

# UROGENETAL SYSTEM

**MID + FINAL EXAM**  
**WAREED BATCH**

إعداد :



- 1) If a case of emphysema was hospitalized showing drop in blood PH and increase in CO<sub>2</sub>. This is a condition of? Select one:
  - a. Metabolic alkalosis
  - b. Respiratory alkalosis
  - c. Metabolic acidosis
  - d. Respiratory acidosis**
  - e. Compensated respiratory alkalosis
  
- 2) The renal blood flow is? Select one:
  - a. 5% of the cardiac output.
  - b. Higher in the medulla than in the cortex.
  - c. Markedly affected by arterial blood pressure whatever its level.
  - d. Decrease by sympathetic stimulation.**
  - e. Auto regulated between 20 and 120 mmhg.
  
- 3) Regarding the Ureter, one of the following statements is incorrect: Select one:
  - a. ureter lies posterior to parietal peritoneum.
  - b. Crosses bifurcation of aortic artery.**
  - c. lies anterior to sacro-iliac joint.
  - d. lies on Lateral wall of pelvis towards ischial spine
  - e. Enter inferior surface of bladder at trigone.
  
- 4) The "diluting segment" of the nephron is? Select one:
  - a. PCT.
  - b. Descending limb of loop of Henle.
  - c. Ascending limb of loop of Henle.**
  - d. Cortical collecting duct.
  - e. Distal convoluted tubule.
  
- 5) Trigone of urinary bladder is developed from? Select one:
  - a. Mesonephric duct**
  - b. Cloaca
  - c. Pronephric duct
  - d. Urachus
  - e. Metanephric duct
  
- 6) A 26-year-old woman presents with infertility. She complains of having had dull pelvic pain monthly. Physical examination and endocrinologic studies are normal. Laparoscopy reveals multiple small hemorrhagic lesions over the surface of both ovaries along with foci of scarring. Which of the following is the most likely diagnosis? Select one:
  - a. Borderline serous tumor
  - b. Ectopic pregnancy**
  - c. Endometriosis
  - d. Metastatic cervical carcinoma
  - e. Pelvic inflammatory disease

- 7) A woman diagnosed with cervical intraepithelial neoplasia. If You decide to examine her long-term male sexual partner. Which one of the following is the most likely finding? Select one:
- a. Condylomata lata.
  - b. Penile intraepithelial neoplasia associated with HPV 16.**
  - c. Chancroid.
  - d. Condylomata acuminata.
  - e. Penile intraepithelial neoplasia associated with HPV 6.
- 8) Which one of the following is absolutely contraindicated in chronic renal failure? Select one:
- a. Doxycycline.
  - b. Alpha-methyldopa.
  - c. Cisplatin.**
  - d. Ampicillin.
  - e. Frusemide. .
- 9) All of the followings are types of hypospadias except? Select one:
- a. Glandular hypospadias
  - b. Hypospadias with ectopia vesica**
  - c. Scrotal hypospadias
  - d. Penile hypospadias
  - e. Complete hypospadias
- 10) A 40-year-old woman presents with a 5-year history of dysmenorrhea. A hysterectomy is performed. Histologic examination of the uterine wall reveals areas of extensive adenomyosis. Which of the following best describes this patient's uterine pathology? Select one:
- a. Benign neoplasm of glandular epithelial cells
  - b. Displacement of endometrial glands and stroma**
  - c. Endometrial intraepithelial neoplasia
  - d. Hyperplasia of trophoblast as a sequel of incomplete abortion
  - e. Premalignant uterine lesion composed of smooth muscle
- 11) The muscle of the bladder wall is called. Select one:
- a. Detrusor muscle.**
  - b. Dartos
  - c. Trigon muscle.
  - d. Rugae.
  - e. sphincter muscle

- 12) A 23-year-old female had started to notice a lump in her left breast for the past year. Clinician examined a 2.5-cm, well- circumscribed and freely mobile mass is palpated in the upper outer quadrant. Examining the mass microscopically after excision revealed a proliferation of intralobular fibroblasts, that distorts the tubular epithelial cells into elongated slitlike structures. What is the most likely diagnosis? Select one:
- a. Invasive ductal carcinoma
  - b. Phyllodes tumor
  - c. Fibroadenoma**
  - d. Fibrocystic changes
  - e. Acute mastitis
- 13) .....morbidity includes primarily traditional practices, some of which are for treatment of real or perceived gynecologic conditions (such as female genital mutilation)? Select one:
- a. direct obstetric morbidity
  - b. indirect obstetric morbidity
  - c. direct gynecological morbidity
  - d. indirect gynecological morbidity**
  - e. contraceptive morbidity
- 14) When GFR fall , the Na excretion well ? Select one:
- a. Fall
  - b. Increase
  - c. Fall followed by increase**
  - d. No change
  - e. Increase followed by sharp decrease
- 15) One of the following pairs considering urinary tract infection risk factors is incorrectly matched? Select one:
- a. Female: short urethra and proximity to the rectum
  - b. Instrumentation: help the organisms gain entrance to the bladder
  - c. Diabetes mellitus: Increased susceptibility to infection
  - d. Vesicoureteral reflux: ascending infection
  - e. Pregnancy: causes neurogenic bladder which lead to stasis**
- 16) The promontory of the sacrum is formed by: Select one:
- a. Lower border of the anterior surface of the fifth sacral vertebra
  - b. Anterior surface of the second sacral vertebra
  - c. Lateral masses of the sacrum
  - d. Anterior and upper border of the first sacral vertebra**
  - e. Lateral edge of the sacrum

- 17) A 25-year-old obese woman who has complained of irregular menstrual periods and pronounced facial hair. On gynecologic examination, both ovaries are found to be symmetrically enlarged. This patient's ovaries would likely show which of the following pathologic findings? Select one:
- Bilateral endometriomas
  - Cystic teratoma
  - Mucinous cystadenoma
  - Serous cystadenoma
  - Subcapsular cysts**
- 18) Concerning relaxin hormone, all are true, except? Select one:
- It is an ovarian hormone.
  - Poly peptide in nature.
  - Steroid in nature.**
  - Dilates uterine cervix.
  - Relax symphysis pubis ligaments.
- 19) A 30-year-old female diagnosed clinically as diabetic nephropathy. Urine analysis was positive for RBCs and albumin. This condition may result from..... ? Select one:
- Defect in the renin- angiotensin — aldosterone system
  - Damage in the juxtaglomerular apparatus
  - Disrupted glomerular basement membrane and renal barrier**
  - The intra and extra glomerular mesangial cells are affected
  - The collecting ducts are affected
- 20) Renal blood flow is ? Select one:
- |                    |                           |                  |
|--------------------|---------------------------|------------------|
| a. 0.8 - 1.2 l/min | <b>b. 1.2 — 1.3 L/Min</b> | c. 1.5 — 2 L/Min |
| d. 2-2.5 L/Min     | e. 5-6 L/Min              |                  |
- 21) Adverse effects resulting from the administration of Furosemide include all of the following Except? Select one:
- Hypercalcemia**
  - Hyperuricemia
  - Hypokaemia
  - Ototoxicity
  - Hypomagnesemia
- 22) All are true regarding Molluscum contagiosum virus infection EXCEPT? Select one:
- Diagnosis can be made clinically.
  - It is a member of poxviruses.
  - Basophilic inclusion called molluscum bodies can be detected in biopsy specimen.**
  - Cidofovir can be used in extensive lesions.
  - Lesions are large and numerous in immunocompromised patients.

