AIIMS PG NOV 2016 (Based on Memory)

- 1. Postherpetic neuralgia is defined as pain lasting beyond how many weeks
- (a) 1 week
- (b) 2 weeks
- (c) 3 weeks
- (d) 4 weeks
- 2. A 24-years-female presents with patchy hair loss in the right temporal and occipital region. Examination reveals non-scarring alopecia with multiple small broken hairs. Scrapings from scalp show mild inflammation, perifollicular hemorrhage and surrounding mild lymphocytes infiltration. What is the likely diagnosis?
- (a) Alopecia areata
- (b) Androgenic alopecia
- (c) Loose anagen hair
- (d) Trichotillomania
- 3. What is the ratio of chest compressions and breaths when a lone person is giving cardiopulmonary resuscitation
- (a) 30:1
- (b) 30:2
- (c) 15:1
- (d) 10:1
- 4. Why 100% oxygen is administered after nitrous oxide is discontinued on emergency from anesthesia?
- (a) Second gas effect
- (b) Diffusion hypoxia
- (c) For adequate analgesia
- (d) As air is costlier then oxygen
- 5. Non visualization of gallbladder in hepatic scintigraphy is suggestive of:
- (a) Chronic cholecystitis
- (b) Carcinoma gallbladder
- (c) Acute cholecystitis
- (d) Gallstones obstructing CBD
- 6. A surgeon to decide to operate a patient under epidural anesthesia. 3% xylocaine with adrenaline is used for administering epidural anesthesia. The patient suddenly develops hypotension after 3 minutes to administration.

What is the likely cause for this?

- (a) Systemic absorption of the drug
- (b) Vasovagal effect
- (c) Allergy to the drug preparation
- (d) Penetration into the subarachnoid space
- 7. Pigmentation of nail is caused by all of these drugs except:
- (a) Cyclophosphamide
- (b) Chlorpropamazine

- (c) Chloroquine
- (d) Amiodarone
- 8. A 12-years-old boy presented with gradually progressive annual plague on his buttocks with central scarring. What is the most likely diagnosis?
- (a) Granuloma annular
- (b) Lupus vulgaris
- (c) Tinea cruris
- (d) Annular psoriasis
- 9. During laryngoscopy and intubation procedure, all of these are true except:
- (a) A sight pressure may be applied at the cricoids cartilage
- (b) The laryngoscope is held in the right hand introduced from the right side of the patient.
- (c) The neck is fixed with extension at the atlanto occipital joint
- (d) After incisor to pull up the tongue and visualize the vocal cords
- 10. An elderly female had her house destroyed in an earthquake. Following this, she presented to your office with complaints of anxiety, sadness, lack of sleep, anger palpitations and despair, consider the following statements:
- (a) The lady is suffering from acute stress reaction.
- (b) The defense mechanism involved is projection
- (c) Drug of choice in this situation is risperidone
- (d) She needs referral to a psychiatrist for psychotherapy which of the following statement are true? er.com
- (a) a and c
- (b) b and d
- (c) a, and c
- (d) a and d
- 11. A-22-years-old male comes to your with complains of frequenting checking of doors even when they are locked. He is distressed about this fact. He is subsequently diagnosed to have obsessive compulsive disorder. Consider the following statements:
- (a) Repression and reaction formation are the defense mechanisms involved
- (b) SSRIS are the drug of choice
- (c) Risperidone may be used in SSRIS resistant cases to augment the response
- (d) Systemic desensitization is the psychotherapy of choice which of the above are correct statements:
- (a) a and b
- (b) b and c
- (c) b, c and d
- (d) a, b, c and d
- 12. Which of these is the correct sequence of Maslow's hierarchy of needs?
- (a) Safety physiological needs self actualization Belonging self esteem
- (b) Physiological needs Safety Belonging self esteem– self actualization
- (c) Safety self actualization Belonging physiological needs self esteem
- (d) Self actualization physiological needs Safety Belonging self esteem
- 13. A person has been referred to you by the court. You find a discrepancy between history and examination findings. Which of these conditions you should be aware of in this situation? (a) Malingering

- (b) Factitious
- (c) Somatization syndrome
- (d) Dissociative fugue
- 14. According to the Who definition of hearing loss, what is the value to classify as profound hearing loss?
- (a) 61 71 dB
- (b) > 81 dB
- (c) > 91 dB
- (d) > 101 dB
- 15. Maximum contribution to the refractive power of the eye is by which part of the eye?
- (a) Anterior surface of cornea
- (b) Anterior surface of lens
- (c) Posterior surface of lens
- (d) Posterior surface of cornea
- 16. What is the usual weight of rabbit used in ophthalmologist experiments?
- (a) 1.5 kg
- (b) 5 7 kg
- (c) 2.5 kg
- (d)10 12 kg
- 17. Which of these is the correct definition of blindness as per NPCB?
- (a) Diminution of field vision to 20 Or less in better eye
- (b) Inability of a person to count fingers from a distance of 3 meters
- (c) Vision 6/60 or less with best possible spectacle correction in the better eye
- (d) Vision 4/60 or less with best possible spectacle correction in the better eye
- 18. What is the power of the lens that should be used with indirect ophthalmoscope to visualize the retina?
- (a) + 90 D
- (b) + 58 D
- (c) + 60 D
- (d) + 20 D
- 19. A woman present with complete wound dehiscence 4 days after a laparotomy. After prescribing antibiotics for the infection, the surgeon decides to suture the wound. Which of these suture material should he use?
- (a) Vicryl
- (b) Mersilic
- (c) Catgut
- (d) Ethilon
- 20. Which of the following causes formation?
- (a) Movement at fracture site
- (b) Rigid immobilization
- (c) Compression plating
- (d) Intraosseous naliling

