ooks, visit our website **www.jaypeebrothers.com,** for detailed information on PGMEE books

Gold Standard Book
for PGMEE Preparation

Volume 2

AIIMS ESSENCE

2014–2011

Authentic Questions of AIIMS PG Entrance Examination with Finest Explanations and References from Standard Textbooks

Pritesh Singh



5th EDITION

Contents

1. AIIMS November 2014 Questions	**1–16**
Explanations	*17–142*
2. AIIMS May 2014 Questions	**143–158**
Explanations	*159–270*
3. AIIMS November 2013 Questions	**271–283**
Explanations	*284–434*
4. AIIMS May 2013 Questions	**435–449**
Explanations	*450–570*
5. AIIMS November 2012 Questions	**571–583**
Explanations	*584–710*
6. AIIMS May 2012 Questions	**711–724**
Explanations	*725–858*
7. AIIMS November 2011 Questions	**859–872**
Explanations	*873–1000*
8. AIIMS May 2011 Questions	**1001–1012**
Explanations	*1013–1136*

AIIMS MAY 2014

Multiple Choice Questions

ANATOMY

1. All of the following are derived from ectoderm except:
a. Hair follicles
b. Arrector pili
c. Sebaceous glands
d. Mammary glands

2. Which of the following muscles is not a derivative of mesoderm?
a. Skeletal muscles
b. Smooth muscles
c. Cardiac myocyte
d. Dilators of pupil

3. Buccopharyngeal membrane develops from:
a. Ectoderm + Mesoderm
b. Ectoderm + Endoderm
c. Mesoderm + Endoderm
d. Ectoderm + Mesoderm + Endoderm

4. Epithelioid cells include which of the following:
a. Islet cells of pancreas
b. Theca lutein cells
c. Cells of Brunner's gland
d. Interstitial cells of Leydig

5. Venous drainage of esophagus is into the:
a. Azygous and inferior thyroid veins
b. Azygous, inferior thyroid and left gastric veins
c. Azygous, inferior thyroid and right gastric veins
d. Superior thyroid, inferior thyroid veins, azygous and hemi-azygous veins

6. The most common variant in the blood supply of colon is:
a. Absent right colic artery
b. Absent middle colic artery
c. Absent left colic artery
d. Absent superior rectal artery

7. All of the following are contents of mesorectal fascia except: *(AIIMS May 2015, May 2014, November 2013, JIPMER 2014)*
a. Superior rectal vein
b. Inferior rectal vein
c. Para rectal nodes
d. Inferior mesenteric plexus

8. Which of the following is not true about blood testis barrier?
a. It is formed by Sertoli cells
b. It is formed before primary spermatogenesis
c. Any rupture of barrier can cause immune response to germ cells
d. Germ cells are not necessary for formation of the barrier

9. Which of the following is not true about dura mater?
a. It is the outermost layer of the cranial meninges
b. It has periosteal and meningeal layer
c. Dural venous sinuses lie below the meningeal layer
d. It is supplied by a branch of the V cranial nerve

10. Which of the following structures is seen in the cavernous sinus?
a. Maxillary division of V nerve
b. Mandibular division of V nerve
c. Internal carotid artery
d. Trochlear nerve

11. Medulla receives its blood supply from all of the following arteries except:
a. Anterior spinal artery
b. Posterior inferior cerebellar artery
c. Vertebral artery
d. Superior cerebellar artery

12. Which of the following is supplied by contralateral nerve nucleus?
a. Superior rectus
b. Inferior rectus
c. Medial rectus
d. Inferior oblique

13. Trigeminal nerve supplies all of the following muscles except:
a. Stylohyoid
b. Medial pterygoid
c. Lateral pterygoid
d. Tensor veli palatini

JAYPEE BROTHERS

14. Facial nerve gives out secretomotor fibres to all of the following except:
a. Lacrimal gland
b. Parotid gland
c. Submandibular gland
d. Nasal glands

PHYSIOLOGY

15. In an encephale isole preparation, the transections is done at:
a. First cervical spinal segment
b. Level of medulla
c. Midpontine level
d. Midcollicular level

16. Wave patterns of EEF, EOG and EMG are depicted below. The B pattern belongs to (Figure was not provided in the exam):
a. NREM sleep
b. REM sleep
c. Wakefulness
d. Quiet wakefulness

17. If a supramaximal stimulus is applied to an excitable tissue like a nerve or a muscle and it elicits a response, then the tissue is said to be in:
a. Absolute refractory period
b. Relative refractory period
c. Latent period
d. After-depolarization

18. Nuclear bag fibres are related to:
a. Force
b. Length
c. Tone
d. Length and velocity

19. True about Golgi tendon organ is:
a. Sense the dynamic length of the muscle
b. Are involved in reciprocal innervations
c. Are stimulated by alpha motor neuron
d. Sense muscle tension

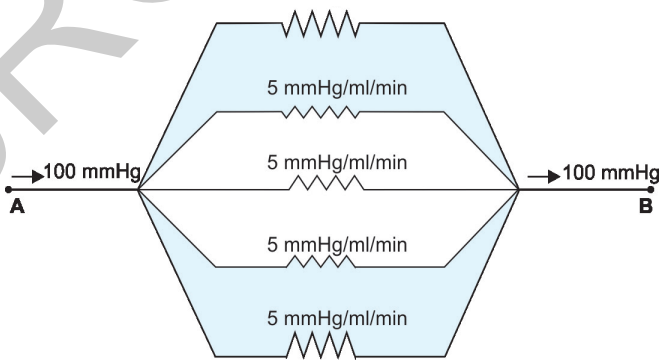
20. The mechanostretch receptors in joints and ligaments are:
a. Fast adapting
b. Slow adapting
c. Non adapting
d. Adapt differentially for different stresses

