is an excessive production of
	a. white blood cells
	b. red blood cells
	c. platelets
8.	Acute / chronic lymphocytic leukaemia tends to affect children more than adults.
9.	Which of the following is not a common feature of leukaemia
	a. anaemia

b. easy bleeding

c. poor immunity

e. enlargement of bone marrow	
10 Hodgkin's Non-Hodgkin's lymphoma may be associated with infection with the Ep	stein Barr
virus.	
11. Which of the following classifications of Hodgkin's lymphoma indicates multiple lyn	mph node
involvement on either aspect of the diaphragm without involvement of other structures	•
a. stage I	
b. stage II	
c. stage III	
d. stage IV	
12 Non-Hodgkin's / Hodgkin's lymphoma commonly affects older individuals.	
13. Multiple myeloma is a malignant lesion of a plasma cell located within bone marrow.	T/F
14. Bence Jones proteins are formed from the light / heavy chain portion of antibodies.	
15. Anaphylactic reactions are a type of	
a. type I hypersensitivity reaction	
b. typeII hypersensitivity reaction	
c. type III hypersensitivity reaction	
d. type IV hypersensitivity reaction	
16. Both mast cells and basophils are able to release histamine.	T/F
17 Atonic means that an allergic hypersensitivity is not genetically inherited	T/F

18. The allergens that people may be exposed to include

- a. airborne allergens
- b. contacted allergens
- c. ingested allergens
- d. all of the above

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19.	Diagnosis	of suspected	allergies 1	may oc	ccur via	assessing	the blood	levels of
	0	1	0			0		

- a. IgA
- b. IgD
- c. IgE
- d. IgG
- e. IgM

20. In anaphylaxis, histamine causes

- a. vasoconstriction
- b. bronchoconstriction
- c. both vasoconstriction and bronchoconstriction
- d. neither vasoconstriction nor bronchoconstriction

21. The natural killer cell performs antibody mediated cytotoxic immune responses in

- a. type II hypersensitivity reactions
- b. type III hypersensitivity reactions
- c. type IV hypersensitivity reactions

23. SLE might cause a butterfly rash on the

- a. face
- b. chest
- c. back
- 24. Diagnosis of SLE might include a blood test to detect ANA antibodies.

T/F

25. Myaesthenia gravis is an autoimmune condition in which antibodies are formed against normal receptors for

- a. acetyl choline
- b. dopamine
- c. noradrenalin
- 26. Signs and symptoms of myaesthenia gravis include all of the following except
 - a. muscle weakness
 - b. fatigue
 - c. hypertrophy of skeletal muscles
- 27. Which of the following affects the facet joints in the spine, leading to characteristic postural changes
 - a. scleroderma
 - b. ankylosing spondylitis
 - c. rheumatoid arthritis
 - d. diabetes mellitus (type I)

1.	Which of the following may cause a common cold
	a. rhinoviruses
	b. respiratory synctial virus
	c. para-influenza virus
	d. any of the above
	e. non of the above
2.	Rhinorrhea is an increased nasal secretion.
3.	Cells infected by a virus are destroyed by exocytosis phagocytosis .
4.	The most contagious time in a common cold is the first 3 days / weeks after onset of symptoms
5.	The length of infection in a common cold is approximately 7 days.
6.	Describe why antibiotics are not recommended for treating a common cold
	the common cold is caused by a virus and so will not respond to antibiotics
7.	Which of the following types of influenza is most involved in infecting humans a. type A b. type B c. type C
8.	Myalgia is defied as muscle / eye pain.
9.	On average the length of infection of influenza is shorter /longer than that of a common cold.
10	. Infection or inflammation of the vocal cords is
	a. pharyngitis
	b. tonsillitis
	c. laryngitis