- 21. Partograph represents various stages of labor with respect to time. True about partograph is all except –
- (a) Each small square represents one hour
- (b) Alert and action lines are separated by a difference of 4 hours
- (c) Partograph recording should be started at a cervical dilation of 4 cm
- (d) Send the patient to first referral unit if the labor progression line crosses the alert line
- 22. The following graph represents the stages of labor. Which of the following statements is true about the graph C?
- (a) Secondary arrest after progression of labor
- (b) Prolonged active phase of labor
- (c) Prolonged latent phase / primary arrest of labor
- (d) Normal labor in a primigravida
- 23. Which of the following statement is not true about cervical cancer screening guidelines according to who?
- (a) Pap smear should repeated yearly in woman of reproductive age group
- (b) HPV test should be done five yearly in woman between age of 30 to 49 years
- (c) VIA/VILI is more reliable at older age as it becomes easier to identify the transformation one with age
- (d) Pap smear can be repeater less frequency if it comes out negative for 3 consecutive years
- 24. What is done for screening of Down's syndrome in first trimester?
- (a) Beta HCG and PAPP A
- (b) Unconjugated estradiol and PAPPA
- (c) AFP and Inhibin A
- (d) AFP and Beta HCG
- 25. What does of misoprostol is used orally to control bleeding in partum heamorrhage?
- (a) 1000 micrograms
- (b) 400 micrograms
- (c) 800 micrograms
- (d) 600 micrograms
- 26. The following graph represents the stages of labor. What is the maximum capacity of bakri balloon which used in post partum heamorrhage?
- (a) 200 ml
- (b) 300 ml
- (c) 500 ml
- (d) 1000 ml
- 27. A 38 week primigravida presented to the labor room with minimal labor pains and contraction. On heart rate of the patient is 86 / min and blood pressure is 126 /76 mm Hg. What should be done next?
- (a) Give oxytocin to augment labor
- (b) Observe the patient and wait for increase in uterine contractions
- (c) Sedate the patient by and give phenergan to decrease labor pains
- (d) Induce labor by artificial rupture of membranes
- 28. What is the drug of choice for precocious puberty in girls?
- (a) GNRH analogues

- (b) Danazol
- (c) Cyproterone acetate
- (d) Medroxy progesterone acetate
- 29. A young female presents to you with primary amenorrhea. Examination reveals normal breast development and absent axillary hairs. Pelvic examination shows a normally developed vagina with citomegaly. On ultrasound, gonads are visible in the inguinal region. What is the likely diagnosis?
- (a) Complete androgen insensitivity syndrome
- (b) Partial androgen insensitivity syndrome
- (c) Grandal dysgenesis
- (d) Mayer Rakitansy Kuster Huser syndrome
- 30. Which of the following statements is true regarding medical abortion?
- (a) Can only be done up to 72 days
- (b) Ultrasound should be done in all cases
- (c) Only a person certifield under MTP act can perform medical termination of pregnancy
- (d) If the patient has an LUCD in situ, it doesn't need to be removed
- 31. What should be the ideal temperature in delivery room?
- (a) 20 23 degrees C
- (b) 25 28 degrees C
- (c) 30 35 degrees C
- (d) 37 degrees C
- 32. Ideal route of drug delivery in neonatal resuscitation is
- (a) Intraosseous
- (b) Through umbilical artery
- (c) Through peripheral vein
- (d) Through umbilical vein
- 33. An unresponsive patient has been brought to you by the police. What is the first thing you will do?
- (a) Start chest compressions immediately
- (b) Check carotid pulse
- (c) Check for response and cell help
- (d) Start resuce breathes
- 34. In which of the diseases is the following appearance of calve seen in a child?
- (a) Spinal muscular atrophy
- (b) Muscular dystrophy
- (c) Myopathy
- (d) Peripheral neuropathy
- 35. Ponderal index is:
- (a) Head circumference to abdominal circumference ratio
- (b) Mid upper arm circumference to head circumference ratio
- (c) Weight in kilograms by cube of height in meters
- (d) Square root of height in feet by weight in grams
- 36. A neonate presented with jaundice on first day of life. How will you manage?