- 23) The pronephric kidney is developed from? Select one:  
a. Cranial part of intermediate mesoderm  
b. Caudal part middle mesoderm  
c. Middle part intermediate mesoderm  
d. Cranial part of middle mesoderm  
e. Caudal part of intermediate mesoderm
- 24) A 43-year-old woman presents with a 6-month history of increasing abdominal girth. On physical examination, there is ascites. Pelvic examination reveals a left adnexal mass. A 6-cm ovarian tumor is removed. The tumor is solid and white. Which of the following is the appropriate diagnosis? Select one:  
a. Fibroma  
b. Granulosa cell tumor  
c. Leiomyosarcoma  
d. Papillary cystadenoma  
e. Sertoli-Leydig cell tumor
- 25) All following are Therapeutic uses of estrogens EXCEPT? Select one:  
a. Endometriosis  
b. Contraception  
c. Hormone replacement therapy (HRT)  
d. Estrogen deficiency  
e. Osteoporosis
- 26) All following about contraceptives are true EXCEPT? Select one:  
a. Contraceptives prevent ovulation  
b. Combination pills are most effective method for contraception  
c. Triphasic pills contain constant dose of estrogen and progestin  
d. Side effects: thrombophlebitis  
e. Contraindicated in patients with breast cancer
- 27) Women and girls' access to MHH is a component of gender-responsive WASH services; acknowledges the right to menstrual health and hygiene? Select one:  
a. SDG 6  
b. SDG 3  
c. SDG 4  
d. SDG 8  
e. SDG 5
- 28) Substance commonly used to measure RBF ? Select one:  
a. Inuline  
b. Creatinine  
c. Glucose  
d. Para-amino- hippuric acid  
e. Amino acids

- 29) The following are adverse effects of oxytocin infusion in induction of labour except? Select one:
- a. Fetal distress.
  - b. Increase in maternal blood pressure.
  - c. Ruptured uterus in patients with obstructed labour due to contracted pelvis.
  - d. Coronary vasospasm.**
  - e. Prolapse of umbilical cord when rupture of foetal amniotic membrane occurs.
- 30) All the following features are true regarding leiomyoma, except? Select one:
- a. It is the most common benign neoplasm in the uterus
  - b. Nuclear pleomorphism is one of the most diagnostic features for this lesion.**
  - c. Not associated with metastasis
  - d. Presented as multiple lesions
  - e. presented in many locations within the uterus
- 31) Which of the followings are incorrect regarding layers of the scrotum? Select one:
- a. External spermatic fascia
  - b. Cremasteric muscle
  - c. Superficial fatty layer**
  - d. Internal spermatic fascia
  - e. Involuntary dartos muscle
- 32) A 50-year-old man is found to have blood in his urine during a routine checkup. An enlarged right kidney is found on X-ray examination. A tru cut biopsy of the renal mass shows glycogen-rich tumor cells. Molecular studies would most likely identify mutations in which of the following growth regulatory genes? Select one:
- a. ADPKD
  - b. IGF-2
  - c. PAX6
  - d. VHL**
  - e. WT1
- 33) All the following statements are true EXCEPT: Select one:
- a. The false pelvis forms part of the abdominal cavity
  - b. The pelvic outlet is diamond shaped
  - c. The bony pelvis is composed by the two hip bones and the sacrum only**
  - d. The pelvic cavity lies between the inlet and the outlet
  - e. The pelvic inlet synonym the pelvic brim
- 34) All of the following is correct about the clinical presentation of breast diseases EXCEPT? Select one:
- a. All palpable breast masses require evaluation.
  - b. Infections are common during lactation and breastfeeding.
  - c. Gynecomastia is the only common symptom in males.
  - d. One centimeter (10mm) mass is usually Palpable and Mammographically detected.**
  - e. Most painful breast masses are benign.

- 35) Which of following about female sex hormones is FALSE? Select one:
- a. Tamoxifen is used in metastatic breast cancer in postmenopausal women
  - b. Raloxifene is used in treatment of osteoporosis in postmenopausal women
  - c. Clomiphene is used in treatment of anovulatory infertility
  - d. Medroxyprogesterone has androgenic activities**
  - e. Progestins are used in treatment of endometriosis
- 36) A 9-year-old presented to the clinic with sensorineural deafness, posterior cataracts, and corneal dystrophy. A urinalysis revealed microscopic hematuria and no proteinuria. Many family members are presented with various renal diseases, especially males. Microscopic examination of a renal biopsy showed glomerular capillaries with irregular basement membrane thickening, splitting and lamination. Which of the following is the most likely diagnosis? Select one:
- a. Berger Disease
  - b. Alport syndrome**
  - c. Minimal change disease
  - d. Autosomal dominant polycystic kidney disease
  - e. Goodpasture syndrome
- 37) The first preventive measure to keep bacteria out of the urinary tract? Select one:
- a. Urinate when you feel the need and do not resist the urge
  - b. Drink plenty of fluids throughout the day**
  - c. Empty your bladder completely
  - d. Take showers instead of baths
  - e. Wash genitals daily
- 38) A middle aged woman presented with fishy odour vaginal discharge shows clue cells in a wet preparation: She probably has? Select one:
- a. Bacterial vaginosis**
  - b. Chlamydia trachomatis
  - c. Neisseria gonorrhoeae
  - d. Trichomonas
  - e. Cervicitis
- 39) All are correct about Candida albicans, EXCEPT: Select one:
- a. One of the opportunistic fungi.
  - b. Oval gram -ve dimorphic fungi.**
  - c. Causing vulvovaginitis in female, balanitis in male, renal & bladder infection.
  - d. Cultured on SDA medium.
  - e. Germ tube test is used in the diagnosis.