d. epiglottitis	
11. An abscess of the tonsils is a collection of fluid such as pus within the tonsil.	T/F
12. A productive non-productive cough produces sputum is upon coughing.	
13. Croup most commonly occurs in a. young children or babies b. teenage children c. adults d. elderly adults	
 14. The cough involved in croup has a characteristic sound that is often described as a a. seal barking b. owl hooting c. cat miaowing d. cow mooing 	
15. Fluid within sinuses will will not be evident on an x ray of the sinuses.	
16. Bronchiolitis is due to a virus / bacterium causing disease in the bronchioles.	
17. Dyspnoea is difficulty in breathing / coughing .	
18. A complication of bronchiolitis is destruction of lung tissue that lasts through life.	T/F
19. Bronchiectasis is a dilation narrowing of the bronchi.	
20. The cough of bronchiectasis is usually not productive.	T/F

bronchiectasis

21. Which of the following is an investigation used in the investigation and diagnosis of

b.	colonoscopy	
c.	bronchoscopy	
22. Pneun	nonia may be caused by	
a.	virus	
b.	bacteria	
c.	parasites	
d.	any of the above	
e.	none of the above	
23. Which	n of the following affects an entire lobe of the lung	
a.	bronchopneumonia	
b.	lobar pneumonia	
c.	segmental (lobular) pneumonia	
24. Inflam	nmatory changes in pneumonia cause the alveoli of the area to fill with fluid / air .	
25. Bronc	hopneumonia usually causes a productive cough with	
a.	yellow sputum	
b.	green sputum	
c.	either yellow or green sputum	
d.	neither yellow nor green sputum	
26. Which	n of the following complications of pneumonia does not affect the heart	
a.	meningitis	
b.	pericarditis	
c.	endocarditis	
27. Tuber	culosis causes mild symptoms and is not a fatal disease.	Γ/F
28. Which	n of the following is not a type of tuberculosis	
a.	primary TB	

b. secondary TB

c. tertiary TB

29. In a tuberculosis infection, a Ghons focus consists of
a. tubercle bacillus
b. macrophages
c. immune cells
d. all of the above
e. none of the above
30. Haemoptysis (coughing up blood) may occur in tuberculosis infection.
31. X ray scans do not show changes in the lungs following tuberculosis infection.
32. Which of the following is not a feature of asthma
a. an increase in the secretions of the bronchi and bronchioles
b. bronchoconstriction due to contraction of the smooth muscles of the airways
c. decreased release of histamine in response to allergic stimuli
33. Asthma is the only respiratory condition that produces a respiratory wheeze.
34. In asthmatic individuals, the residual volume is usually increased / decreased .
35. Hypoxemia is the condition of having increased pxygen in the blood.
36. Describe why a spacer is recommended for patients who use a puffer device for the
management of their asthma. to prevent the molecules from colliding onto the posterior
aspect of the oropharynx and allowing them to pass into the airways where they have the
most effect

- 37. Chronic Obstructive Pulmonary Disease consists of
 - a. chronic bronchitis only
 - b. emphysema only
 - c. either chronic bronchitis or emphysema

d. neither chronic bronchitis nor emphysema	
38. A patient suffering from chronic bronchitis / emphysema is referred to as a blue bloater.	
39. Emphysema is most related to the older patient who has a. smoked for a long period of time b. consumed alcohol for a long period of time c. consumed a large amount of fat for a long period of time	
40. Emphysema is due to a destruction of the walls of the alveoli in the lungs. Describe why results in breathlessness and fatiguethere is a decrease in the surface area of alveoli that reduces the ability of the alveoli to exchange gasses with the blood and results and the surface area.	the
in breathlessness and fatigue due to hypoxia of the tissues	
41. Which of the following is not a classification of emphysema a. alveolar b. centrilobar c. cortical	
42. Complications of emphysema include respiratory acidosis / alkalosis.	
43. Bronchitis is due to increased / decreased mucous secretions of the epithelial lining of bronchi and bronchioles.	the
44. Simple chronic pronchitis is most associated with morbidity or mortality.	
45. A chest X ray is the most appropriate test to identify chronic bronchitis.	F
46. A pulmonary embolism may be due to	

a. atrial fibrillation

b. oral contraceptive pill

c. injuries such as fractures

- d. pregnancy
- e. all of the above

47. W	hich	of the following tumours of the larynx are malignant	
	a.	polyps	
	b.	papillomas	
	c.	squamous cell carcinomas	
48. Lu	ng t	rumours most often affect females more then males.	T/F
49. As	sess	sment of a lung tumour may include bronchoscopy with biopsy of suspect tissue.	Т <i>/</i> Г
50. C €	entr	al obstructive sleep apnoea is most commonly associated with obesity.	