- (a) Observe only as it is mostly physiological jaundice
- (b) Exchange transfusion
- (c) Phototherapy
- (d) Liver function tests and liver biopsy as it is mostly due to cholestasis
- 37. Which of the following is a true diverticulum of esophagus?
- (a) Zenker's diverticulum
- (b) Meckel diverticulum
- (c) Epiphremic diverticulum
- (d) Parabronchial diverticulum
- 38. What is the recommended does of steroid for altaining fatal lung maturity?
- (a) inj. Betamethasona12 mg for 2 does 12 hours apart
- (b) inj. Betamethasone12 mg for 2 does 24 hours apart
- (c) inj. Dexanmethasone6 mg for 4 does 24 hours apart
- (d) inj. Dexamethasona12 mg for 2 does 12 hours apart
- 39. A-45-year-old patient presented to you with ongoing massive hematemesis. The patient is alert and hemodynamically stable. What will be the first step in management?
- (a) Do an urgent upper GI endoscopy
- (b) Put the patient in recovery position and secure airway
- (c) Insert a cannula and start IV
- (d) Send for blood transfusion
- 40. Which one of these is a muscle splitting incision?
- (a) Kocher's incision
- (b) Lanz incision
- (c) Rutherford Morrison incision
- (d) Pfannenstiel incision
- 41. In a child surgery was done for biliary stricture with hepatojejunal anstomosis. Postoperative bilirubin level after 2 weeks was 6 mg ℓ dl from a preoperative level of 12 mg ℓ dl. The reason for this could be
- (a) Normal lowering of bilirubin takes time
- (b) Delta bilirubin
- (c) Anastomotic stricture
- (d) Mistake in job technique
- 42. Which of these Scoring system is helpful in assessing serverity of wound infection?
- (a) South anapton grading scale
- (b) ASA classification
- (c) Glasgow score
- (d) APGAR
- 43. After midline laparotomy you have been asked to suture the incision. What length of suture material will you choose?
- (a) 2x incision length
- (b) 4x incision length
- (c) 6x incision length
- (d) 8x incision length



- 44. In a patient with obstructive jaundice, the bilirubin level is 40 mg/dl. What is the possible explanation for such a high level?
- (a) Liver Failure
- (b) Renal Failure
- (c) Complete obstruction of common bile duet
- (d) Malignant obstruction
- 45. A-44-years-old male underwent & VATS thymectomy for Myasthenia graves. During surgery, the pleural was accidentally injured. The surgeon decided to put a drain in the pleural cavity. Which of these statement is correct about the timing of removed of intercostals chest tube?
- (a) After partial expansion of lungs and < 50 ml output from drain for 2 consecutive days
- (b) After, complete expansion of lungs and < 30 ml output from drain for 2 consecutive days
- (c) On 4 day, irrespective of the output from the drain and lung expansion
- (d) After complete expansion of lungs and < 20 ml output from drain for 2 consecutive days
- 46. Identify the instrument shown below:
- (a) DPL catheter
- (b) Laparoscopic port trocar
- (c) Peritoneal dialysis catheter
- (d) Endoscopic ultrasound probe
- 47. A neonate presented with cicatrizing skin lesions all over the body with hypoplasia of all limbs. An MRI of the brain reveled diffuse cerebral atrophy. An ophthalmologic evaluation reveals chorioretinitis. Which of these tests is must likely to show a positive result in this patient?
- (a) Anti HCMV antibodies
- (b) Anti toxoplasma antibodies
- (c) Anti VZV antibodies
- (d) Anti rubella antibodies
- 48. A neonate on routine examination at birth was found to have hepatomegaly. Rest of the examination was antibodies were found to be positive. What sequelae in later life is the child at risk of?
- (a) Renal failure
- (b) Sensorineural hearing loss
- (c) Hepatic fibrosis
- (d) Mental Retardation
- 49. A child presented at 2 years of age with delayed motor development mental retardation and finger biting. He was normal at birth. He subsequent develops cerebral palsy arthritis and dies due to renal failure at age of 25 years. What is the likely enzyme deficiency implicated?
- (a) HGPRT deficiency
- (b) ADA deficiency
- (c) Hexosaminidase deficiency
- (d) Ornithine transcarbamyl deficiency
- 50. Corebellar lesion can produce all of these except?
- (a) Ataxic Gait
- (b) Past Pointing
- (c) Resting tremor

- (d) Nystagmus
- 51. All of these muscles have parallel oriented fibers except:
- (a) Sartorius
- (b) Rectus abdominis
- (c) Tibialis anterior
- (d) Sternohyoid
- 52. Calcium absorption from gut is in increased by all except:
- (a) Phytates
- (b) Vitamin D
- (c) Alkaline PH in gut
- (d) Protein in diet
- 53. Which of these nerve root is the control center for the Stapedial reflex?
- (a) Superior olivary complex
- (b) Lateral lemnisus
- (c) Inferior callicullis
- (d) Medical geniculate body
- 54. Countercurrent mechanism in not seen in
- (a) Eyes
- (b) Testes
- (c) Kidney
- (d) Intestine
- 55. Diffusion capacity of carbon monoxide is decreased in all except:
- (a) Polyeythemia
- (b) Interstital lung disease
- (c) Emphysema
- (d) Pulmonary vascular disease
- 56. Anterior $2/3^{rd}$ of the tongue is demarcated from the posterior $1/3^{rd}$ by:
- (a) Passavant's ridge
- (b) Circumvallate papillae
- (c) Sulcus terminalis
- (d) Epiglottis
- 57. Parasympathetic nervous system comprises of?
- (a) Cranial nerves 3, 5, 7, 10 and sacral nerves 51 55
- (b) Cranial nerves 3, 7, 9, 10 and sacral nerves 52 54
- (c) Cranial nerves 5, 7, 9, 10 and sacral nerves 52 54
- (d) Cranial nerves 3, 5, 7, 10 and sacral nerves 52 54
- 58. Endo cochlear potential is -
- (a) + 45 MV
- (b) -45 MV
- (c) 60 MV
- (d) $+ 85 \, MV$
- 59. Common intermediate in synthesis of steroid hormones is:

(a)	7	Dihydrocholo	oesterol
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- (b) Cortisone
- (c) Pregnenolone
- (d) 7 Hydroxyeholssterol
- 60. The PH of a solution containing 5millimole per liter of H ions is closest to what value?
- (a) 2.3
- (b) 1.7
- (c) 3.5
- (d) 4.2
- 61. RQ of a person on pure carbohydrate diet will be:
- (a) 1
- (b) 0.7
- (c) 1.2
- (d) 1.5
- 62. A farmer ingested some unknown poisonous seeds and had pain and vomiting. Soon he developed paralysis of his lower limbs which ascends till it affected the respiratory muscles and he died within two days. Identify the likely cause:
- (a) Strychnine nux vomica
- (b) Conium maculatum
- (c) Solanum lycopersicum
- (d) Abrusprecatorium
- 63. Which vitamin is synthesized in vivo in the body by human?
- (a) Folic acid
- (b) Niacin
- (c) Panthothenic acid
- (d) Cyanocobalamin
- 64. Polysomngraphy contains all of the following tests except?
- (a) Electroencephalography
- (b) Pulse oximetry
- (c) Electroculography
- (d) Arterial pCo2 measurement
- 65. Potential developed due to movement of freely diffusible ions across a semi permeable membrane is calculated using:
- (a) Nernst equation
- (b) Gibbs equation
- (c) Goldman Hodgkin Katz equation
- (d) Fick principle
- 66. Migratory motor complexes in the gut reappear after intervals of:
- (a) 90 min
- (b) 120 min
- (c) 60 min
- (d) 150 min
- 67. Hyperpolarizing cyclienucleotide (HCN) gated channels have a role in:
- (a) Cardiac rhythm generation

- (b) Generation of mitochondrial ascion potential
- (c) Memory formation
- (d) Myocardial muscle contraction
- 69. Correctly math the following:

Declaration

- (1) Declaration of Geneva
- (2) Declaration of Helsinki
- (3) Declaration of Tokyo
- (4) Declaration of Oslo
- (a) 1 iii, 2 ii, 3 iv, 4 i
- (a) 1 III, 2 II, 3 IV, 4 -
- (b) 1 ii, 2 iii, 3 iv, 4 i (c) 1 - iv, 2 - i, 3 - ii, 4 - iii
- (d) 1 ii, 2 iv, 3 iii, 4 i

- **Motive**
- (i) Global health
- (ii) Hippocratic oath
- (iii) Medical Ethics
- (iv) Inhuman practices and torture
- 70. Hco₃/H₂co₃ is the best butter because it is?
- (a) PKa near physiological PH
- (b) Its components can be increased or decreased in the body as needed
- (c) Good acceptor and donor of H ions
- (d) Combination of a weak acid and weak base
- 71. At physicological PH, which of these amino acids has a positive charge?
- (a) Arginine
- (b) Aspartic acid
- (c) Valine
- (d) Isoleucine
- 72. All of these processes take place in mitochondria except:
- (a) Beta oxidation of fatty acids
- (b) DNA synthesis
- (c) Fatty acid synthesis
- (d) Protein synthesis
- 73. Ammonia from brain is removed as:
- (a) Glutamine
- (b) Alanine
- (c) Urea
- (d) Glutamate
- 74. CG islands in our DNA are important for:
- (a) Acetylation
- (b) Methylation
- (c) T-RNA synthesis
- (d) DNA replication
- 75. A patient has normal blood glucose level as estimated by Glucose Oxidase Peroxidase method, shows positive Benedicts test in urine. Which of the following is likely cause?
- (a) Fruetosemia
- (b) Galactosemia
- (c) Denaturation of glucose
- (d) Faulty tests