21. During hip replacement, loss of joint and ligament receptors leads to:
a. No loss of sensation
b. Loss of all sensations
c. Joint sensation lost in stable position
d. Decrease in movements and decrease in sensation

22. Fast fatigue fibres are recruited during walking:
a. In the beginning
b. In the end
c. Throughout the walking process
d. When small neurons are excited

23. Which of the following when increased can cause a shift of the oxygen-hemoglobin dissociation curve to the left?
a. pH
b. Temperature
c. 2,3-BPG
d. pCO_2

24. In the given circuit, the inward flow pressure is 100 mm Hg and the outward flow pressure is 10 mm Hg. Each of the parallel circuit has a resistance of 5 mm Hg/mL/min. Calculate the flow across the circuit:



a. 45 mL
b. 90 mL
c. 3.6 mL
d. 135 mL

25. Which of the following defines the pressure in the vascular system in the absence of blood flow? (Asked twice)
a. Pulse pressure
b. Critical closing pressure
c. Mean circulatory filling pressure
d. Perfusion pressure

26. Which of the following defines the pressure in the vascular system in the absence of blood flow?
a. Pulse pressure
b. Critical closing pressure
c. Mean circulatory filling pressure
d. Perfusion pressure

JAYPEE BROTHERS

27. Which of the following is true about measurement of blood pressure?
a. Bladder in the blood pressure cuff should cover more than 80% of the arm area
b. The person should be comfortably sitting and blood pressure cuff should be at a higher level than the heart
c. Caffeine intake induces decrease in blood pressure
d. Blood pressure increases during sleep

28. The left atrial 'v' wave is larger than 'a' wave in comparison to right atrium because:
a. Left side is high pressure system
b. Left atrium is more compliant
c. Left atrium is compressed posteriorly by pulmonary veins
d. Right atrial pressure is transmitted into the pulmonary circulation

29. The cells of the human body most sensitive to ischemia are:
a. Neurons
b. Nephrons
c. Cardiac myocyte
d. Hepatocytes

30. The most important hormone that increases gallbladder contraction after a fatty meal is:
a. Gastrin
b. Secretin
c. CCK
d. GIP

31. The most serious complication of prolonged sitting position is:
a. Venous air embolism
b. Dysrhythmias
c. Hypotension
d. Nerve palsies

BIOCHEMISTRY

32. Not an intermediate product of citric acid cycle is:
a. Acyl Co-A
b. Succinyl Co-A
c. Citrate
d. α-ketoglutarate

33. The enzyme common to both glycogenolysis and glycogenesis is: *(AIIMS May 2015, May 2014)*
a. Glycogen phosphorylase
b. Glycogen synthase
c. Glucotransferase
d. Phosphoglucomutase

34. In the entire human genome, coding DNA constitutes:
a. 2%
b. 1%
c. 0.1%
d. 4%

35. Methylation of cytosine leads to:
a. Increased expression of gene
b. Decreased expression of gene
c. No effect on gene expression
d. Mutation

36. 2,3-BPG binds to____sites of haemoglobin and___the affinity for oxygen
a. 4, decreases
b. 1, decreases
c. 4, increases
d. 1, increases

37. The last to receive electrons in electron transport system is:
a. Coenzyme-Q
b. $FADH_2$
c. O_2
d. Cytochrome-C

PATHOLOGY

38. A 50-year old patient presents with weakness and bleeding episodes. His leukocyte count was 48 × 109 cells/L and platelet count was 50 × 109 cells/L. There was dysplasia of neutrophils with a differential count showing 76% neutrophils, 8% blast cells, 12% myelocytes and metamyelocytes and 4% other cells Bone marrow examination showed 14% blasts. Cytogenetics showed t(8, 21). The most likely diagnosis is:
a. Acute myeloid leukemia
b. Chronic myeloid leukemia
c. Chronic lymphoid leukemia
d. Myelodysplastic syndrome

39. Which of the following regarding cellular events in acute inflammation is not correct?
a. PECAM/CD31 is responsible for neutrophil activation
b. Components of complement can assist in chemotaxis
c. Neutrophil margination is assisted by selectins
d. ICAM-1/VCAM-1 is responsible for neutrophil adhesion

40. Which of the following factors is morphogenic as well as mitogenic?
a. Fibroblast growth factor
b. Platelet derived growth factor
c. Bone morphogenetic protein
d. Insulin-like growth factor

JAYPEE BROTHERS

41. ARDS is due to a defect in:
a. Type 1 pneumocytes
b. Type 2 pneumocytes
c. Clara cells
d. Endothelial cells

42. Verocay bodies are seen in:
a. Meningioma
b. Hemangioma
c. Glioma
d. Schwannoma

43. Histopathologically, rosettes are not seen in:
a. Retinoblastoma
b. Neurocysticercosis
c. PNET
d. Medulloblastoma

PHARMACOLOGY

44. Which of the following is not converted into an active metabolite?
a. Lisinopril
b. Fluoxetine
c. Cyclophosphamide
d. Diazepam

45. Methacholine is an: *(AIIMS May 2015, May 2014)*
a. M1 receptor agonist
b. M2 receptor agonist
c. M3 receptor agonist
d. M4 receptor agonist

46. a2 agonists cause all of the following except:
a. Analgesia
b. Hyperalgesia
c. Sedation
d. Anxiolysis