- 40) A 25 year old male presented to you with purulent penile discharge, dysuria and lower abdominal pain. The gram stain of the discharge showed Gram negative diplococci oxidase positive bacteria, likely cause is? Select one:
- a. **Neisseria gonorrhoea**
  - b. Streptococcus pneumoniae
  - c. E. coli
  - d. S. aureus
  - e. Trichomonas vaginalis
- 41) If a patient undergoing a prolonged surgery and have repeated blood transfusion during and after surgery, which condition will he have if you know that the transfused blood contain citrate? Select one:
- a. Compensated respiratory alkalosis
  - b. **Metabolic alkalosis**
  - c. Respiratory alkalosis
  - d. Respiratory acidosis
  - e. Metabolic acidosis
- 42) Drug of choice for bacterial vaginosis is? Select one:
- a. **Metronidazole**
  - b. Erythromycin
  - c. Tetracycline
  - d. Nystatin
  - e. Profen
- 43) Concerning STDs, BENZATHINE PENICILLIN G is the treatment of the following disease? Select one:
- a. **Syphilis.**
  - b. Trichomoniasis.
  - c. Hepatitis B.
  - d. Pubic lice.
  - e. Gonorrhoea.
- 44) All of the following statements are True related to the urethra of a male except: Select one:
- a. The prostatic urethra It is about 1.25 inches long.
  - b. The membranous urethra is about 1.25 cm long.
  - c. **The external meatus is the widest part of the entire urethra.**
  - d. The part of the urethra that lies within the glans penis is dilated to form the fossa terminalis.
  - e. It is approximately 20 cm long in an adult.
- 45) Which one is the CORRECT match? Select one:
- a. **Ovarian cortical stroma ///// source of theca folliculi cells**
  - b. Granulosa lutein cells ///// secrete placental hormones
  - c. Oviduct epithelium ///// simple columnar mucus secreting
  - d. Endocervix ///// non- keratinized stratified squamous epithelium
  - e. Antrum ///// primary ovarian follicles

- 46) Glucose reabsorption is? Select one:
- Passive in the proximal convoluted tubules.
  - By secondary active transport in the proximal convoluted tubules.
  - Co transported with sodium at the basal border of proximal convoluted tubules.
  - Has no tubular maximum.
  - Passive in the distal convoluted tubules.
- 47) Removal of drugs from blood by dialysis is enhanced by the following except? Select one:
- Large surface area or dialysis membrane.
  - Drug MW is 800 daltons.
  - increased flow rate of dialysis fluid into dialysis machine.
  - Increased porosity of dialysis membrane.
  - Drug poorly bound to plasma proteins.
- 48) Choose the CORRECT match from the followings? Select one:
- Macula densa ///// columnar cells lacking basement membrane found in wall of proximal convoluted tubules
  - Mesangial cells ///// line parietal layer of Bowman's capsule
  - Juxtaglomerular cells ///// modified smooth muscles in the wall of afferent arteriole
  - Podocytes ///// separate from the basement membrane by capsular space
  - Intercalated cells ///// cuboidal cells line the wall of the distal convoluted tubules
- 49) The following are the characteristic of substances suitable for measuring GFR, except? Select one:
- Freely filtered
  - Stored in kidney
  - Not protein bound
  - Neither reabsorbed nor secreted
  - Metabolized by kidney
- 50) A 55-year-old male known to have atherosclerosis and ischemic heart disease suffered multiple injuries as result of a road traffic accident. In addition to his fractures he suffered an internal bleeding and there is difficulty maintaining adequate blood pressure and tissue perfusion for 48 hours. Serum urea nitrogen increases to 44 mg/dL (normal 7-20 mg/dL) and creatinine to 2.2 mg/dL (normal 0.9-1.3). Granular and hyaline casts are present on microscopic urinalysis. Which of the following renal lesions is most likely to be present in this situation? Select one:
- Minimal change disease
  - Hyaline arteriolosclerosis
  - Chronic kidney disease
  - Acute tubular necrosis
  - Chronic pyelonephritis

- 51) Each of the following statements concerning HIV is correct EXCEPT? Select one:
- a. P17 is one of the HIV core proteins.
  - b. HIV envelope polyprotein is cleaved by cellular proteases.
  - c. The Western blot test is more specific for HIV infection than the ELISA is.
  - d. In HIV replication, gp41 binds to CD4 and CXCR4 receptors.**
  - e. Down-regulation of class I MHC proteins in HIV infection done by Tat and Nef proteins.
- 52) A 59-year-old woman presents with a 2-year history of vulvar itching and burning. Physical examination reveals a red, moist lesion of the labium major. Biopsy reveals clusters of pale vacuolated cells within the epidermis that stain positively for periodic acid-Schiff (PAS). Which of the following is the most likely diagnosis? Select one:
- a. Extramammary Paget disease**
  - b. HPV-induced papilloma
  - c. Verrucous carcinoma
  - d. Vulvar intraepithelial neoplasia
  - e. Vulvar melanoma
- 53) All of the following is true about the glomerular capillaries, EXCEPT? Select one:
- a. Low pressure capillary bed.**
  - b. Drain into efferent arteriole.
  - c. Highly permeable with wide fenestrae.
  - d. Provide wide surface area for filtration.
  - e. Engulfed with Bowman capsule.
- 54) The main site which is responsible for excretion of urea and creatinine is? Select one:
- a. Loop of Henle
  - b. Glomeruli**
  - c. Proximal convoluted tubule
  - d. Collecting duct
  - e. Distal convoluted tubule
- 55) A 39-year-old man has been progressively fatigued for 4 weeks. On physical examination he has a blood pressure of 120/85 mm Hg and pitting edema of the lower extremities. Urinalysis shows proteinuria, no hematuria. He also had a 24-hour urine protein of 4.1 gm. His serum urea nitrogen is elevated. His hepatitis B surface antigen is positive. Electron microscopy of a kidney biopsy reveals subepithelial deposits with glomerular basement membrane reaction to them. Which of the following is the most likely diagnosis? Select one:
- a. Crescentic glomerulonephritis
  - b. Acute postinfectious glomerulonephritis
  - c. Minimal change disease
  - d. Acute tubular necrosis
  - e. Membranous nephropathy**
- 56) Estrogen produces the following effects on breast, except? Select one:
- a. Growth of nipples.
  - b. Growth of acini.**
  - c. Growth of ducts.
  - d. Increase vascularity.
  - e. Darkens areola.

- 57) Which of the followings is mismatched regarding schistosomiasis? Select one:
- Toxic symptoms: metabolic products of maturing parasites.
  - Dyspnea: Stage of migration.
  - Egg spin: penetration.
  - d. pain in the supra pelvic region: late stage.**
  - Sandy patches: calcified ova.
- 58) Choose the INCORRECT match among the followings? Select one:
- Sertoli cells ///// secrete testicular fluid
  - b. Spermatids ///// undergo second meiotic division**
  - Epididymis ///// storage and maturation of sperms
  - Leydig cells ///// secrete testosterone
  - COWper's glands ///// mucus secreting glands
- 59) A 34 -year-old man has had heaviness in testis for 6 months. Examination reveals enlargement left testis. Laboratory revealed normal serum HCG and alpha-fetoprotein (AFP). Left testis is excised through orchiectomy and on sectioning showed soft, well-demarcated white mass, no hemorrhage or necrosis. He receives radiation therapy with good response. Which of the following neoplasms he is most likely to have? Select one:
- a. Seminoma.**
  - Yolk sac tumor.
  - Leydig cell tumor.
  - Embryonal carcinoma.
  - Choriocarcinoma.
- 60) A 52-year-old female died from hemorrhagic cerebral stroke. She has been progressively ill in the last six months with multiple emergency visits where she found to have high blood pressure reaching 250/154 mmHg. Blood tests showed high serum urea nitrogen and creatinine. At autopsy the kidneys are bilaterally small with pinpoint petechial hemorrhages on the surface. Which of the following findings you would most likely see upon examining her kidneys under with the light microscope? Select one:
- Leukocytoclastic vasculitis
  - b. Hyperplastic arteriolosclerosis**
  - Eosinophilic tubulointerstitial nephritis
  - Diffuse uniform thickening of the capillary wall
  - Collapsed glomerular tufts and crescents formation
- 61) Regarding clinical effects of androgens, all the following are true EXCEPT? Select one:
- Promotion of weight gain in wasting syndromes.
  - Anabolic effects, they increase muscle strength and bulk.
  - In certain types of anemia, as they stimulate red blood cells.
  - d. Contraception.**
  - Replacement therapy in hypogonadism.

