

## AIIMS November 2005 Solutions,

Some answers are marked as doubtful / not answered. All contributions received will be fully acknowledged. Please check this page again for updates, which will also be announced in forums / site. Discuss these answers and other issues at our [forums](#).

**Last updated 1 December, 2005 10:40 PM IST** ( explanation to question 21 added)

Q1. Which of the following signs is **not** suggestive of a cervical spinal cord injury ?

- A) Flaccidity.
- B) Increased rectal sphincter tone.
- C) Diaphragmatic breathing.
- D) Priapism.

**Answer 3**, As Diaphragmatic breathing is reduced significantly in cervical spinal cord injury.

In lesions of C1, C2 vital capacity is only 5-10% of normal, and cough is absent.  
If C3 to C6 are injured vital capacity is 20 % of normal and weak cough is present.  
Diaphragm is supplied by cervical spinal roots C3,4,5.

### Clinical features of **cervical spine injury**

Features of <b>spinal shock</b>	Features of <b>Neurogenic Shock</b>
Flaccidity	<b>Hypotension</b>
Areflexia	Paradoxical <b>bradycardia</b>
Loss of anal sphincter tone	Flushed, dry, and warm peripheral skin :
Fecal incontinence	Vasodilation
<b>Priapism</b>	Autonomic dysfunction
Loss of bulbocavernosus reflex	Ileus
	Urinary retention
	Poikilothermia

Q2) With regard to Ketamine, all of the following are true except

- A) It is a direct myocardial depressant.
- B) Emergence phenomena are more likely if anticholinergic premedication is used.
- C) It may induce cardiac dysarrhythmias in patients receiving tricyclic antidepressants.
- D) Has no effect on intracranial pressure

**Answer 4, raises all iot, icranial, intra anta abdominal, (choice 1, 3 is also incorrect, but we prefer 4 also). Page number 78 Ajay Yadav.**

Q3) Placement of a double lumen tube for lung surgery is best confirmed by:

- a) EtCo2 ?
- b) Airway pressure measurement
- c) Clinically by auscultation
- d) Bronchoscopy ?

Answer 4

Reference FRCA website (<http://www.frca.co.uk/article.aspx?articleid=246>) See summary below.

Tube position can be confirmed clinically by breath sounds heard on one side only but Fiberoptic bronchoscopy reveals the carina and the top edge of the blue bronchial cuff should be just visible in the intended main stem bronchus. When a right-sided tube is used, the fibrescope should be used to visualise the orifice of the right upper lobe bronchus.

Direct visualisation would obviously be a better choice than clinical sounds, and the question asks for BEST.. (Authors opinion)

But Ajay yaday 31, 46.

4. The most common cause of hypoxia during one lung ventilation is:
- a) Malposition of the double lumen tube.
  - b) Increased shunt fraction
  - c) Collapse of one lung
  - d) Soiling of lung by secretions.

**Answer 2?**

5. A head injured patient, who opens eyes to painful stimulus, is confused and localizes to pain. What is his Glasgow coma Score?
- a) 7
  - b) 9
  - c) 11
  - d) 13

Answer 3. Eye opening with pain 2, confused mentl status 4, localization of pain 5. Therefore  $2+2+5 = 11$

6. The outcome following resuscitation of a cardiac arrest is worsened if during resuscitation patient is given:
- a) Ringer's Lactate
  - b) Colloids
  - c) 5% Dextrose
  - d) Whole blood transfusion

Answer 3,

5 % dextrose Ajay Yadav 188. (Glucose and calcium can be detrimental to injured neurons)

7. A 5 year old child is suffering from cyanotic heart disease. He is planned for corrective surgery. The induction agent of the choice would be:
- a) Thiopentone
  - b) Ketamine
  - c) Halothane
  - d) Midazolam

Answer 2, Ajay Yaday 130. Ketamine is induction agent, relaxant of choice is pancrurium, reason we need system hypertension in cyanotic heart disease and same for pancrurium,

8. A 30-year-old woman with coarctation of aorta is admitted to the labour room for elective caesarean section. Which of the following is the anaesthesia technique of choice:
- a) Spinal anaesthesia
  - b) Epidural anaesthesia
  - c) General anaesthesia
  - d) Local anaesthesia with nerve blocks.

Answer 2

9. Which of the following is not a cardiovascular monitoring technique:
- a) Transesophageal echocardiography
  - b) Central venous pressure monitoring
  - c) Pulmonary artery catheterization
  - d) Capnography

Answer 4 Ajay Yadav page 46, Capnography is a respiratory monitoring technique.