47. Which of the following is a mixed alpha and beta agonist?
a. Dobutamine
b. Fenoldopam
c. Epinephrine
d. Phenylephrine

48. Peripheral vasospasm is observed with which of the following anti-Parkinsonian drugs? *(Asked twice)*
a. Ropinirole
b. Levodopa
c. Bromocriptine
d. Entacapone

49. Peripheral vasospasm is observed with which of the following anti-Parkinsonian drugs?
a. Ropinirole
b. Levodopa
c. Bromocriptine
d. Entacapone

50. True statement regarding methadone are all except:
a. It is a long acting μ-receptor agonist
b. It is rapidly absorbed from the gastrointestinal tract and is detected in plasma 30 minutes after oral administration
c. The primary use of methadone is relief of chronic pain
d. The onset of analgesia is 30-60 minutes after parenteral administration and 1-2 hours after oral administration

51. The site of action of the loop diuretic furosemide is:
a. Thick ascending limb of loop of Henle
b. Descending limb of loop of Henle
c. Proximal convoluted tubule
d. Distal convoluted tubule

52. Which of the following pair of drugs and its indications is matched incorrectly?
a. Carbamazepine – (Indication was not mentioned in the exam)
b. Octreotide – treatment of diarrhea associated with vasoactive intestinal peptide tumours
c. Desmopressin – treatment of diabetes insipidus
d. hCG – treatment of infertility in men and women

53. Time dependent killing and prolonged post-antibiotic effect is seen with: *(AIIMS May 2014, 2013, May 2013)*
a. Fluoroquinolones
b. Beta lactam antibiotics
c. Clindamycin
d. Erythromycin

54. Non-nucleoside reverse transcriptase inhibitors (NNRTIs) include all of the following except:
a. Nevirapine
b. Delavirdine
c. Etavirine
d. Lamivudine

55. Which of the following antitubercular drugs is associated with hypothyroidism?
a. Rifampicin
b. Pyrazinamide
c. Ethionamide
d. Streptomycin

AIIMS ESSENCE
JAYPEE BROTHERS

56. The most common side effect of cancer chemotherapy is nausea with or without vomiting. The anticancer drugs vary in their ability to cause nausea and vomiting. Which of the following anti-cancer drugs is least likely to cause nausea and vomiting?

a. Chlorambucil
b. Cisplatin
c. Doxorubicin
d. Daunorubicin

57. Which of the following medications is essential for ameliorating the toxicity of pemetrexed?

a. Folinic acid and vitamin B_6
b. Folic acid and vitamin B_{12}
c. Vitamin B_6 and Vitamin B_{12}
d. Folic acid and dexamethasone

MICROBIOLOGY

58. Which of the following is correct regarding staining of microbes?

a. Gram positive bacteria stain black
b. Gram negative bacteria stain red
c. Gomorri's methenamine silver stains fungi green
d. Calcoflour white stains acanthamoeba red

59. Both DNA and RNA are present in:

a. Bacteria
b. Prions
c. Virioids
d. Plasmid

60. Which of the following is not true regarding IgE antibodies?

a. It mediates release of histmaine and other chemical mediators
b. It is the primary antibody involved in allergic reactions
c. It is involved in anti-parasitic immune responses
d. May cross the placenta and fix complement

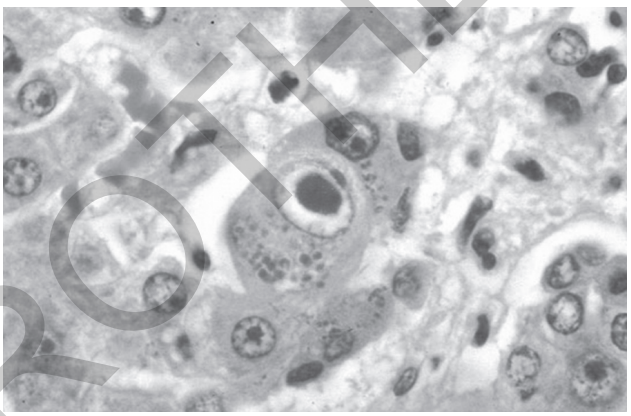
61. A 10-year old child presented with severe sore throat and a grey pseudomembrane over pharynx and tonsils. The organism causing this infection is most likely:

a. A gram positive bacillus
b. A gram negative bacillus
c. A catalase-positive gram positive coccus that grows in clusters
d. A single-stranded positive sense RNA virus

62. The hemoatoxylin and eosin staining of a lung section during autopsy of a patient suffering from AIDS shows desquamation of type 1 pneumocytes with prominent intracuclear basophilic inclusion bodies surrounded by a clear halo. The CD4 count was less than 100/mm^3 before demise. The most likely diagnosis causing these features is:

a. Acute respiratory distress syndrome
b. *Pneumocystic jiroveci* pneumonia
c. CMV pneumonia
d. *Mycobacterium avium-intracellulare* pneumonia

63. Giemsa stained smear of epithelial cells obtained from a newborn with hepatosplenomegaly is shown below. What is the most likely cause of this congenital infection?



a. CMV
b. Rubella
c. HIV
d. Ebstein-Barr virus

64. The causative organism for AIDS was identified in the year:

a. 1983
b. 1976
c. 1994
d. 1969

65. The term 'recrudescence' in malaria refers to:

a. Same as relapse in *P.vivax* and *P. ovale* malaria
b. Resistance to antimalarial drugs
c. Recurrence of sexual parasitemia after completion of treatment
d. Reinfection with the same species