- 62) UTI risk factor as a part of familial tendency to develop the disease is Select one:
- a. Vesicourethral reflux
  - b. Female sex
  - c. Pregnancy
  - d. Less IgA secretion from uroepithelial cells**
  - e. Indwelling catheters
- 63) The majority of malignant tumors of the urinary bladder are histologically classified as? Select one:
- a. Fibrosarcoma
  - b. Adenocarcinoma
  - c. Squamous cell carcinoma
  - d. Choriocarcinoma
  - e. Transitional cell carcinoma**
- 64) Secondary causes of nephrotic syndrome include all of the following except? Select one:
- a. Diabetes mellitus
  - b. Systemic lupus erythematosus
  - c. Minimal change disease**
  - d. Amyloidosis
  - e. Cryoglobulinemia
- 65) The Male superficial perineal pouch contains which of the following structures? Select one:
- a. Prostate
  - b. Bulbourethral glands
  - c. Membranous urethra
  - d. Ischiocavernosus muscle**
  - e. Deep transverse perineal muscles
- 66) Which of the following ovarian lesions needs follow up for long period due to higher recurrence rate (even years) after the initial treatment? Select one:
- a. Dysgerminoma
  - b. Serous cystadenoma**
  - c. Granulosa cell tumor
  - d. Mucinous cystadenoma
  - e. Sertoli-Leydig cell tumor
- 67) The atoms of purine ring are derived from different precursors in the pathway of de novo synthesis. Which of the following is not of these precursors? Select one:
- a. CO<sub>2</sub>
  - b. Glutamine
  - c. Aspartate
  - d. Arginine**
  - e. Glycine

- 68) All the following is false regarding ovarian tumors except? Select one:
- a. The most common type is sex cord—stromal tumors.
  - b. Most of the sex cord—stromal tumors are associated with endocrinopathic manifestations.**
  - c. Most of the ovarian cancer associated with good prognosis
  - d. Mucinous tumors have many epithelial linings.
  - e. Most of these lesions affecting the older women
- 69) Progesterone produces the following functions, except? Select one:
- a. It helps implantation of fertilized ovum.
  - b. Helps formation of early placenta.
  - c. Inhibits uterine contraction during pregnancy.
  - d. Responsible for growth of nipples.**
  - e. Thermogenic.
- 70) While examining a breast core needle biopsy from suspicious calcifications identified on screening mammography, a proliferation of luminal epithelial cells is found expanding and distorting the lobules into duct-like spaces with central necrosis and associated calcifications. Lesion is maintained within the basement membrane. One of the following is incorrect about this lesion? Select one:
- a. Harbor mutation in adhesion protein E-cadherin.**
  - b. Treated with excision and radiotherapy
  - c. Treated with excision and Tamoxifen
  - d. Excellent prognosis when completely excised
  - e. No lymphovascular invasion
- 71) To define nephrotic syndrome, the daily urinary protein loss should exceed? Select one:
- a. 2g
  - b. 3g**
  - c. 4g
  - d. 5g
  - e. 6g
- 72) Large dose of progesterone? Select one:
- a. Inhibits uterine contraction.
  - b. Inhibits ovarian cycle.
  - c. Inhibits both uterine contraction and ovarian cycle.**
  - d. Does not inhibit both uterine contraction and ovarian cycle.
  - e. Decrease body temperature.
- 73) All the following statements are true concerning the vagina EXCEPT? Select one:
- a. The cervix of the uterus pierces its posterior wall**
  - b. The lower half lies between the urethra anteriorly and the anal canal posteriorly
  - c. It is directed upward and backward
  - d. Its upper part is related to ureter
  - e. Its posterior wall is longer than anterior wall

- 74) As regard gluconeogenesis in the kidney, all the following are true except? Select one:
- Renal gluconeogenesis increased by acidosis
  - Important in the removal of excessive quantities of glucose precursors from the blood
  - The renal medulla is a major site for renal gluconeogenesis
  - Considered a nonexcretory mechanism in the kidney for pH regulation.
  - Important when the dietary supply of glucose does not satisfy the metabolic demands
- 75) Factor affecting G F R are? Select one:
- Changes in renal blood flow
  - Changes in glomerular capillary hydrostatic pressure
  - Ureteric obstruction
  - Combined effects of Changes in renal blood flow, Changes in glomerular capillary hydrostatic pressure and Ureteric obstruction.
  - Changes in respiratory rate.
- 76) In the US, chlamydia occurs more often than any other sexually transmitted infection (STI). Who can be infected with chlamydia? Select one:
- Only women past menopause
  - Only men who have sex with men
  - Any sexually active person
  - Only pregnant women
  - Only sexual active woman
- 77) More than 100 cfu/ml is consistent with bacteriuria in which the following sample collection procedure? Select one:
- Male urine voided sample
  - Female voided sample
  - In and out catheter urine sample
  - Indwelling urethral catheter urine sample
  - Baby urine voided sample
- 78) Progesterone hormone? Select one:
- Stimulates LH secretion.
  - Has thermogenic effect.
  - Stimulates uterine contraction during pregnancy.
  - Makes the cervical mucus thin and alkaline.
  - Decrease blood glucose level