- 76. Which of these is most effective for gluconeogenesis?
- (a) Citrate stimulation of acetyl carboxylase
- (b) Acetyl COA stimulation of pyruvate carboxylase
- (c) Fructose 2, 6 piphosphate stimulation of phosphofrukinase 2
- (d) Fructose 1, 6 piphosphate stimulation of phosphofrukinase 1
- 77. Which of the following is maximum in HDL as compare to other lipoproteins?
- (a) Cholesterol
- (b) Triglycerides
- (c) Apoproteins
- (d) Fatty acids
- 78. Change in sex hormone binding globulin will most affect levels of which of these hormones?
- (a) Testosterone
- (b) Estrogen
- (c) Progesterone
- (d) DHEA
- 79. Rapid source of energy by resynthesizing ATP for excening museles is:
- (a) Glycalysis
- (b) TCA cycle
- (c) Glycogenolysis
- (d) Phosphocreatine
- 80. A 59 year old presents with pain, numbnees and impaired sensation over half of the face along with ataxia, nystagmus, dysphagia and hoarseness of voice. His pain and thermal sensations over opposite half are impaired, Horner's syndrome is present. Likely cause of the disease is thrombosis of which vessel?
- (a) AICA (Anterior inferior cerebellar artery ?
- (b) PICA (Posterior inferior cerebellar artery
- (c) Basilar
- (d) Pontine vessels
- 81. All of these structures lie in relation to the left ureter except:
- (a) Mesentery of sigmoid colon
- (b) Bifurcation of common iliac artery
- (c) Quadratus lumborum
- (d) Gonadal vessels
- 82. Extraembryonic mesoderm is derived from:
- (a) Epiblast
- (b) Primary yolk sac
- (c) Secondary yolk sac
- (d) Hypoblast
- 83. According to the new RNTCP guidelines, the following is not suspect of tuberculosis?
- (a) Conformed extrapulmonary tuberculosis patient with cough of 2 weeks or more
- (b) HIV-Positive patient with cough of any duration
- (c) Contacts of sputum Positive tuberculosis patient with cough of any duration
- (d) Diabetic person having cough of any duration

- 84. Which of these is an obligate intracellular pathogen?
- (a) Listeria monosytogenes
- (b) Coxiellaburnetili
- (c) Legionella pneumophila
- (d) Klebsiella
- 85. What is the most common clinical manifestation who larvae of ascaris, hookworm and strongyloides migrates through the body?
- (a) Asymptomatic
- (b) Pneumonitis
- (c) Acute dermal reaction
- (d) Anemia
- 86. Why are schizot and late trophozoite stages of plasmodium falciparum not seen in peripheral blood smear?
- (a) They are sequestered in the spleen
- (b) Due to adherence to the capillary endothelium, they are not seen in peripheral blood
- (c) Due to antigen antibody reaction and removed
- (d) They are seen in mosquito blood
- 87. Which of the following is not used in osteoporosis?
- (a) Milnacipran
- (b) PTH
- (c) Strontium ranelate
- (d) Denosumab
- 88. Which of the following statements in incorrect about rifabutin as compared to rifampicin?
- (a) It has higher bioavailability and stronger activity against all mycobacterium
- (b) It has a longer half life
- (c) It has lasser drug interactions
- (d) It is preferred in patients with HIV.
- 89. A patient presented to the hospital with serves hydrophobia. You suspect rabies obtain corneal scraping from the patients. What test should be done on this specimen for a diagnosis of Rabies?
- (a) RT PCR for rabies virus
- (b) Negri bodies
- (c) Antibodies to rabies virus
- (d) Indirect immunofluorescence
- 90. In a suspected patient of dengue, all of these are acceptable investigations at day 3 of presentation except?
- (a) NSI antigen detection
- (b) Viral culture and isolation in C6/36 cell line
- (c) RT PCR
- (d) Elisa for antibody against Dengue virus
- 91. All of these are seen in hemolytic anemia except:
- (a) Yelowing of eyes and sclera

- (b) Increased LDH
- (d) Low reticulocyte count
- 92. The resolving power of a Microscope upon all except:
- (a) Size of the aperature
- (b) Focal length of the eyepiece
- (d) Wavelength of light source used
- 93. During autopsy of a patient died due to suspected myocardial infarction, the heart was stained with triphenyletrazolium tetrachloride dye. What will be the color of the viable myocardium?
- (a) Blue
- (b) White
- (c) Red
- (d) Dark Brown
- 94. MHC antigens are absent on:
- (a) Monocyte
- (b) Platelet
- (c) Erythrocyte
- (d) Neutrophil
- 95. A-26 year female presents with pallor with a hemoglobin of 9.5 mg/DI, PCV 30 mm Hg count of 2 million per cubic millimeters. What is the likely diagnosis?
- (a) Sideroblasticanemia
- (b) Iron deficiency anemia
- (c) Thalassemia
- (d) Folic acid deficiency
- 96. Fine needs aspiration cytology is not enough to diagnose.
- (a) Papillary Carcinoma of thyroid
- (b) Carcinoma breast
- (c) Adeno carcinoma lung
- (d) Follicular Carcinoma of thyroid
- 97. How is follicular carcinoma differentiated from bening thyroid disease?
- (a) Invasion of basement membrane
- (b) Presence of mitotic figures
- (c) Orphan Annie eye nuclei
- (d) Staining with calcitonin
- 98. All of these are seen in MEN 1 syndrome except:
- (a) Posterior pituitary tumors
- (b) Pancreatic neuroendocrine tumors
- (c) Foregut carcinoid
- (d) Parathyroid hyperplasia
- 99. Most consistent feature of RPGN is:
- (a) Crescent formation
- (b) Mesangial cell proliferation
- (c) IGA deposition