FORENSIC MEDICINE

66. The legal responsibilities of an intoxicated person is given under Section _____of IPC:

a. 82
b. 83
c. 84
d. 85

JAYPEE BROTHERS

67. A person is liable for punishment for perjury which is defined under?
a. Section 190 of IPC
b. Section 191 of IPC
c. Section 192 of IPC
d. Section 193 of IPC

68. The most important sign of age determination as per Gustafson's method is:
a. Root transparency
b. Root attrition
c. Root resorption
d. Paradentosis

69. A person of eonism derives pleasure from:
a. Wearing clothes of opposite sex
b. Fondling female body parts
c. Rubbing genitalia against body of other person
d. Seeing the opposite partner nude

70. Cannabis is the most commonly used illicit drug in India. Which of the following is not derived from cannabis?
a. Bhang
b. Charas
c. Ganja
d. Afeem

71. The characteristic burnt rope odour is caused by toxin of:
a. Cannabis
b. Tobacco
c. Strychnine
d. Chloral hydrate

72. The active principle of white oleander is:
a. Nicotine
b. Nerin
c. Abrine
d. Pilocarpine

73. A doctor is treating a patient with viper snake bite. He should not forget that viper venom is:
a. Histotoxic
b. Vasculotoxic
c. Musculotoxic
d. Neurotoxic

PSM

74. The prospectively evaluated, double-blinded, randomized clinical trail represents the 'gold-standard' for providing evidence for therapeutic decision making. This was first proposed by the father of evidence-based medicine:
a. Tolstoy
b. Sackett
c. Hippocrates
d. da Vinci

75. True statements regarding the calculation of HDI are all of the following except:
a. The minimum value for combined gross enrolment ratio is fixed at 0%
b. The minimum value for adult literacy rate is fixed at 0
c. The maximum value of life expectancy at birth is taken as 100
d. The maximum value for per capita income is fixed at 40,000

76. Regarding education in HDI, true statement is:
a. In gross enrolment, only secondary education is considered, not primary education
b. 1/3rd weightage is given to adult literacy
c. 2/3rd weightage is given to gross enrolment
d. Country's achievement is computed on the basis of adult literacy

77. Immune thrombocytopenic purpura (ITP) is a complication observed with which of the following vaccines? (Asked twice)
a. MMR
b. HiB conjugate polysaccharide vaccine
c. Typhoid Vi polysaccharide vaccine
d. Influenza vaccine

78. Immune thrombocytopenic purpura (ITP) is a complication observed with which of the following vaccines?
a. MMR
b. HiB conjugate polysaccharide vaccine
c. Typhoid Vi polysaccharide vaccine
d. Influenza vaccine

79. Chemoprophylaxis is indicated for all of the following except:
a. Cholera
b. Measles
c. Meningococcal meningitis
d. Conjunctivitis

80. All of the following statements regarding INH chemoprophylaxis are correct except:
a. It is cheap
b. It is not feasible to apply on a large scale
c. It has risk of drug-induced hepatitis
d. It is not highly clinically effective

81. Positive predictive value is a function of sensitivity, specificity and:

JAYPEE BROTHERS

a. Absolute risk
b. Relative risk
c. Incidence
d. Prevalence

82. All of the following are correct regarding the period of isolation in the following diseases except:
a. Chicken pox: 6 days after the onset of rash
b. Measles: 3 days after the onset of rash
c. German measles:7 days after the onset of rash
d. Herpes zoster: 6 days after the onset of rash

83. Which of the following regarding oral polio vaccine (OPV) is not true?
a. Useful in epidemics
b. Excretion of virus in stools may cause disease to the unimmunized
c. Rapid antibody response
d. Protective even in the presence of maternal antibodies

84. HIV sentinel surveillance provides data:
a. To monitor disease trends
b. To identify high risk population
c. To estimate disease incidence
d. To assess the quality of related services

85. A boy complained of unprovoked bite by a local dog in the community. The dog was later caught by the local animal authorities and appeared to be healthy. The most appropriate course of action would be: *(AIIMS May 2015, May 2014)*
a. Give post-exposure prophylaxis to the bitten person with cell-culture derived vaccine
b. Withhold vaccination, keep the dog under observation for ten days for signs of rabies
c. Test the dog for rabies antibodies
d. Immediately carry out euthanasia of the dog

86. Evidence of decreased risk of cardiovascular disease is associated with all of the following except:
a. Vitamin E supplementation
b. Low to moderate daily alcohol consumption
c. Regular physical activity
d. Potassium

87. Under the school vision screening programme, vision screening in schools is done by:
a. Ophthalmologist
b. Optometrist
c. NGO worker
d. Teacher

88. Under the National Rural Health Mission, an ASHA will receive financial remuneration for all of the following except: *(AIIMS May 2014, May 2013)*
a. Institutional deliveries
b. Measuring the birth weight of neonates
c. Zero dose of DPT and OPV
d. Registration of births

89. The provisions under Janani Shishu Suraksha Karyakram (JSSK) include all of the following except:
a. Free food to the mother in the hospital
b. Cash incentive for institutional deliveries
c. Free transport to the mother and baby to/from hospital
d. Free treatment of the neonate and infant in all public health facilites

90. Calculate the neonatal mortality rate for a population according to the data of 2012. Number of neonatal deaths- 450, number of stillbirths-212, total number of live births-12,450.
a. 36
b. 15
c. 90
d. 56

91. Infant mortality rate includes all of the following except:
a. Early neonatal deaths
b. Late neonatal deaths
c. Post neonatal deaths
d. Stillbirths