51. Inhaled asbestos may be damaging to cells of the respiratory system.

1.	Small	painful	ulcers	with	white	bases	and	surrounding	localised	inflammatory	response	is
	charac	teristic o	of									

- a. stomatitis
- b. aphthous stomatitis
- c. gingivitis
- d. cheilosis
- e. glossitis
- 2. Which of the following conditions is not noted for causing halitosis.
 - a. sinusitis
 - b. post nasal drip
 - c. tonsillitis
 - d. gastro-oesophageal reflux disease (GERD)
 - e. appendicitis
- 3. State one activity that is linked with an increased incidence of oral cancer_______

 chewing tobacco
- 4. Difficulty in swallowing is called **dysphagia / dyspnoea.**
- 5. Which of the following conditions is not a type of hiatus hernia
 - a. sliding hiatus hernia
 - b. slipping hiatus hernia
 - c. para-oesophageal hiatus hernia
- 6. GERD is called gastro-esophageal respiratory disease.

TF

- 7. Which of the following is not an antacid that neutralises hydrochloric acid (HCl) of the gastric juices.
 - a. NaOH
 - b. NaCl

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- 8. Oesophageal varices is caused by portal **hypotension** hypertension.
- 9. Chronic gastritis may be characterised by ulcerations and necrotic lesions, whilst acute gastritis relates more to an inflammatory state of the mucosa.
- 10. Helicobactor pylori bacteria are most associated with **peptic ulcers** oesophagitis.
- 11. Darkly coloured stools showing the presence of blood in the stool are referred to as haemaemesis melena.
- 12. Most malignant neoplasms of the stomach are in the
 - a. pyloric region
 - b. fundal region
 - c. cardiac region
- 13. Gastroenteritis is defined as inflammation of the stomach and intestines.

T/F

14. Gastroenteritis is not caused by bacterial infection.

TF

- 15. Metabolic acidosis in gastroenteritis occurs from diarrhoea / vomiting.
- 16. Lactose intolerance is due to a deficiency of lactase lactose.
- 17. Steatorrhoea is diarrhoea that is
 - a. pale
 - b. frothy
 - c. foul smelling
 - d. able to float on the water in the toilet
 - e. all of the above
 - f. none of the above

18. 0	Coeliac disease occurs is	n response to a pro	tein that is fo	ound in gluten	which is present	in all of
t	he following except:					

- a. barley
- b. oats
- c. rice
- d. wheat
- 19. In coeliac disease, the destruction of the microvilli and villi **increases** he absorptive area of the digestive tract.
- 20. Crohns disease most commonly affects the terminal portion of which of the following parts of the small intestine
 - a. ileum
 - b. jejunum
 - c. duodenum
- 21. The skip lesions of Crohns disease are
 - a. red, swollen and inflamed areas of intestine
 - b. ulcerated areas of intestines
 - c. sections of normal mucosa between ulcerations
- 22. **Volvulus Intussusception** occurs when a portion of the intestine telescopes into another section.
- 23. Appendicitis is always due to a viral infection.

TF

- 24. The pain of appendicitis usually starts
 - a. in the lower right quadrant of the abdomen and migrates to the centre
 - b. in the centre of the abdomen and migrates to the lower right quadrant
 - c. in the lower left quadrant of the abdomen and migrates to the centre
 - d. in the centre of the abdomen and migrates to the lower left quadrant