- 79) A 60-year-old man presents with a feeling of fullness in his abdomen and a 5-kg weight loss over the past 6 months. Abdominal CT scan shows 3 masses in both kidneys. Microscopic examination of the excised specimen revealed masses with various degrees of papilla formation with fibrovascular cores. Which of the following molecular abnormalities is most likely to be found in tumor cell DNA? Select one:
- a. Homozygous loss of the von Hippel—Lindau (VHL) gene
  - b. Mutational activation of the MET proto-oncogene**
  - c. Trisomy of chromosome 7 associated genes
  - d. Integration of human papillomavirus-16 (HPV-16)
  - e. Microsatellite instability
- 80) Which of the followings statements regarding the female reproduction is CORRECT? Select one:
- a. The maternal part of the placenta is called decidua capsularis
  - b. The mucosa of the vagina contains mucous secreting glands
  - c. The spiral arteries supply the basal layer of the endometrium
  - d. The first meiotic division is completed just before ovulation**
  - e. Primordial follicles contain primary oocytes with haploid number of chromosomes
- 81) Ovulation is associated with sudden rise in? Select one:
- a. prolactin
  - b. estrogen
  - c. LH**
  - d. Oxytocin
  - e. Growth hormone
- 82) ADH produces? Select one:
- a. Increase H<sub>2</sub>O reabsorption**
  - b. Decrease sodium reabsorption
  - c. Decrease Angiotensin II formation
  - d. Increase sodium reabsorption
  - e. Increase H<sup>+</sup> secretion
- 83) All are correct regarding Trichomonas vaginalis infection EXCEPT? Select one:
- a. Cyst is the infective and diagnostic stage.**
  - b. In female, causing vaginitis and urethritis in female.
  - c. In male, causing urethritis and prostatitis.
  - d. Decreasing in lactobacilli predisposes to Trichomonas vaginalis infection.
  - e. Vaginal swab and culture are helpful in the diagnosis.
- 84) Production of a concentrated urine needs? Select one:
- a. Loop of Henle alone.
  - b. Vasa recta alone.
  - c. Both loop of Henle & Vasa recta.
  - d. loop of Henle, Vasa recta & C.D.**
  - e. Bowman capsule

- 85) A 59-year-old woman presents with a 2-year history of vulvar itching and burning. Physical examination reveals a red, moist lesion of the labium major. Biopsy reveals clusters of pale plump vacuolated cells within the epidermis that stain negatively for periodic acid-Schiff (PAS). Which of the following is the most likely diagnosis? Select one:
- a. Extramammary Paget disease
  - b. HPV-induced papilloma
  - c. Verrucous carcinoma
  - d. Vulvar intraepithelial neoplasia
  - e. Vulvar melanoma**
- 86) Urinary tract infections (UTIs) are considered to be? Select one:
- a. the most common bacterial infection for hospitalizations
  - b. the most common bacterial infection for office visits
  - c. the most common bacterial infection for emergency department visits
  - d. the most common bacterial infection for emergency department visits, and hospitalizations
  - e. the most common bacterial infection for office visits, emergency department, and hospitalizations**
- 87) The following are useful as tocolytic agents to stop premature labour except? Select one:
- a. Nifedipine. b. Ritodrine. c. Atosiban **d. Magnesium sulphate** e. Betamethasone.
- 88) A 58-year-old woman complains of recent swelling in her vagina. There is a past medical history of prenatal exposure to diethylstilbestrol. Physical examination reveals a 3-cm firm mass in the anterior wall of the upper vagina. Biopsy of the vaginal mass will most likely show which of the following pathologic findings? Select one:
- a. Clear cell adenocarcinoma**
  - b. Endodermal sinus tumor
  - C. Granular cell tumor
  - d. Mucinous adenocarcinoma
  - e. Squamous cell carcinoma
- 89) All of the followings are covering the spermatic cord except? Select one:
- a. Cremasteric muscle
  - b. Internal spermatic fascia
  - c. External spermatic fascia
  - d. Dartos muscle**
  - e. Cremasteric fascia
- 90) .....triggers milk release in lactating females? Select one:
- a. glucagon **b. oxytocin** c. luteinizing hormone d. follicle-stimulating hormone e. Prolactin
- 91) The volume of urine is increased in all the following conditions except? Select one:
- a. Diabetes mellitus                      b. Increased renal artery pressure
  - c. Diabetes insipidus                      **d. Sympathetic stimulation**                      e. Mannitol infusion

- 92) 12-year-old male presented with fever and chills along with right flank pain for two days. This is the third time in less than a year in which he presents with these symptoms. On examination, his temperature is 38.5 C, and there is right costovertebral angle tenderness. Urinalysis shows no protein, blood, glucose, or ketones. But many WBCs and WBCs casts microscopically. Which of the following conditions should be investigated in view of these recurrent episodes in this child?
- a. Vesicoureteral reflux
  - b. Malignant hypertension
  - C. Kidney tumor
  - d. Alport syndrome
  - e. IgA nephropathy
- 93) Choose the INCORRECT statement from the followings? Select one:
- a. The juxta-medullary nephrons have long loop of Henle
  - b. Lacis cells are key component in the blood renal barrier
  - c. The afferent arterioles have larger diameter and thicker media
  - d. The glomerular capillaries lined with fenestrated endothelium
  - e. The distal convoluted tubules lining epithelium has no brush border
- 94) Given your knowledge of the blood supply of the bladder, which one of the following vessels is the main arterial supply in the Bladder? Select one:
- a. Internal iliac artery.
  - b. External iliac artery.
  - c. Superior mesenteric artery.
  - d. Inferior mesenteric artery.
  - e. Coeliac trunk.
- 95) A mother brought her 18 month old child to the pediatric clinic worried about a recent asymmetric enlargement of his scrotum. Physical examination revealed a well circumscribed, 2cm mass in the left testis. Laboratory revealed normal serum HCG and high serum alpha-fetoprotein (AFP). Histologic examination of this mass after orchiectomy shows low cuboidal to columnar epithelial cells that form microcysts, some of which contain eosinophilic hyaline globules structures resemble primitive glomeruli. What is the most likely diagnosis?
- a. Seminoma.
  - b. Yolk sac tumor.
  - C. Leydig cell tumor.
  - d. Embryonal carcinoma.
  - e. Choriocarcinoma.
- 96) Which one is true regarding the Vulva? Select one:
- a. The anterior ends of labia minora form the clitoris
  - b. Orifices of the greater vestibular glands opens on each sides of urethra
  - c. The vestibule is bounded laterally by the labia majora
  - d. The clitoris is an erectile tissue of bulbus spongiosus
  - e. The labia majora is covered by skin

- 97) One of the following is incorrect about the penis inflammatory lesions? Select one:
- Balanitis is local inflammation of the glans penis.
  - Phimosis is mostly a congenital anomaly.**
  - Phimosis is when prepuce cannot be retracted easily over the glans penis.
  - Desquamated epithelial cells and debris accumulated in the foreskin is called smegma.
  - Balanitis is mostly a consequence of poor hygiene in uncircumcised males.
- 98) Concerning STDs, genital herpes can be treated by the following drug? Select one:
- Azithromycin.
  - Acyclovir.**
  - Metronidazole.
  - Benzathine penciling.
  - Salicylic acid.
- 99) Which one of the following is an example of indirect nephrotoxicity? Select one:
- Sulfonamides.**
  - Penicillamine.
  - Gentamicin
  - Tetracycline.
  - NSAIDs.
- 100) A 42-year-old man has had several episodes of hematuria over the past week. On physical examination, there are no remarkable findings. Urinalysis shows 4+ hematuria. The urine culture is negative. A cystoscopy is performed, and a 2-cm sessile, friable mass is seen on the right bladder wall with papillary configuration. Which of the following risk factors is most important in the pathogenesis of this bladder lesion? Select one:
- Smoking cigarettes**
  - Schistosomiasis
  - Diabetes mellitus
  - Chronic bacterial cystitis
  - Nodular prostatic hyperplasia
- 101) Regarding FINASTERIDE, all the following sentences are true EXCEPT? Select one:
- It inhibits 5—alpha reductase enzyme.
  - It is used in treatment of benign prostate hyperplasia.
  - It does not interfere with testosterone.
  - It is more likely than other antiandrogens to cause impotence and infertility.**
  - It prevents hair loss in males, at lower dose. .
- 102) With respect to renal handling of glucose? Select one:
- Normally, All glucose present in glomerular filtrate is partially reabsorbed during its passage in P.C.T.
  - Glucose Reabsorption in PCT is a primary active transport mechanism not dependent on sodium transport.
  - Glucose and other sugars like galactose, mannose and fructose show competition on the same carrier.
  - Higher the plasma glucose level, the more its amount reabsorbed.**
  - The kidney not the liver is the main site of glucose homeostasis.
- 103) The only route through which the H<sup>+</sup> can be eliminated from the body is? Select one:
- Detoxication
  - Perspiration
  - Expiration
  - Excretion through the kidney**
  - Combining to other compounds