92. A girl is having white hair. 40% of her classmates are also suffering from the same problem. None of the other people from the same village have white hair. Her brother who is staying with an aunt in the neighbouring village is also normal and does not have white hair. Which of the following explains the probable cause of her white hair?
a. Environmental
b. Genetic
c. Nutritional
d. Infection

93. Severe Acute Malnutrition (SAM) in India is defined as:
a. Very low weight for age (below -3 Z scores of the mean WHO standards for growth), by visible severe wasting, or presence of nutritional edema
b. Very low weight for age (below -3 Z scores of the mean WHO standards for growth) only
c. Visible severe wasting, or presence of nutritional edema

JAYPEE BROTHERS

d. Very low weight for height (below -3 Z scores of the mean WHO standards for growth), by visible severe wasting, or presence of nutritional edema

94. The most sensitive indicator of environmental iodine deficiency is:
a. Serum T4 levels
b. Serum T3 levels
c. Urine iodine excretion
d. Neonatal hypothyroidism

95. All of the following can cause epidemic in post-disaster period except: *(AIIMS May 2014, November 2013)*
a. Leishmaniasis
b. Leptospirosis
c. Rickettsiosis
d. Acute respiratory infections

96. The haemoglobin levels of pregnant females in a community was found to have a mean of 10.6 g/dL and a standard deviation of 2 g/dL. What is the minimum haemoglobin level below which 5% of the pregnant females will have their haemoglobin levels?
a. 7.32
b. 8.64
c. 6.68
d. 8.96

97. Universal Health coverage in India was recommended by which of the following committees?
a. Multipurpose worker committee
b. Health development and planning committee
c. High level expert committee
d. Medical education committee

98. All of the following provisions are included in the primary health care according to the Alma Ata declaration except:
a. Adequate supply of safe drinking water
b. Provision of food supply
c. Provision of free medicines
d. Basic sanitation

MEDICINE

99. Which of the following is not a characteristic feature of multiple myeloma?
a. Increased Ig levels in serum
b. Positive ANA
c. Plasmacytosis
d. M spike on electrophoresis

100. A 60-year old obese male with a history of chronic smoking since childhood presents in ICU with pelvic fracture due to fall from height. On the 4th day of the ICU stay, he developed sudden tachypnoea, fall in SpO_2 and hypotension. On 2D echo, there was a dilation of right ventricle and tricuspid regurgitation. What would be the next immediate step?
a. D-dimer assay
b. Administration of heparin
c. Pericardiocentesis
d. Systemic thrombolysis

101. A 4-year old girl presents with severe vomiting after a viral fever of 5 days. She is hospitalized and develops cerebral edema. Liver biopsy is most likely to demonstrate which of the following?
a. Centrizonal hemorrhagic necrosis
b. Non-alcoholic steatohepatitis
c. Ring granulomas
d. Marked microvesicular steatosis

102. A 40-year old obese female presents with fullness of right upper quadrant of abdomen. Her medical history is significant for Type 2 diabetes mellitus and hyperlipidemia. Liver biopsy is most likely suggestive of which of the following diagnoses?
a. Non-alcoholic steatohepatitis
b. Peliosis hepatis
c. Autoimmune hepatitis
d. Primary biliary sclerosis

103. A young female patient presents with jaundice and elevated liver enzymes. She has a history of two smilar episodes in the past. Her serum ANA was 1:40 and IgG was 2400 IU. Her serum copper levels were normal and viral markers were negative. A liver biopsy was carried out and based on the pathology report, you treated her with immunosuppressants and the patient's condition improved. What was the most likely finding on pathology report to suggest the treatment?
a. Non-alcoholic steatohepatitis
b. Hemosiderosis
c. Autoimmune hepatitis
d. Primary biliary cirrhosis

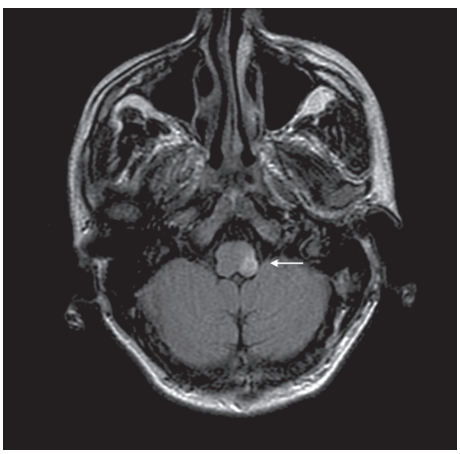
104. Laxative abuse is associated with:
a. Hypokalemia
b. Hypomagnesemia
c. Hypoglycemia
d. Colonic spacticity

105. Which of the following is not a diagnostic criteria for declaring brainstem death?
a. Absence of brainstem reflexes

JAYPEE BROTHERS

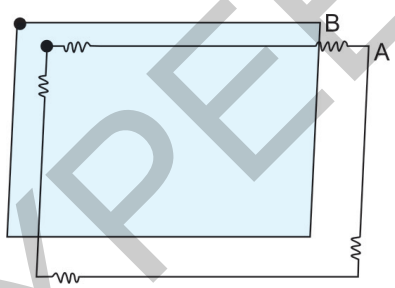
b. A positive apnea test
c. Lack of cerebromotor response to pain in all extremities
d. Absence of stretch reflex from all extremities is essential

106. A vascular lesion in the mid-brainstem level in the area depicted in the figure can cause all of the following except:



a. Deviation of the tongue to the same side
b. Contralateral loss of pain and temperature below the neck
c. Nystagmus
d. Paralysis of soft palate