- (d) Loss of foot processes
- 100. Stain useful for identifying premalignant lasions of the lip is:
- (a) Hematoxylon and eosin
- (b) Toluidine blue
- (c) Giemsa
- (d) Alizarin red
- 101. All of these strains are used in tattooing except:
- (a) India ink
- (b) Vermillion
- (c) Prussian
- (d) Osmin blue
- 102. Digoxin is obtained from a plant product and a half of 36 hours. How does this information help us in formulating treatment?
- (a) To adjust maintenance does of digoxin required to keep the blood levels within therapeutic
- (b) Intravenous administration in emergency and urgent dosing
- (c) Long half-life permits altrernate day dosing
- (d) It requires a high loading does to be administered
- 103. Which of these sites is least commonly preferred for insulin injection?
- (a) Anterior thing
- (b) Lateral thing
- (c) Dorsum of arm
- (d) Around umbilicus
- 104. All of these are potentially serious side effects of thinamide group of antithyroid drugs except:
- (a) Agranulocytosis
- (b) Hepatic dysfunction
- (c) Severe rash
- (d) Anaphylaxis
- 105. The correct sequence of systemic absorption if a drug is administered through skin is:
- (a) Scrotum > foream > scalp > postauricular skin > plantar surface
- (b) Scrotum > postauricular skin > foream > scalp > plantar surface
- (c) Plantar surface > scalp > foream > postauricular skin > scrotum
- (d) Postauricular skin > foream > scrotum > scalp > plantar surface
- 106. An 80 kg male patient presented to the emergency with hypotension and have been instructed to start him on an inotrope at a dose of 10 mcg / kg / min. Each 5ml amo of th drug contains 200 mg drug.

You choose 2 ampules of the drug and decide to mix it with saline to make a 250 ml solution. What should be the flow rate of the drug solution to maintain the BP of the patient (assuming 16 drops = 1ML)?

- (a) 16 drops / min
- (b) 8 drops / min
- (c) 4 drops / min
- (d) 10 drops / min

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Seizure

107. About anti – epileptic drugs, which of the following is an incorrect match?

1. Focal Lamotrigine, **Valproate**

Carbamazepine, **Seizures**

Phenytoin

2. Absence Carbamazepin Ethosuximide,

Valproate

3. Myoclonic **Vaiproate** Clonazepam

Lamotrigine Seizures

4. Generalized **Vaiproate** Phenytoin, **Tonic clonic**

Lamotrigine Carbamzaepine

Topiramate

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- 108. An 86-years-old lady presented with severe constipation, she is a known hypertensive on medications for 10 years. In clinic, her BP is 157/98 mm Hg with a heart rate of 58/min. On taking here BP in the supine position it was found to be 90/60 mm Hg. She also has a recent history of depression. She is taking atenolol, Thaizide, impramine, haloperidol and Docusate. What will be the next best step in management?
- (a) Change atenolol and Thaizide to calcium channel blocker and ACF inhibitor and add bisacodyl for constipations
- (b) Change impramine and haloperidol to fluoxetine and respeirdone and add bisacodyl for constipations
- (c) Only add bisacodyl for constipations add continue rest of the medications
- (d) Discontinue all her madications and start her on steroids
- 109. A-25-years-old unidentified male from roadside is brought by police to emergency room with disorientation, altered sensorium and vomiting. He has a BP of 90/70 mm Hg. Heart rate of 110/min, temperature - 36.4 c and respiratory rate of 11/min. On examination, he had bilateral pin-point pupils. What is the suspected diagnosis?
- (a) Pontine hemorrhage
- (b) Opioid poisoning
- (c) Dhatura poisoning
- (d) Hypothermia
- 110. Continuous murmur can be heard in all except:
- (a) Patent ductus arteriosus
- (b) VCD with aortic regurgitation
- (c) Pulmonary AV Fistula
- (d) Coronary AV Fistula
- 111. A patient presents to the emergency with altered sensorium. All of these tests should be done except?
- (a) Non contrast CT head
- (b) Lumbar puncture
- (c) Random blood sugar

- (d) Complete blood counts
- 112. A patient diagnosed with carcinoma of lung presented with a serum calcium level of 16.4 mm 01/l. What will be the first step in management?
- (a) IV fluids and frusemide
- (b) Immediate hemodialysis
- (c) Disphosphonates
- (d) Chemotherapy with gemcitabine and carboplatin
- 113. About Transfusion related acute lung injury (TRLI), all are true except
- (a) Mortality is less than 10%.
- (b) Signs and symptoms usually subsides within 2-3 weeks of onset
- (c) Supportive care is the mainstay of treatment
- (d) Steroids have adoubtful role in management
- 114. A-40-years female is diagnosed to have epilepsy and is started of phenytoin and valproate. 4 weeks later, she develops a diffuse rash all, over her body, which gradually disappears on stopping both the drugs. In how many weeks, will the rash reapkear when she is rechalenged with phenytoin and valproate?
- (a) 1 week
- (b) 2 weeks
- (c) 3 weeks
- (d) 4 weeks
- 115. Which of these infections cause a non-distributed rash?
- (a) Epidemic typhus
- (b) Typhoid
- (c) Meals
- (d) Secondary syphilis
- 116. Which of these is not true regarding iron supplementation in iron deficiency anemia?
- (a) Administer a small diluted does first prior to infusion to look for any allergy to iron preparation
- (b) Oral iron therapy should be stoped once the patient achives a hemoglobin of > 12 mg / dl
- (c) If gastric intolerance to oral iron therapy occurs, all patients should be administered parenteral forms.
- (d) Parenteral iron supplementation is required in a patient with HB of less then7 mg / DI
- 117. Which of the following drugs can be given in renal failure safety?
- (a) Saxagliptin
- (b) Sitaglipitin
- (c) Vidaglipitin
- (d) Linaglipitin
- 118. Thrombocytopenia causing drugs are all except
- (a) Cephalsporin
- (b) Multivitamins Containing Vitamin K
- (c) NSAIDS
- (d) Anti depressants
- 119. Which of the following drugs can be used in benazodiazepine toxicity?
- (a) Protamine sulphate