10. A 6 month old child is suffering from patent ductus arteriosus (PDA) with congestive cardiac failure. Ligation of ductus arteriosus was decided for surgical management. The most appropriate inhalational anaesthetic agent of choice with minimal haemodynamic alteration for induction of anaesthesia is:
- a) Sevoflurane
  - b) Isoflurane
  - c) Enflurane
  - d) Halothane

Answer1 / PDA is a left to right. So we need systemic hypotension and pulmonary hypertension during surgery.

In children choice is sevoflurane as it causes the same, and used as a preferred agent. Adults it would have been desflurane.

Isoflurane is agent of choice in all cardiac surgery except cardiac ischaemia. Page 62, 63, 130, 158 Ajay Yadav, Anaesthesia

11. A 45 year old woman, presenting with the history of diplopia and dysphagia worsening as the day progresses, can be diagnosed to have:
- a) Thyrotoxicosis
  - b) Myasthenia gravis
  - c) Muscular dystrophy
  - d) Brain tumor

Answer 2

12. The most sensitive and practical technique for detection of myocardial ischemia in the **perioperative** period is:
- a) Magnetic Resonance Spectroscopy
  - b) Radio labeled lactate determination
  - c) Direct measurement of end diastolic pressure

d) Regional wall motion abnormality detected with the help of 2 D transoesophageal echocardiography

Answer 4, AIIMS people have a liking for perioperative investigations!

Choice 1) Magnetic Resonance Spectroscopy is not the answer as it is impractical to do MRI while operating as MRI takes time, and MRI machine is bulky and would not fit most operation theatres..

Correct answer is Regional wall motion abnormality

The abnormalities in wall motion associated with ischemia are characterized by diminished or absent inward endocardial motion and by impaired systolic myocardial thickening. TEE is highly sensitive for the detection of acute ischemia and is therefore used extensively for real-time monitoring of regional wall motion as well as global left ventricular function.

As an example, the continuous high-quality imaging of the left ventricle afforded by TEE **during surgical procedures** makes it ideally suited for the early detection of ischemia

Reference : Beaupre, PN, Kremer, PF, Cahalan, MK, et al. Intraoperative detection of changes in left ventricular segmental wall motion by transesophageal two-dimensional echocardiography. Am Heart J 1984; 107:1021.

13. While introducing the Swan-ganz catheter, its placement in the pulmonary artery can be identified by the following pressure tracing:

- a) Diastolic pressure is lower in PA than in RV
- b) Diastolic pressure is higher in PA than in RV.
- c) PA pressure tracing has aortic notch from closure of pulmonary valve.
- d) RV pressure tracing for plateau and sharp drop in early diastole.

Answer 3?

14. A 63 year old man presents with a triad of angina, syncope and congestive heart failure. Which of the following valvular heart lesion can be suspected?

- a) Mitral stenosis
- b) Tricuspid regurgitation
- c) Aortic stenosis
- d) Aortic regurgitation.

Answer 3

15. In the treatment of severe bradycardia, all of the following can be the best modality of treatment except:

- a) Atropine
- b) Pacing
- c) Isoproterenol
- d) Diltiazem

Answer 4, page number 184 Ajay Yadav

16. All of the following statements about the splenic artery are true except that it:

- a) Has a tortuous course
- b) Is a branch of the coeliac trunk
- c) Has branches that anastomose freely within the spleen
- d) Supplies the greater curvature of stomach.

Answer 3

17. All of the following statements about the vagus nerve are true except that it:

- a) Supplies heart and lung
- b) Carries postganglionic parasympathetic fibers.
- c) Innervates right two third of transverse colon.
- d) Stimulates peristalsis & relaxes sphincters.

Answer 2

18. All of the following structures pass through the superior aperture of the thorax except:

- a) Right recurrent laryngeal nerve
- b) Left common carotid artery
- c) Left sympathetic trunk
- d) Thoracic duct

Answer 1?

19. The vertebral artery traverses all of the following except:

- a) Foramen magnum
- b) Subarachnoid space
- c) Intervertebral foramen
- d) Foramen transversarium

Answer 3?, passes through upper six vertebrae's transverse foramen,

20. Which of the following among axillary lymph nodes is a terminal group ?

- a) Pectoral
- b) Central
- c) Lateral
- d) Apical

Answer 4

21. The distribution of random blood glucose measurements from 50 first year medical students was found to have a mean of 3.0 mmol/litre with a standard deviation of 3.0 mmol/litre. Which of the following is a correct statement about the shape of the distribution of random blood glucose in these first year medical students?