- 104) Which of the followings does not characterize the acrosomal phase in Spermiogenesis? Select one:
- a. Nuclear elongation and condensation
  - b. Formation of the flagellum
  - c. Mitochondria are arranged to form the middle piece
  - d. Formation and packing of the hydrolytic enzymes in the acrosomal vesicle**
  - e. The acrosome spreads over the anterior 1/2 of the nucleus
- 105) A 25-year-old woman delivered a normal term infant three weeks ago, and she is breastfeeding. She noticed the area around the nipple is becoming progressively engorged, erythematous and tender. One of the following is incorrect about this lesion? Select one:
- a. It is almost exclusively a lactation associated lesion.
  - b. Inflammatory carcinoma should be considered in this case**
  - c. Organism typically gains entry via nipple fissures resulting from breastfeeding
  - d. Mother is always advised to carry on breastfeeding
  - e. It can be complicated by lactational abscess.
- 106) All are true about Neisseria gonorrhoea except? Select one:
- a. Gram positive diplococci oxidase negative**
  - b. Can cause urethritis
  - c. May involve seminal vesicles and spreads to epididymis (I. Can cause disseminated infection
  - e. Has multiple virulence factors such as pili
- 107) Which one of the following is NOT TRUE about Herpes Simplex Virus Type 2? Select one:
- a. Enveloped virus with icosahedral nucleocapsid.
  - b. HSV-2 is transmitted by sexual contact.
  - c. After initial infection, the virus becomes latent in the motor ganglion cells.**
  - d. Asymptomatic shedding in the female genital tract leads to neonatal infection.
  - e. There is no vaccine for prevention of HSV-2 infection.
- 108) High risk HPV types implicated in cervical intraepithelial lesions are? Select one:
- a. 6 and 11
  - b. 5 and 8
  - c. 16 and 18**
  - d. 19 and 22
  - e. 6 AND 16
- 109) A 85-year-old man has had progressive difficulty with urination, in the form of hesitancy and urgency, for the past 6 years. Digital rectal Examination shows diffusely enlarged prostate. Microscopic examination of prostatic tissue biopsy revealed glandular and stromal hyperplasia. Which of the following is the most appropriate management? Select one:
- a. Chemotherapy.
  - b. Radiotherapy.
  - c. No therapy needed
  - d. Anti-androgen therapy**
  - e. Only antibiotics for infection

- 110) It is always advised not to leave the urine sample more than one hour after sampling. This is because? Select one:
- a. Leukocytes will aggregate on long standing
  - b. Ketones will appear
  - c. The bilirubin will increase
  - d. The RBCs will agglutinate
  - e. Bacterial infection will convert the PH to alkaline
- 111) Which of the following tests is most useful to know the chance of HIV-positive patient to progress fast to symptomatic AIDS? Select one:
- a. CD4 lymphocyte count.
  - b. HIV antibody test.
  - c. HIV set point viral load.
  - d. OraQuick test.
  - e. HIV p24 antigen.
- 112) A pregnant woman with a significant number of bacteria in the urine sample but without signs or symptoms of infection; the best management of the case is? Select one:
- a. To treat her with antibiotic
  - b. just leave her without treatment
  - c. This is not an UTI
  - d. To do other tests like CT, X-ray and US
  - e. Wait until clinical signs appear and then start the treatment
- 113) Each of the following statements about human immunodeficiency virus (HIV) is correct EXCEPT? Select one:
- a. HIV is an enveloped RNA virus.
  - b. The virion contains an RNA-dependent DNA polymerase.
  - c. A DNA copy of the HIV genome integrates into host cell DNA.
  - d. Acyclovir is used to inhibit HIV replication.
  - e. Nucleic acids specific to HIV can be detected before seroconversion and appearance of antibodies to the virus in the patient serum.
- 114) Due to the asymmetry of the body, the two kidneys have different anatomical relations. Which of the following structures does only one of the kidneys articulate with on its respective side? Select one:
- a. Diaphragm.
  - b. Rib 11.
  - c. Psoas major.
  - d. Quadratus lumborum.
  - e. Transversus abdominis

- 115) A 7-year-old girl presented with her mother who has noticed she has been less active in the last week and there is an increased puffiness around her eyes in the last three days. On examination she has periorbital edema. No fever. A urinalysis proteinuria and no blood, and no ketones. No WBC or RBC. Her condition significantly improves after a course of corticosteroid. Which of the following finding you will most likely see upon examining her kidneys? Select one:
- a. Accentuated lobular appearance of the glomeruli
  - b. Collapsing glomerulopathy
  - c. Diffuse effacement of the foot processes of the podocytes
  - d. Diffuse thickening of the capillary wall
  - e. Crescents formations in glomeruli
- 116) .....is preventable through vaccination? Select one:
- a. syphilis
  - b. gonorrhoea
  - c. Herpes simplex
  - d. chlamydia
  - e. HPV
- 117) If 25 years old female has depression and severe loss of appetite, she reached the stage of starvation for 8 days. Which substance of the following most likely to be found in her urine during this stage? Select one:
- a. Bile pigment
  - b. Uroporphyrin
  - c. Protein
  - d. Ketone bodies
  - e. Glucose
- 118) All the following statements regarding the pelvic walls are true EXCEPT: Select one:
- a. The anterior pelvic wall is the shallowest
  - b. The posterior pelvic wall formed by the sacrum, coccyx, piriformis muscles and parietal pelvic fascia
  - c. The pelvic diaphragm is formed by the levatores ani muscle only
  - d. The sacrotuberous and sacrospinous ligaments are parts of lateral wall
  - e. The pelvic diaphragm allow passage of the urethrae and vagina
- 119) All following are classes of contraceptives EXCEPT? Select one:
- a. Estroge- only pills
  - b. Transdermal patch
  - c. Vaginal ring
  - d. Progestin-only pills
  - e. Progestin intrauterine device
- 120) Regarding urea permeability along different renal tubules, all are true except? Select one:
- a. The permeability to urea is high in P.C.T.
  - b. The descending part of loop of Henle is of low permeability to urea.
  - c. The DOT and early part of collecting duct: are impermeable to urea
  - d. the medullary part of collecting ducts permeable to urea
  - e. It is the same in all segments.