- (b) Flumazenil
- (c) Barbiturate
- (d) Ethyl alcohol
- 120. Metformin causes a servers, sometimes life threatening side effect of lactic acidosis. All of the following factors increase the risk of lactic acidosis except
- (a) Liver dysfunction
- (b) Advanced age
- (c) Smoking
- (d) Renal failure
- 121. Drug advertisement letter is a necessary component of each drug formulation and contains various information about the drug like drug dosing, frequency and half life which of the following information need not be given in the drug advertisement latter
- (a) Research papers and other articles preparing efficiency of the drug
- (b) Date of expiry of the drug
- (c) Race, but serious life threatening adverse effects
- (b) Common, not so serious adverse effects
- 122. A patient presented with history of vomiting for last three days. On examination, signs of dehydration were present. On further investigation, the patient was found to have raised creatinine, a ph = 7.22, pco2 = 30mm Hg, Hco3 = 9 meq, Na+ = 138 meq and k+ = 3.4meq/l identify the acid base abnormality observed in this patient?
- (a) Metabolic acidosis
- (b) Metabolic alkalosis
- (c) Mixed metabolic acidosis and metabolic alkalosis
- (d) Mixed metabolic acidosis and respiratory acidosis
- 123. Calculate the base deficit in a patient of weight 75 kg with aph = 6.96, pco2 = 30mm Hg and Hco3 = CmEq/I?
- (a) 300mEq
- (b) 400mEq
- (c) 500mEq
- (d) 800mEq
- 124. Metered dose inhalers are used in management of asthma. To use a MDL, it is recommended to shake will before use breath out, bring the inhaler to your mouth, start to breath in slowly, press the tap of you inhaler over and keep breathing in slowly until you have taken a fall breath and then hold your breath for 10 seconds. Some patients might need a second puff of MDI for some patient might need a second puff of MDI symptomatic relief. Which of these instructions for reusing the MDI is not correct?
- (a) Wait for iminute between two puffs
- (b) Shake the inhaler again before use
- (c) Carefully rinse your mouth and throat
- (d) Clean the inhaler before use
- 125. Palivizumab is a humanized monoclonal antibody. For which of the following conditions has it been approved for?
- (a) Coxsackie virus
- (b) Avain influenza
- (c) Parainfluenza

(d) Respiratery syncytial virus

- 126. A-2-month-old child was brought to the sub center by his mother with complaints of fever for two days. Weight of the child is 2 kg. On examination, the child is restless and irritable, skin pinch went back in 2 second, oral mucosa is dry and eyes were sunken. There were ten pustules on his forehead? What should be done at the sub center?
- (a) Refer to higher centre with mother giving frequent sips of ORS
- (b) Immediately admit the child, give IV fluids and then refer to higher center
- (c) Give first does of antibiotic and refer to higher center
- (d) Send child home with few packets of ORS and call after 3 days.
- 127. Which of the following is the most common symptom of aortoiliac occlusive disease?
- (a) Calf claudication
- (b) Gluteal claudication
- (c) Impotence
- (d) Symptomless
- 128. What is the frequency of laser used in cataract surgery.
- (a) 10_{.15}seconds
- (b) 10_{.12} seconds
- (c) 10_{-6} seconds
- (d) 10 seconds
- 129. A sexually active male presented with warts on his penis which of these strains of HIV is most commonly the cause of these lesions?
- (a) HPV 6 and 11
- (b) HPV 16 and 18
- (c) HPV 1, 2 and 3
- (d) HPV 3, 5
- 130. An abandoned dead male fetus was found and bought by police for autopsy. The following was the report "Eyes are open, papillary membrane is absent, crown Rump length is 23 cm, tests are at the superficial inguinal ring and weight of the fetus is 1000 g" What is the estimated age of the fetus?
- (a) 5 months
- (b) 6 months
- (c) 7 months
- (d) 8 months
- 131. A-38-years-old female presented to the emergency with extensive burns. The patient had grade 3 burns on the face back, upper arms and forearms along with singeing of hair. Which of these is not a proof of inhalation burs?
- (a) Yellow colored sputum
- (b) Singeing of eyebrow and facial hair
- (c) Blackish soot deposit on posterior part of tongue
- (d) Hoarseness & stridor of voice
- 132. A-20-years-old patient presented to the emergency with altered sensorium. NCCT revealed hydrocephalus, requiring urgent neurosurgical intervention. The patient had nobody accompanying or any identity proof. Under which of these sections of Indian penal code, the

neurosurgeon can perform the procedure without obtaining an informed consent from a guardian?