107. Two persons A and B were told to draw a square from the blank and filled circle, respectively. The square drawn by A is irregular. What could be the possible cause?



a. Lesion in basal ganglia
b. Lesion in subthalamic nucleus
c. Lesion in cerebellum
d. Physiological tremors

108. One of the following drugs is used in the treatment of acute bacterial meningitis:

a. Erythromycin
b. Sulfamethoxazole
c. Ceftriaxone
d. Streptomycin

109. The right atrium chronic overload is indicated by a P wave of more than:

a. 2.5 mm
b. 3.5 mm
c. 4.5 mm
d. 5.5 mm

110. Anti-neutrophil cytoplasmic antibodies (ANCA) is seen in:

a. Wegener's Granulomatosis
b. Diabetes mellitus
c. Rheumatoid arthritis
d. Churg-Strauss syndrome

SURGERY

111. The first priority in management of a case of head injury with open fracture of shaft of femur is:

a. Neurosurgery consultation
b. Give IV fluids
c. Intubation
d. Splintage of fracture

112. Neurogenic shock is characterized by:

a. Hypertension and tachycardia
b. Hypertension and bradycardia
c. Hypotension and tachycardia
d. Hypotension and bradycardia

113. During resuscitation, artefacts of fractured ribs most commonly involve:

a. $2^{nd} - 4^{th}$ ribs
b. $3^{rd} - 5^{th}$ ribs
c. $4^{th} - 6^{th}$ ribs
d. $5^{th} - 7^{th}$ ribs

114. A 12-year old girl presents with nodular goiter. Which of the following statements regarding her evaluation and management is incorrect?

a. 99 m-Tc scan should be performed to determine whether the nodules are hypofunctioning or hyper-functioning
b. Functional thyroid nodules are usually benign
c. All nodules > 4 cm should be resected irrespective of cytology
d. FNAC should be performed for allnodules > 1 cm in diameter

115. Which of the following incisions is taken for diaphragmatic surgery? *(AIIMS May 2015, May 2014)*

a. Transverse
b. Circumferential
c. Vertical
d. Radial

JAYPEE BROTHERS

116. Which of the following is not an etiological factor for pancreatitis?
a. Abdominal trauma
b. Hyperlipidemia
c. Islet cell hyperplasia
d. Germline mutations in the cationic trypsinogen gene

117. A 50-year old male presents with large bowel type diarrhea and rectal bleeding. On sigmoidoscopy, a cauliflower-like growth is seen in the rectum. Colectomy specimen on histopathology shows adenocarcinoma. Which of the following prognostic investigations is not required?
a. Microsatellite instability
b. c-myc mutations
c. EGFR mutations
d. k-RAS mutations

118. Which of the following drugs is useful for the treatment of advanced prostate cancer? *(AIIMS Nov 2014, May 2014)*
a. Ganirelix
b. Cetrorelix
c. Abarelix
d. Goserelin

119. An elderly male presents 2 months after renal transplanatation with nephropathy. Which of the following can be a viral etiological agent?
a. Polymoa virus BK
b. Human herpes virus type 6
c. Hepatitis C
d. Human papilloma virus, high risk types

120. A 7-year old boy presents with a right-sided hemangioma and left-sided focal seizures. The most likely diagnosis is:
a. Neurofibromatosis
b. Incontinetia pigmenti
c. Hypermelanosis of Ito
d. Sturge-Weber disease

OBS AND GYNAE

121. All of the following indicate superimposed pre-eclampsia in a pregnant female of chronic hypertension except: (Asked twice)
a. New onset proteinuria
b. Platelet count < 75,000
c. Increase in systolic BP by 30 mm Hg and diastolic by 15 mm Hg
d. Fresh retinal hypertensive changes

122. All of the following indicate superimposed pre-eclampsia in pregnant female of chronic hypertension except:
a. New onset proteinuria
b. Platelet count < 75,000
c. Increase in systolic BP by 30 mm Hg and diastolic by 15 mm Hg
d. Fresh retinal hypertensive changes

123. Which of the following antihypertensives is not given in pregnancy? *(AIIMS May 2015, May 2014)*
a. Enalapril
b. α-methyldopa
c. Labetalol
d. Nifedipine

124. All of the following can be administrated in acute hypertension during labour except:
a. IV labetalol
b. IV nitroprusside
c. IV dihydralazine
d. IV diazoxide

125. Which of the following is not a part of HELLP syndrome?
a. Hemolysis
b. Elevated liver enzymes
c. Thrombocytopenia
d. Retroplacental hemorrhage

126. A cesarian section was done in the previous pregnancy. All of the following would be indications for elective cesarean section except:
a. Breech
b. Macrosomia
c. Polyhydramnios
d. Post-term

127. Which of the following is responsible for pubertal growth in females?
a. Decreased level of adrenal androgens at puberty
b. High level of estrogen at puberty
c. Pulsatile release of GnRH during sleep
d. Increased sensitivity of HPO axis to estrogen

128. One of the following forms the basis for sex chromatin testing?
a. Barr body
b. Testosterone receptors
c. Hormone levels
d. Phenotypic features

129. Hysteroscopic myomectomy scores over open myomectomy in all of the following except:

JAYPEE BROTHERS

a. Less recurrence
b. Less post-operative pain
c. Less bleeding
d. Early ambulation