- 121) In sever acidosis, the kidneys? Select one:
- a. Excrete bicarbonate.
  - b. Forms ammonia.**
  - c. Prevent excretion of keto-acids.
  - d. Reabsorb H+.
  - e. Inhibits excretion of titratable acids
- 122) Metabolic acidosis is caused by all of the following, Except? Select one:
- a. Breath holding.**
  - b. Diabetic keto-acidosis.
  - C. Heavy exercise.
  - d. Cardiac arrest.
  - e. Renal failure
- 123) Along the PCT? Select one:
- a. Glucose is secreted.
  - b. 60-70% Of glucose filtered is reabsorbed.
  - c. Complete re-absorption of all glucose filtered.**
  - d. Passive re-absorption of filtered amino-acids.
  - e. Filtrate is hyperosmotic
- 124) infected wound after Norplant insertion is? Select one:
- a. direct obstetric morbidity
  - b. indirect obstetric morbidity
  - c. direct gynecological morbidity
  - d. indirect gynecological morbidity
  - e. contraceptive morbidity**
- 125) Which of the followings is correct regarding candidiasis? Select one:
- a. Renal candidiasis spreads either by ascending route or hematogenous spread.**
  - b. Candiduria may persist after treatment due to fungal resistances.
  - c. Bladder candidiasis often confused with a bacterial infection.
  - d. Renal candidiasis may cause a fungus ball or an obstructive fungal mass with symptoms as renal colic.
  - e. Microscopic examination of candida using 20% potassium hydroxide (KOH) preparation.
- 126) General treatment measures in patients with nephrotic syndrome include all of the following except? Select one:
- a. Anticoagulation
  - b. Statins for hyperlipidemia
  - C. Normal protein diet
  - d. Vaccines are not indicated**
  - e. Diuretics

- 127) In the horseshoe kidney the isthmus is tethered by the: Select one:
- a. Superior mesenteric artery
  - b. Inferior mesenteric artery**
  - c. Renal artery
  - d. Common iliac artery
  - e. Internal iliac artery
- 128) Failure of obliteration of the urachus leading to? Select one:
- a. Urachal cyst
  - b. Urachal diverticulum
  - c. Urachal fistula**
  - d. Median umbilical ligament
  - e. Urachal sinus
- 129) One of the following is incorrect about end-stage kidney disease? Select one:
- a. It is mainly caused by the maladaptive mechanisms by the intact nephrons
  - b. Maladaptive changes include nephron autophagy in order to decrease size and demands
  - c. Maladaptive changes include increases in single-nephron GFR and blood flow
  - d. Major histologic change of progressive renal damage is Tubulointerstitial fibrosis**
  - e. Major histologic change of progressive renal damage is Focal segmental glomerulosclerosis
- 130) If a boy aged 6 years old came to your Clinique suffering from severe mental and physical problems with self-mutilation and increased level of serum uric acid. These symptoms highly indicate to diagnosis of a known metabolic syndrome, the most probably defective enzyme is? Select one:
- a. Formyl transferase
  - b. Xanthine oxidase
  - c. HGPRT**
  - d. Amido transferase
  - e. Orotate phosphoribosyl transferase
- 131) All the following statements are true regarding the ovary EXCEPT? Select one:
- a. It is attached to the broad ligament by the mesovarium
  - b. The suspensory ligament of the ovary pass through the inguinal canal**
  - c. It is primary female genital organs
  - d. Its blood supply arises from the abdominal aorta
  - e. The ovarian vein drains into the inferior vena cava on the right side
- 132) One of the following is correct about the clinical classification of breast carcinoma? Select one:
- a. The majority of tumors belong to of the triple negative category
  - b. The expression of HER2 (HER2 gene amplification) has no role in therapy
  - c. Triple negative tumors respond significantly on Tamoxifen
  - d. Cancers overexpress HER2 are distinct and highly proliferative**
  - e. Almost all lobular carcinomas overexpress HER2

- 133) What are the main cause of the epispadias? Select one:
- a. Failure in fusion of the genital groove
  - b. Genital tubercle is caudal to the urogenital membrane
  - c. Failure of the formation of the genital tubercle
  - d. Failure in fusion of the urethral groove**
  - e. Genital tubercle is cranial to the urogenital membrane
- 134) All the following features are false regarding leiomyosarcoma, except? Select one:
- a. It is the most common malignant neoplasm in the uterus
  - b. Nuclear pleomorphism is one of the most diagnostic features for this lesion**
  - c. Not associated with metastasis
  - d. Presented as multiple lesions
  - e. Mitotic figures/ 10HPF is one of the most diagnostic features for this lesion
- 135) .All the following are Surface Epithelial Tumors arising in the ovary, except? Select one:
- a. Serous cystadenoma
  - b. Serous cystadenocarcinoma
  - c. Borderline mucinous tumour
  - d. Endometrioid tumours
  - e. Dysgerminoma**
- 136) Regarding the female urethra, the following statements are INCORRECT, EXCEPT: Select one:
- a. Is about 1.5 cm long.
  - b. It extends from the neck of the bladder to the external meatus.**
  - c. It opens into the vestibule about 1cm below the clitoris.
  - d. It lies immediately dorsal to the vagina.
  - e. The ducts of the paraurethral glands at the sides of the neck of bladder.
- 137) Regarding Stress urinary incontinence, which of the following is true? Select one:
- a. Stress incontinence is related to the stress of not being able to get to a toilet in time.
  - b. In stress incontinence bladder outlet resistance is increased.
  - c. Stress incontinence occurs when intra-vesical pressure exceeds the sphincteric pressure.
  - d. Men cannot develop stress incontinence.
  - e. Childbirth, chronic cough and chronic constipation add to the age-related atrophy of female's pelvic floor muscles.**
- 138) 26-year-old previously healthy man developed a cough with bloody sputum along with decreased output of dark urine over the past 3 days. On physical examination his blood pressure is 160/90 mmHg. Laboratory studies show serum creatinine 3.6 mg/dL (normal C.9-1.3) and BUN 40 mg/dL(normal 7-20 mg/dL ). A urinalysis reveals hematuria and mild proteinuria, no glucose, and no ketones. On urine microscopic examination there are numerous RBC casts. Which of the following Immunofluorescence (IF) findings on renal biopsy is most likely to be present in this man? Select one:
- a. Mesangial deposition of IgA
  - b. Irregular granular deposition of C3
  - c. Negative Immunofluorescence
  - d. Granular deposits contain complement factors
  - e. Linear deposits of IgG in the glomerular basement membrane**