- a) Since both mean and standard deviation are equal, it should be a symmetric distribution
- b) The distribution is likely to be positively skewed
- c) The distribution is likely to be negatively skewed.
- d) Nothing can be said conclusively.

Answer 2? (to be confirmed, but we support 2 as the answer)

Regarding skew deviation of blood glucose curve

Option 4 is essentially an answer of exclusion.

Option 1 and 2 are easily ruled out.

But option 3, positive skew deviation cannot be ruled out.

Coming to think of it, it may be then best answer.

Only a positive skewed curve can cause a SD of 3 mmol/lit when the mean is 3 mmol/lit..

The SD is so high because of few hyperglycemics have very large values and have stretched the SD to 3 mmol without having much effect on the mean. SD tells us the dispersion of values but not the side on which the values are dispersed.

Explanation with thanks to : Raman Gaikwad, MIMSR Medical college Latur.

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22. In an investigation to study the effect of smoking on renal cell cancer, it is observed that 30 of the 50 patients were smokers as compared to 10 out of 50 control subjects. The odd ratio of renal cancer associated with smoking will be:

- a) 3.0
- b) 0.33
- c) 6.0
- d) 0.16

Answer 3

23. A chest physician observed that the distribution of forced expiratory volume (FEV) in 300 smokers had a median value of 2.5 litres with the first and third quartiles being 1.5 and 4.5 litres respectively. Based on this data how many persons in the sample are expected to have a FEV between 1.5 to 4.5 litres ?

- a) 75
- b) 150
- c) 225
- d) 300

Answer 2

24. If the distribution of intra-ocular pressure (IOP) seen in 100 glaucoma patients has an average 30 mm with a SD of 10 what is the lower limit to the average IOP that can be expected 95% of times?

- a) 28
- b) 26
- c) 32
- d) 25

Answer 1

25. A diagnostic test for a particular disease has a sensitivity of 0.90 and specificity of .90. A single test is applied to each subject in the population in which the diseased population is 10%. What is the probability that a person positive to this test, has the disease?

- a) 90%
- b) 81%
- c) 50%
- d) 91%

Answer 3

26. Henoch-Schonlein purpura is characterized by the depositin of the following immunoglobulin around the vessels:

- a) Ig M
- b) Ig G
- c) Ig A
- d) Ig E

Answer 3

27. Angiod streaks in the eyes are seen in :

- a) Pseudoxanthoma elasticum
- b) Tendinous xanthoma
- c) Xanthelasma
- d) Eruptive xanthoma

Answer 1

28. Exclamation mark hair is a feature of:

- a) Telogen effluvium
- b) Androgenetic alopecia
- c) Alopecia areata
- d) Alpecia mucinosa

Answer 3

29. Pautrier's micro-abscess is a histological feature of:

- a) Sarcoidosis
- b) Tuberculosis
- c) Mycosis fungoides
- d) Pityriasis Lichenoides Chronica

Answer 3

30. Adenoma sebaceum is a feature of:

- a) Neurofibromatosis
- b) Tuberous sclerosis
- c) Xanthomatosis
- d) Incontinentia pigmenti

Answer 2

31. A 25 year old male presented with pigmentation of nose and pinna. After voiding, his urine becomes dark. His spine is most likely to show:

- a) Atlantoaxial subluxation
- b) Spondyloptosis
- c) Basilar invagination
- d) Calcification of disc

Answer 4

32. A one year old child presented with multiple fractures seen in various stages of healing. The most probable diagnosis in this case is:

- a) Scurvy
- b) Rickets
- c) Battered baby syndrome
- d) Sickle cell disease

Answer 3

33. A 50 year old man presented with multiple pathological fractures. His serum calcium was 11.5mg/dl and phosphate was 2.5 mg/dl. Alkaline phosphatase was **940 I.U./dl**. The most probable diagnosis is:

- a) Osteoporosis
- b) Osteomalacia
- c) Multiple Myeloma
- d) Hyperparathyroidism

Answer 4

34. Pain and tenderness over the lateral condyle of humerus with a painful dorsal flexion of the wrist is indicative of:

- a) Golfer's Elbow
- b) Tennis Elbow
- c) Pitcher's Elbow
- d) Cricket Elbow

Answer 2

35. The pain around the hip with flexion adduction & internal rotation of lower limb in a young adult after a road traffic accident is suggestive of:

- a) Intracapsular fracture of the femoral neck.
- b) Extra capsular fracture of the femoral neck.
- c) Posterior dislocation of hip.
- d) Anterior dislocation of hip