25. The nerve supply of the peritoneum is via the somatic / autonomic nervous system.	
26. Pseudopolyps are a feature of ulcerative colitis coeliac disease.	
27. The signs and symptoms of ulcerative colitis may include all of the following except	
a. diarrhoea	
b. the stools may contain blood	
c. inflammation of the urethra	
d. fever	
e. cramping abdominal pain	
28. Infection of diverticulae is called diverticulitis / diverticulosis .	
29. Diverticulae are most associated with low/high fibre diets.	
30. A barium enema with x ray is most commonly used to diagnose acute diverticulitis.	F
31. Irritable bowel syndrome is described as a structural functional disorder of the bowel.	
32. Borborygmi are defined as	
a. bloating or distension of the abdomen	
b. audible sounds of intestinal activity	
c. changes to the timing, frequency and nature of the stools upon defecation	
d. chronic mucous secretions per rectum leading to itchiness	
33. Internal naemorrhoids are located near the anal orifice and may protrude.	
34. Small amounts of bight blood on toilet tissue will always indicate haemorrhoids and will_	not
need to be checked by a doctor.	F
35. One cause of polyps of the colon is lack of dietary fibre / fats .	
36. Primary malignant neoplasms of the colon are usually adenocarcinomas.	F

- 37. Which of the following conditions predisposes to malignant neoplasms of the colon
 - a. coeliac disease
 - b. irritable bowel syndrome
 - c. ulcerative colitis
- 38. Investigations for malignant neoplasms of the colon include a barium enema, which shows a characteristic
 - a. apple core presentation
 - b. banana appearance
 - c. orange segment appearance
 - d. pear shaped appearance

- 1. Acute pancreatitis is characterised by all of the following except
 - a. sudden and severe pain in the middle of the abdomen.
 - b. pain feels as if it is radiating through the body to the back
 - c. strong pain experienced in the left lower portion of the abdomen
- 2. Which of the following is a complication of acute pancreatitis
 - a. areas of destruction within the tissue that may cause an abscess
 - b. long term diabetic-like effects
 - c. renal failure
 - d. all of the above
 - e. none of the above
- 3. **Acute chronic** pancreatitis is usually due to prolonged and excessive alcohol ingestion.
- 4. The steatorrhea that is experienced in chronic pancreatitis is due to **increased** / **decreased** bile induced emulsification.
- 5. The blood levels of **conjugated unconjugated** bilirubin increases in chronic pancreatitis.
- 6. The majority of pancreatic cancers arise in the
 - a. head of the pancreas
 - b. body of the pancreas
 - c. tail of the pancreas
- 7. The pain of pancreatic cancers radiates through to the back / pelvis.
- 8. Cystic fibrosis causes a reduced movement of **chloride** calcium across membranes.
- 9. Due to the alterations of the pancreatic secretions, infections are not common in the patient with cystic fibrosis.

10. Hyperinsulinemia causes a decreased response in the target cells of insulin due to up / down regulation of receptors
11. The major cause of liver failure is alcohol ingestion.
12 Fatty changes cirrhosis of the liver is reversible if the stimulus is reduced.
13. Excessive alcohol ingestion is the only cause of cirrhosis of the liver. T
14. A common consequence to cirrhosis is porta hypertension hypotension.
15. Which of the following dilations of blood vessels is not a consequence of the condition identified in the previous question.
a. distal oesophageal blood vessels
b. peri-anal blood vessels
c. coronary blood vessels
d. peri-umbilical blood vessels
16. Decreased liver function reduces albumin formation, which increases / decreases blood colloid osmotic pressure.
17. Ascites is the name given to fluid collection in the a. pleural cavity
b. peritoneal cavity c. pericardial cavity
18. Jaundice occurs when there is decreased conjugation of bile bilirubin.
19. Following haemolysis, the iron portion of the red blood cell passes to the liver bound to a
transport substance called

a. **transferrin**

- b. ferrin
- c. ferritin
- 20. Jaundice causes the skin and sclera to appear
 - a. blue
 - b. green
 - c. yellow
- 21. The presence of gall stones blocking the bile ducts may cause
 - a. prehepatic jaundice
 - b. hepatic jaundice
 - c. post-hepatic jaundice
- 22. Infectious hepatitis is most commonly caused by viruses bacteria.
- 23. Which of the following causes only acute hepatitis and not a chronic condition
 - a. Hepatitis A
 - b. Hepatitis B
 - c. Hepatitis C
- 24. Hepatitis C is transmitted by all of the following except
 - a. IV needle sharing
 - b. tattooing
 - c. sexual contact
 - d. saliva
- 25. Hepatosplenomegaly refers to enlargement of the
 - a. liver only
 - b. spleen only
 - c. liver and spleen together
 - d. neither liver nor spleen
- 26. Which of the following is not a common substance assessed in a liver function test