- 139) Regarding syphilis, which one of the following is most accurate? Select one:
- a. The characteristic lesion of primary syphilis is a painful vesicle on the genitals.
  - b. The number of organisms is low in secondary syphilis so the chance of transmission is low.
  - c. Aneurysm of the ascending aorta is a typical sign of congenital syphilis.
  - d. Mulberry molars are typical signs of secondary syphilis.
  - e. Motile treponemes can be seen by Dark field microscope.
- 140) The Thiazide diuretics have useful therapeutic effect in all of the following conditions except? Select one:
- a. Chronic edema associated with cardiac decompensation
  - b. ADH-secreting pulmonary tumors
  - c. Hypercalciuria
  - d. Diabetes insipidus
  - e. Hypertension
- 141) All following about contraceptives are true EXCEPT? Select one:
- a. Progestin-only emergency contraceptive are better tolerated than combination pills
  - b. Side effects: Myocardial infarction
  - c. Side effects: Weight gain
  - d. Contraindicated in renal diseases
  - e. Contraindicated in liver disease
- 142) A 50-year-old man is found to have blood in his urine during a routine checkup. An enlarged right kidney is found on X-ray examination. A tru cut biopsy of the renal mass shows glycogen-rich tumor cells. This malignant neoplasm most likely originates from which of the following tissues in the kidney? Select one:
- a. Glomeruli
  - b. Juxtaglomerular cells
  - c. Lymphatics
  - d. Renal papillae
  - e. Renal tubules
- 143) Gartner's cyst in vaginal wall is developed from? Select one:
- a. Cranial part of the uterovaginal canal
  - b. Metanephric duct
  - c. Definitive urogenital sinus
  - d. Mesonephric duct
  - e. Caudal part of the uterovaginal canal
- 144) All the following is true regarding renal cystic disease except? Select one:
- a. Kidneys in ADPKD are always bilaterally enlarged, usually symmetrically, heavy (weighing up to 4 kg).
  - b. Kidneys in ADPKD give the lobulated appearance on the external surface
  - c. (ARPKD) is more common than ADPKD
  - d. ARPKD is transmitted as an autosomal recessive trait
  - e. The kidneys in ARPKD are bilaterally enlarged with smooth external surface and retained normal reniform shape

- 145) Spermatogenesis begins in the ? Select one:  
a. Uterine horn. b. Rete testes. **c. Seminiferous tubules.** d. Seminal vesicles. e. Prostate
- 146) Choose the CORRECT match? Select one:  
a. Seminal vesicle ///// lined with stratified columnar epithelium  
b. Transitional prostatic acini ///// site of prostatic cancer  
**c. Stereocilia ///// principle cells in epididymis**  
d. Secondary spermatocytes ///// undergo metamorphosis  
e. Capacitation ///// secretion of acrosomal enzymes
- 147) All following are therapeutic indications of progestins EXCEPT? Select one:  
a. Contraception  
**b. Osteoporosis**  
c. Dysfunctional uterine bleeding  
d. Endometriosis  
e. Hormone replacement therapy
- 148) Concerning water reabsorption? Select one:  
a. In PCT is under the control of ADH.  
**b. Its obligatory type is called iso-osmotic water re-absorption.**  
c. Not related to solute re-absorption.  
d. Accompanied with glucose reabsorption.  
e. Accompanied with urea secretion
- 149) The following are false of drug prescribing in renal failure except? Select one:  
a. Drugs highly bound to plasma alpha 1-acid glycoprotein need initial dose reduction.  
b. The brain is less sensitive to CNS depressants.  
**C. Avoid nitrofuantoin because it causes serious systemic toxicity on accumulation.**  
d. Large doses of ACE inhibios are needed to treat renal hypertension.  
e. K-supplements and K-containing antacids are useful and safe when needed.
- 150) All the following statements are true regarding the male perineum EXCEPT? Select one:  
a. Ischiocavernosus muscle assist in the process of erection of the penis  
b. Sphincter urethrae muscle surrounds urethra in the deep perineal pouch  
c. The bulb of penis situated in the midline the urogenital diaphragm  
d. The corpora cavernosa are supplied by the dorsal artery of the penis  
**e. The skin of the penis is drained into the superficial inguinal nodes**
- 151) Which of the following does not have excretory function? Select one:  
**a. Pronephric kidney**  
b. Permanent kidney  
C. Metanephric kidney  
d. Prominent kidney  
e. Mesonephric kidney

- 152) Regarding Renal handling of water? Select one:
- a. Water transport is restricted to PCT.
  - b. Water transport occurs by osmotic diffusion initiated by solute re-absorption.**
  - c. Obligatory water re-absorption is under the control of ADH.
  - d. Maximumly in DCT.
  - e. Not detected in PCT
- 153) The kidneys keep acid base balance via doing all of the following except? Select one:
- a. Excretion of non-volatile acids.
  - b. Formation of ammonia.
  - c. Bicarbonate re-absorption.
  - d. Release of erythropoietin.**
  - e. Formation of acid phosphate in renal tubules
- 154) A 42-year-old male presented with fever, sweating and dry cough and treated as pneumonia with 1g of amoxicillin three times a day, to which he responded very well. Two weeks later his fever is back, this time with erythematous rash and decreased urinary output. Laboratory studies show creatinine 2 g/dl (normal 0.9 to 1.3) and eosinophilia. Urine analysis shows hematuria and mild proteinuria and some eosinophiles. Which of the following is the most likely diagnosis? Select one:
- a. Acute pyelonephritis
  - b. Acute tubular injury
  - c. IgA nephropathy**
  - d. Drug-induced interstitial nephritis
  - e. Post-streptococcal glomerulonephritis
- 155) Gender equality (Goal ..... ) cannot be achieved when taboos and myths prevent menstruating women and girls from full participation in society? Select one:
- a. SDG 6
  - b. SDG 3
  - c. SDG 4
  - d. SDG 8
  - e. SDG 5**
- 156) Active reabsorption of glucose occurs in ? Select one:
- a. Proximal tubule**
  - b. Loop of Henle
  - c. Distal tubule
  - d. Collecting duct
  - e. Bowman capsule
- 157) What are the meaning of mobile kidney? Select one:
- a. Failure of the ascent
  - b. Kidney does not reach its terminal position
  - c. Lateral rotation of the hilum
  - d. Abnormal ascent
  - e. Kidney does not fixate to the posterior abdominal wall**

158) Regarding *Treponema pallidum*, all are false EXCEPT? Select one:

- a. The bacteria cannot be found in lesions of primary syphilis.
- b. Condylomata acuminata is related to secondary syphilis.
- c. Its nonspecific antibodies decline after treatment.
- d. PR is specific test for *Treponema pallidum* infection.**
- e. It is resistant to penicillin.

159) Which is the most common location for penile invasive squamous cell carcinoma? Select one:

- a. Glans penis or prepuce.
- b. Shaft.**
- c. Distal urethral opening.
- d. Testis and scrotum.
- e. Corpus spongiosum or cavernosum.

إنتهى

بالتوفيق للجميع