PAEDIATRICS

130. A 32-week, 1400 g neonate is born to a primigravida. The baby did not require resuscitation and showed stable vitals. The baby was transferred to the NICU. How will you manage the feeding of the patient?
a. Start total enteral feeding and IV feeding not required
b. Start IV feeding with minimal enteral feeding
c. Start IV feeding and introduce feeding on 2nd day of life
d. Start parenteral feeding and institute oral feeding on 2nd day of life

131. Which of the following is not a component of Kangaroo mother care (KMC)?
a. Skin to skin contact
b. Supplementary nutrition
c. Exclusive breast feeding
d. Early discharge and follow-up

132. A 32-week baby is born to a mother with eclampsia, who was given IV magnesium sulphate. The baby was resuscitated and transferred to the NICU. 12 hours later, the baby showed hypotonia, lethargy, constricted pupils and two episodes of seizures. The staging of HIE is:
a. 1
b. 2
c. 3
d. There is no HIE

133. Asymmetric Moro's reflex at birth is indicative of:
a. HIE
b. Brain damage
c. Erb's palsy
d. Kernicterus

134. A very preterm baby on 30 mL/kg of enteral feeding developed sudden severe abdominal distension with visible bowel loops on day 6 of life. The baby also showed temperature instability and lethargy. X-ray of the abdomen showed portal venous gas. The staging of NEC is: *(AIIMS May 2014, November 2013)*
a. 1b
b. 2a
c. 2b
d. 3a

135. Which of the following babies has the least risk of developing hypoglycaemia?
a. A baby born to mother treated with beta blockers
b. Infant of diabetic mothers
c. Appropriate for gestational age babies
d. IUGR babies

136. The most common fungal infection in the neonates transmitted by caregiver's hand is:
a. *Candida albicans* b. *Candida glabrata*
c. *Candida tropicalis* d. *Candida parapsilosis*

137. A child has deficient bone mineralization with low serum calcium, high serum phosphorus, with decreased urinary excretion of calcium and phosphorus and elevated levels of alkaline phosphatase. The most likely diagnosis is:
a. Nutritional rickets b. Renal tubular rickets
c. Renal glomerular rickets d. Celiac rickets

138. 'Bull-neck' is seen in severe cases of which of the following?
a. Diphtheria
b. Tubercular lymphadenitis
c. Mumps
d. Goitre

139. In a rural clinic, a 3-year old girl child is brought by her mother and is emaciated. Her haemoglobin was 5 g/dL. The girl also has edema over her knees and ankles with discrete rash on her knees, ankles and elbows. The most likely worm infestation causing these manifestations is:
a. Hook worm b. Round worm
c. Whip worm d. Pin worm

140. A 6-week baby presents with cough and cold for the past 3 days. Respiratory rate is 48/min. On examination, patient is febrile with wheezing but no chest indrawing. Which of the following is not true? *(AIIMS May 2014, November 2013)*
a. Child has pneumonia
b. Antibiotics are not required
c. Wheezing to be treated
d. Fever to be treated

141. A 10-year old child presents with edema, oliguria and frothy urine. He has no past history of similar complaints. On examination, his urine was positive for 3+ proteinuria, no RBCs/WBCs and no casts. His serum albumin was 2.5 g/L and serum creatinine was 0.5 mg/dL. The most likely diagnosis is:
a. IgA nephropathy *(AIIMS May 2015, May 2014)*
b. Minimal change disease
c. Acute interstitial nephritis
d. Membranous nephropathy

JAYPEE BROTHERS

142. A 6-year old girl presents with fever for the past 5 days, generalized erythematous rash, strawberry tongue and cervical lymphadenopathy. The most likely diagnosis is: (Asked twice)

a. Kimura disease
b. Kawasaki disease
c. Scarlet fever
d. Rosie-Dorfman syndrome

143. A 6-year old girl presents with fever for the past 5 days, generalized erythematous rash, strawberry tongue and cervical lymphadenopathy. The most likely diagnosis is:

a. Kimura disease
b. Kawasaki disease
c. Scarlet fever
d. Rosie-Dorfman syndrome

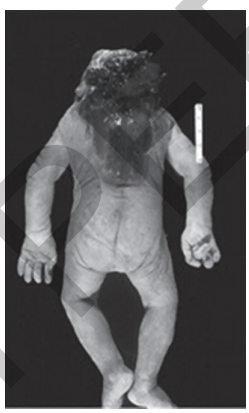
144. Enzyme replacement therapy is available for:

a. Gaucher's disease
b. Pompe disease
c. San Philipo disease
d. Fabry's disease

145. A child presents with albinism. He should be evaluated for:

a. ENT consultation
b. Eye consultation
c. Electrocardiography
d. Neurosurgery

146. A 34-week female fetus was born as shown below. Identify the congenital anomaly:



a. Anencephaly
b. Iniencephaly
c. Anen-iniencephaly
d. Complete craniospinal rachischisis

147. A 1.5 year old female is brought to the clinic with complaints of excessive enlargement of head, intolerance to feeds and severe malnourishment. MRI imaging was suggestive of a medulloblastoma causing obstructive hydrocephalus. Which of the following is an example of irrational management of the patient?

a. Craniotomy and sub-total excision of the tumour. Surgeon leaves the layer of the tumour adherent with colliculus
b. First ventirculoperitoneal shunt was done
c. CCNU and vincristine were given as chemotherapy
d. Radiotherapy 35-40 Gy was given to the whole craniospinal axis

148. Which of the following is not an example of a syndrome caused by uniparental disomy? *(AIIMS May 2014, November 2013)*

a. Prader-Willi syndrome
b. Angelman syndrome
c. Russell-Silver syndrome
d. Bloom syndrome