a. ALT
b. AMT
c. AST
27. Most neoplasms of the liver are
a. primary lesions
b. secondary lesions that have metastasised from primary lesions elsewhere in the body
c. neither of the above
28. Icterus (itchy skin) is due to the storage of bilirubin in the skin.
29 Cholelithiasis cholecystitis is the condition of having stones in the gall bladder.
30. Febrile refers to experiencing an increased temperature / sweat production.
31 Acute / chronic cholecystitis relates to the invasion of the gall bladder environment by secondary organisms following the stasis of the bile.
32. Describe why ultrasound is more effective than x ray in identifying gall stones due to the composition of the stones, they are not radio-opaque and
therefore will not show up well on x ray

- 1. The process of passing nutrients that are required by the body back from the filtrate into the peritubular capillaries is
 - a. glomerular filtration
 - b. tubular reabsorption
 - c. tubular secretion
- 2. Which of the following is characterised by progressive scar tissue formation
 - a. acute glomerulonephritis
 - b. subacute glomerulonephritis
 - c. chronic glomerulonephritis
- 3. The presence of proteins in the urine is called
 - a. haematuria
 - b. hypoalbuminemia
 - c. uraemia
 - d. proteinuria
 - e. hyperlipidemia
- 4. Nephrotic syndrome is related to **increased** decreased glomerular permeability to proteins.
- 5. The presence of red blood cells in the urine indicates damage to the **glomerular** peritubular capillaries.
- 6. There is a decreased ability to clot in nephrotic syndrome due to the loss of
 - a. clotting factors
 - b. blood pressure
 - c. plasma
- 7. Prostatic enlargement is an example of which of the following causes of acute renal failure
 - a. pre-renal causes of acute renal failure
 - b. renal causes of acute renal failure

c. post renal causes of acute renal failure
8 Creatinne creatine is excreted via the urine at a given rate in relation to muscle tissue.
9. Chronic renal failure is most associated with causing metabolic acidosis / alkalosis.
10. Define nocturia <u>urination during the night</u>
11. When GFR is between 20 - 50% of normal, the patient is described as being in
a. diminished renal reserve
b. renal insufficiency
c. renal failure
d. end stage renal disease
12. End stage renal disease features glomerular scarring and fibrosis of tubules. T F 13. Gout result from hyperuricemia hypouricemia.
14. Gout does not commonly affect which of the following locations
a. metatarsophalangeal joint of the big toe
b. the lobe of the ear
c. cheek region of the face
15. Long term structural changes of the kidney that are related to diabetes mellitus include
a. a gradual thickening and folding of the basement membrane
b. a decreased renal permeability to macromolecules
c. both of the above
d. neither of the above

16. Uremia is due to excessive blood levels of

a. urea

c. urine

b. uric acid

17. The major causes of renal calculi include all of the following except:	
a. increased serum levels of calcium or phosphate	
b. increased urine output	
c. increased uric acid	
d. increased concentration of normal urine	
18. Kidney stones will show up well on an x-ray.	T/F
19. Oliguria is described	
a. excessive urination	
b. reduced urination	
c. lack of urination	
20. Hydronephrosis is an enlargement of the kidney urinary bladder. 21. Vesico-ureteral reflux causes a primary secondary hydronephrosis	
22. An intravenous pyelogram may be used to assess filtrate formation within the kidney	y. T/F
23. Renal tumours can be located in the	
a. renal cortex of the kidney only	
b. renal medulla of the kidney only	
c. either the renal cortex or the renal medulla	
d. neither the renal cortex nor the renal medulla	
24. Renal tumours that metastasis to distant organs are classified as	
a. stage I	
b. stage II	
c. stage III	
d. stage IV	
Γ	

25	Urinary	tract infection	ons affect the	bladder o	r urethra a	re referred	to as an	upper / low	er urinary
	tract infe	ection.							