- (a) Section 92
- (b) Section 90
- (c) Section 89
- (d) Section 87
- 133. A doctor used the same needle used in a patient with HIV inject in another patient. The latter patient on testing found to be infected with HIV. The doctor s punishable for this negligence according to which section of India penal code
- (a) Section 269
- (b) Section 203
- (c) Section 202
- (d) Section 166B
- 134. The following patient was brought for an autopsy. What is the cause of the discoloration of the region?
- (a) Hematoma formation
- (b) Loss of blood
- (c) Methemoglobin
- (d) Sulphmethemoglobin
- 135. A lady is brought from village, unconscious, about 12 hours after ingesting some kind of unknown poison her heart rate is 103/min, blood pressure in 90/50 mm Hg and respiratory rate is 19/min. Her breath smells like kerosene. Which of the following should not be done in emergency room?
- (a) Vasopressors should be administered intravenously
- (b) Atropine should be administered till singers of recovery
- (c) Gastric lavage should be done
- (d) Immediate airway management
- 136. St. Anthony's fire refers to poisoning by:
- (a) Aflatoxin
- (b) Ergot alkaloids
- (c) Crotalaria juncea
- (d) Spainsh Fly
- 137. All of these are suggestive of domestic violence in a child except:
- (a) Bucket Handle fractures of metaphyses
- (b) Corner fractures
- (c) Micro fractures in the metaphysical region
- (d) Wormian bones
- 138. A study was done in 3 states to see the mean blood pressure in each community. Health workers were assigned and they visited each house in the three communities. Mean blood pressure in each community was found and compared. What type of study design is represented were?
- (a) Cohort study
- (b) Cross sectional study
- (c) Case control study
- (d) Field trial

- 139. A-42-year-old woman from a dry state who ingested rye for long time presented with complaints of weakness in both the lower limbs, nausea and fatigue. Overdue couse of time, she is completely unable to walk. What is the likely cause -
- (a) Lathyrussativus
- (b) Argemonemexicana
- (c) Amanita
- (d) Ergot alkaloids
- 140. CA-125 is a marker for screeing of ovarian cancer. To characterize this test, histopathological confirmation of overian cancer was done in a cohort of patients. 60/100 woman who tested positive for this test actually had ovarian cancer. What is the negative predictive value of this test
- (a) 20 / 100
- (b) 40 / 100
- (c) 60 / 100
- (d) 80 / 100
- 141. Which of these is the best determining the threshold for diagnosis of a positive test?
- (a) Pre test probability
- (b) Receptor operator curve
- (c) Pearson coefficient
- (d) Analysis of variance
- 142. In a cohort study to study association between facture and disease, the risk ratio was calculated to be equal to 1. What does this signifies?
- (a) There is no association present between the facture and the disease
- (b) There is positive association between the facture and the disease
- (c) There is negative association between the facture and the disease
- (d) Data insufficient to comment
- 143. A study was conducted to find average intra ocular pressure. IOP was measured in 400 people and the mean was found to be 25mm Hg with a standard deviation of 10mm Hg. What is the range in which 10p of 95% of the population would be lying?
- (a) 22 28 mm Hg
- (b) 20 30 mm Hg
- (c) 24 26 mm Hg
- (d) 23 27 mm Hg
- 144. Hypereosinophilic syndrome is a disease characterized by elevated eosinophil count in the blood for arrest 6 months, without any recognizable cause, with involvement of either heart, nervous system or bone marrow. What should be the eosinophil count for diagnosis?
- (a) $> 500 / \text{mm}_3$
- (b) $> 1000 / mm_3$
- $(c) > 1500 / mm_g$
- (d) > 2000 / mm

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ANSWER KEY

1	d		26	С	51	С		76	b		101	b	126	С
2	а		27	b	52	а		77	С		102	а	127	b
3	b		28	а	53	а		78	а		103	b	128	b
4	b		29	b	54	а		79	d		104	d	129	а
5	С		30	С	55	а		80	b		105	b	130	С
6	d		31	b	56	С		81	С		106	b	131	а
7	d		32	d	57	b		82	b		107	b	132	а
8	b		33	b	58	d		83	d		108	b	133	а
9	d		34	b	59	С		84	b		109	b	134	d
10	d		35	С	60	а		85	а		110	С	135	С
11	b		36	С	61	а		86	b		111	b	136	b
12	b		37	d	62	b		87	а		112	а	137	d
13	а		38	b	63	b		88	а		113	b	138	b
14	b		39	b	64	d		89	а		114	а	139	а
15	а		40	b	65	а		90	d		115	d	140	С
16	b		41	С	66	С		91	d		116	b	141	а
17	b		42	а	67	а		92	С		117	d	142	а
18	d		43	b	68	d	1	93	С		118	b	143	С
19	d		44	b	69	b		94	С		119	b	144	С
20	а		45	d	70	b	1	95	d		120	С	145	
21	С		46	b	71	а		96	O d		121	а	146	
22	а		47	С	72	С		97	а		122	С	147	
23	а		48	b	73	а		98	а		123	С	148	
24	а		49	а	74	b		99	а		124	d	149	
25	d		50	С	75	b	2	100	b		125	d	150	
25 d 50 c 75 b 100 b 125 d 150														