ORTHOPAEDICS

149. In a case of tuberculosis of the thoracic spine, the earliest sign of cord compression is:

a. Bladder dysfunction
b. Extensor plantar
c. Motor weakness
d. Sensory loss

150. A 5-year old boy presents with pain and swelling in diaphysis of tibia. He also complains of fever. On examination, his ESR was raised. Which of the following is the likely diagnosis?

a. Ewing sarcoma
b. Chondrosarcoma
c. Osteogenic sarcoma
d. Fibrosarcoma

151. The signs of malignant transformation in osteochondroma are all except:

a. Pain
b. Weight loss
c. Increase in size
d. Increase in thickness of cartilage cap

152. A 27-year old male presents with low backache, that occurs early in the morning, associated with stiffness, and persists for more than 30 minutes. On examination, his chest expansion is also restricted. The most probable diagnosis is:

a. Rheumatoid arthritis
b. Oteoarthritis
c. Gouty arthritis
d. Ankylosing spondylitis

JAYPEE BROTHERS

for detailed information on PGMEE books, visit our website **www.jaypeebrothers.com,** for d

AIIMS ESSENCE

Salient Features

- Authentic questions of AIIMS with exact language and options including all image-based questions
- Fully coloured, thoroughly revised, updated from 20th edition of Harrison, 27th edition of Bailey & Love, 9th edition of Robbins, 12th edition of Goodman Gillman, 10th edition of Schwartz, 20th edition of Sabiston, 41st edition of Gray's Anatomy, 25th edition of Park, 30th edition of Harper, 25th edition of Ganong
- Thoroughly verified answers from subject specialist, faculty members of Dr Pritesh Institute and PG aspirants
- Explanations in tabulated form
- Explanations incorporating only high yielding and relevant facts
- Highlighted important, golden facts and previously asked questions
- Controversial questions and image-based questions are handled with special care to clear the concept
- Explanations from latest editions of standard and most authentic text books
- Line diagrams to minimise tedious efforts
- Mnemonics for faster learning

Sir I read your Surgery Essence & AIIMS Essence book. Both books are fabulous and are must for every PG Aspirant. All topics are explained very nicely in great manner, keeping it simple & yet not missing the very basics and essentials of every subject. The AIIMS Essence book is the best book for AIIMS Pattern, all subjects are comprehensively covered. Image based questions are especially taken care of, for AIIMS. Sir, would be looking for the new editions of both the books. Hats off to your both books.

—Aditya Sood, GMC Amritsar, AIR-2278, State Rank-39

Sir I have just gone through your beautiful endeavour in the form of AIIMS Essence, wonderful job sir. The most striking feature of this book is the large number of diagrammatic explanations in full details especially of Anatomy, as visual explanations are always easy to grasp and memorize. This special feature I don't think is available in any of the books in the market. Hope you will come with more beautiful editions for benefitting PG Aspirants.

—Khusru Nomani

Sir I secured Rank 288 in AIIMS. I just wanted to thank you for your book AIIMS Essence it is a very good book sir. The way you have covered the topics is just commendable. I really like the simplified manner of presentation and to the points notes of the book. I look forward to your guidance and support in future. Once again thank you for the book.

—Lovepriya Sharma

Namaste sir, I am from Nepal. I bought your AIIMS book and I personally loved the book. Answers of the book are so much concept clear.

—Prakash Khadka

Ambition is the first step towards success, the second is action. The action should be smart enough that can make you reach your goal. This book can help you achieve your dreams as the preparation is lacking if you don't know the correct answers to previous year's papers. AIIMS Essence is an attempt to provide you with the authentic questions and accurate answers with appropriate explanation of the topics asked. The confidence you gain from knowing the repeat questions will surely get you ahead in the race. The book has been updated from the most recent editions of Robbins, Harrison, Goodman Gillman, Schwartz, Sabiston, Gray's Anatomy, Park, Harper and Ganong. The answers have been meticulously revised by the subject specialists, faculty members of PGMEI as well as PG aspirants. Explanations incorporate high yielding and relevant facts. Explanations are presented in tabulated form along with line diagrams and mnemonics which makes the learning efficient and interesting. While writing this book, special emphasis has been given to controversial and image-based questions as they are the ones which really make the difference. There is no secret routine, the intelligence go in drain if it is not combined with consistent hard work. Make the right choices to build a better future. All the best…



Dr Pritesh Singh
Director Dr Pritesh Institute
MBBS (MAMC), MS (Surgery)
FMAS, FIAGES

Dr Pritesh Singh, graduate from Maulana Azad Medical College and postgraduate from Lady Hardinge Medical College, New Delhi, India, is an excellent teacher and has been taking awe inspiring classes in various countries since 2009. He is amongst the best faculty and is very popular with students because of his spellbinding classes. He is a renowned educationist and author of SURGERY ESSENCE, which needs no introduction and AIIMS ESSENCE and DPG entrance examination books. The students all over the country admire the way he teaches. He is not just a source of inspiration for his pupils rather he is their role model, as he is young and dynamic. He sets a positive example with his style of teaching, courtesy, cooperation and professionalism. Some students say he is a magician who keeps his students spellbound throughout his class. His performance speaks volumes about his knowledge and precision.

Available at all medical bookstores
or buy online at www.jaypeebrothers.com

JAYPEE BROTHERS
Medical Publishers (P) Ltd.
www.jaypeebrothers.com
Join us on facebook.com/JaypeeMedicalPublishers

ISBN 978-93-5270-924-3
9 789352 709243