26. Upper /	lower	urinary	tract i	infections	cause	more	alteration	to urin	e flow	than	systemic	effects
of infect	tion											

system	females have a shorter urethra than males	
27. Describe wh	y females are more predisposed than males to ascending infections of	the urinary

- 28. Inflammation of the urinary bladder is called
 - a. pyelonephritis
 - b. pyonephrosis
 - c. renal TB
 - d. cystitis
 - e. urethritis
- 29. Signs and symptoms of cystitis include all of the following except
 - a. dysuria
 - b. decrease in the number of urinations per day
 - c. alterations in the urine
- 30. Males tend to ge urethritis cystitis.

Unit 9

- 1. PCOS affects the **ovary** oesophagus.
- 2. **Hyperinsulinemia** hypoinsulinemia is linked with PCOS.
- 3. In the presence of inhibin, gonadotrophic releasing hormone causes the release of **LH**/**FSH**.
- 4. The patient with polycystic ovary syndrome has
 - a. increased fertility
 - b. unchanged fertility
 - c. decreased fertility
- 5. Painful sexual intercourse is called **dysmenorrhea** / **dysparuenia**.
- 6. Primary tumours of the ovaries are usually adenocarcinomas.

T/F

- 7. Metastasis of neoplasms of the ovaries may spread to the uterus through the
 - a. pleural cavity
 - b. periosteal cavity
 - c. peritoneal cavity
 - d. pericardial cavity
- 8. Salpingitis is infection of the **uterus** uterine tubes.
- 9. **Acute** chronic salpingitis can cause infertility due to scar tissue.
- 10. The most common location of an ectopic pregnancy is the
 - a. ovary
 - b. uterine tube
 - c. uterus
 - d. vagina



11. Any pain in the lower abdomen may be indicative of an ectopic pregnancy.	T/F
12. A ruptured tubal ectopic pregnancy may be fatal due to	
a. associated peritonitis	
b. increased risk of peritoneal infection	
c. either of the above	
d. neither of the above	
13. The condition characterised by endometrial cells in non-uterine locations is called	
<u>endometriosis</u>	
14. Chocolate cysts are associated with endometriosis / salpingitis .	
15. The pain of endometriosis is worst for the few days leading up to menstruation ovu	ılation.
16. Although painful, endometriosis does not cause the complication of infertility.	TF
17. Which of the following is not a common presentation of endometriosis	
a. dysmenorrhoea	
b. dyspareunia	
c. dysphagia	
18. Fibroids consist of smooth muscle tissue and endometrial tissue.	TF
19. Fibroids located between the endometrium and myometrium are submucous / sebser	ous.
20. There will be increased / decreased uterine bleeding in a patient with fibroids.	
21. Most uterine carcinomas derive from the transformation zone of the cervix.	T/F
22. Which of the CIN classifications is also called carcinoma in situa. CIN Ib. CIN II	

c. CIN III

23. CIN III can relate to a viral infection and can spontaneously regress.

T/F

- 24. Cervical cancer is highly related to the incidence of
 - a. human immunodeficiency virus (HIV)
 - b. human papilloma virus (HPV)
 - c. human herpes virus (HHV)
- 25. Which of the following is a test for cervical cancers in which a wedge of cervical tissue is removed for assessment
 - a. Papanicolaou (Pap) test
 - b. colposcopy
 - c. cone biopsy
- 26. Vulvovaginitis is not caused by
 - a. fungi
 - b. bacteria
 - c. viruses
 - d. helminths
- 27. The normal vaginal secretions of the female reproductive tract have pH of
 - a. 1.5 3.5
 - b. 3.5 4.5
 - c. 5.5 7.5
 - d. 7.5 9.5
 - e. 9.5 14
- 28. Vaginal cancer is most common between ages 25 40.

TF

- 29. Vaginal cancer may cause
 - a. bleeding after intercourse

b. bleeding following examination
c. either of the above
d. neither of the above
30. Most vulvar cancers are squamous / basal cell carcinomas.
31. All cases of vulvar cancer are asymptomatic.
32. A Bartholins cyst may lead to an abscess due to bacterial / viral infection.
33. Acute mastitis is commonly due to a bacterial infection of cracked inverted nipples.
34. The breast milk produced during acute mastitis should be expressed throughout treatment and
discarded.
35. Breast lumps that appear or disappear at different stage of the ovarian cycle are always due to
chronic mastitis.
36. Breast cancer that causes causes bloody discharge from the nipple is most likely to be a
a. fibroadenoma
b. intraductal papilloma
c. extraductal papilloma
37. Metastases from a melanoma of the skin may cause secondary breast cancer.
38. Which of the following is not a genetic defect associated with breast cancer
a. mutations of BRCA 1 gene
b. mutations of BRCA 2 gene
c. mutations of BRCA 3 gene

- 39. Which of the following signs and symptoms of breast cancer is not associated with Coopers ligaments
 - a. dimpling of the skin overlying the lesion

b.	retraction of the nipple
c.	"peau d'orange" skin

- 40. Lymphatic spread of breast cancer commonly occurs to the **axillary / inguinal** lymph nodes.
- 41. Most breast lumps are discovered during self breast examination.

T/F

- 42. Mammography is of limited value in assessing younger older females due to increased density of the normal breast issue.
- 43. Which of the following is commonly used to determine whether the lesion is cystic (fluid filled) or solid
 - a. mammography
 - b. ultrasound
 - c. thermal imaging

Unit 10

- Injuries to the male reproductive organs usually occur from physical emotional trauma.
 Although painful, trauma to the testes will not cause infertility.
 T F
 The descent of the testes occurs through the inguinal umbilical canal.
 Females are more vulnerable to suffer inguinal herniae than males.
 Which of the following is the result of fluid in the tissue spaces around the testicle

 a. torsion of the testes
 b. hydrocoele
 c. varicoele

 A varicocoele is more common on the left right side.
- 7. In a semen analysis, the sperm count should be more than
 - a. 20 thousand sperm per ml
 - b. 20 million sperm per ml
 - c. 20 billion sperm per ml
- 8. Orchitis is the name given to inflammation of the **testicle** / **epididymis**.
- 9. The major type of neoplasm that affects the testicle is a seminoma / teratoma.
- 10. Due to modern microsurgery procedures, all vasectomies are reversible.

T/F

- 11. Benign prostatic hypertrophy (BPH) occurs due to the conversion of testosterone into
 - a. di-hydrotestosterone
 - b. tri-hydrotestosterone
 - c. tetra-hydrotestosterone

- 12. Which of the following is not a lobe of the prostate gland
 - a. lateral lobe
 - b. median lobe
 - c. posterior lobe
 - d. anterior lobe
- 13. Prostatic carcinoma occurs more frequently in males
 - a. between 20 and 30 years of age
 - b. between 30 and 40 years of age
 - c. between 40 and 50 years of age
 - d. over the age of 50 years
- 14. Which of the following indicates a prostate cancer has metastasised to a distant organ
 - a. Mx
 - b. M0
 - c. M1
- 15. Which of the following is not a sign or symptom of enlargement of the prostate
 - a. hesitancy
 - b. strong urinary stream pressure
 - c. terminal dribbling
 - d. nocturia
 - e. secondary urinary infections from urinary stasis
- 16. A DRE is a
 - a. blood test analysing the level of PSA
 - b. physical examination procedure in which the prostate is felt
 - c. urine analysis identifying bacterial infection
 - d. all of the above
 - e. none of the above

17.	Inflamn	nation	of th	e glans	s penis	is	called
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- a. phimosis
- b. posthitis
- c. balanitis
- d. balanoposthitis
- e. paraphimosis
- 18. An abnormal opening of the urethra on the ventral surface of the penis is **hypospadias/** epispadias.
- 19. Due to the length of the male urethra, males are more likely to suffer **cystitis** / **urethritis**.
- 20. Squamous cell carcinoma of the penis may be caused by infection by the human papilloma virus. T/F