Answer. 3

36. The inheritance pattern of familial Retinoblastomas is:

- a) Autosomal recessive
- b) Autosomal dominant
- c) X-linked dominant
- d) X-linked recessive

Answer 2

37. The lymphocytic and histiocytic variant of Reed-Sternberg cell is seen in:

- a) Follicular center lymphoma
- b) Lymphocyte depleted Hodgkin's disease
- c) Nodular sclerosis Hodgkin's disease
- d) Lymphocyte predominant Hodgkin's disease

Answer. 4

38. A metastatic carcinoma in the brain of an adult, most often comes from a primary in the :

- a) Stomach
- b) Ovary
- c) Oral cavity
- d) Lung

Answer 4

39. Features, which are evaluated for histological grading of breast carcinoma include all of the following except:

- a) Tumour necrosis
- b) Mitotic count
- c) Tubule formation
- d) Nuclear pleomorphism

Answer 1

40. Internucleosomal cleavage of DNA is characteristic of:

- a) Reversible cell injury
- b) Irreversible cell injury
- c) Necrosis
- d) Apoptosis

Answer 4

41. Which of the following is not a common site for metastatic calcification?

- a) Gastric mucosa
- b) Kidney
- c) Parathyroid
- d) Lung

Answer 3

42. On electron microscopy, amyloid characteristically exhibits:

- a) B-pleated sheet
- b) Hyaline globules
- c) 7.5-10nm fibrils
- d) 20-25 nm fibrils

Answer 3

43. Which of the following is not compatible with a diagnosis of juvenile myelomonocytic leukemia?

- a) Peripheral blood monocytosis, more than  $1 \times 10^9/L$
- b) Increased of bcr/abl fusion gene
- c) Presence of bcr/abl fusion gene.
- d) GM-CSF hypersensitivity of myeloid progenitors in vitro.

Answer 3

44. A 48 year old woman was admitted with a history of weakness for two months. On examination, cervical lymph nodes were found enlarged and spleen was palpable 2 cm below the costal margin. Her hemoglobin was 10.5g/dl, platelet count  $237 \times 10^9/L$ , which included 80% mature lymphoid cells with coarse clumped chromatin. Bone marrow revealed a nodular lymphoid infiltrate. The peripheral blood lymphoid cells were positive for CD19, CD5, CD20 and CD23 and were negative for CD79B and FMC-7.

What is the most likely diagnosis?

- a) T-cell rich B-cell lymphoma with leukemic spill over in blood.
- b) Chronic lymphocytic leukemia
- c) Mantle cell lymphoma
- d) A definite diagnosis cannot be made in this patient without lymph node biopsy.

Answer 2

45. All of the following are examples of a round cell tumor, except:

- a) Neuroblastoma
- b) Ewing's sarcoma
- c) Non Hodgkin,s Lymphoma
- d) Osteosarcoma

Answer 4

46. Which of the following surface glycoproteins is most often expressed in human hematopoietic stem cell?

- a) CD22
- b) CD40
- c) CD15`
- d) CD34

Answer 4

47. The tumor suppressor gene p53 induces cell cycle arrest at:

- a) G2-M phase
- b) S-G2 phase
- c) G1-phase
- d) G0 phase

Answer. 3

48. During which phase of the cell cycle the cellular content of DNA is doubled?

- a) Mitotic phase
- b) G1 phase
- c) G2 phase
- d) S phase

Answer 4

49. Acute diffuse proliferative glomerulonephritis will have all of the following features, except:

- a) Microscopic haematuria
- b) Raised blood urea level
- c) Raised serum creatinine level
- d) Hypoalbuminaemia

Answer 4

50. All of the following are mediators of acute inflammation except:

- a) Angiotensin
- b) Prostaglandin E2
- c) Kallikrein
- d) C3a

Answer 1

51. A 50 year old male feels uncomfortable in using lift, being in crowded places and traveling. The most appropriate line of treatment is:

- a) Counselling
- b) Relaxation therapy
- c) Exposure
- d) Covert sensitization

Answer 3 (exposure & response prevention is TOC)

52. A 9 year old child disturbs other people is destructive, interferes when two people are talking, does not follow instructions and cannot wait for his turn while playing a game. He is likely to be suffering from:

- a) Emotional disorders
- b) Behavioural problems
- c) No disorders
- d) Attention deficit hyperactivity disorder

Answer 4

53. Which of following statements differentiates the obsessional ideal from delusions ?

- a) The idea is not an conventional belief.
- b) The idea is held inspite of contrary evidence
- c) The idea is regarded as senseless by patient.
- d) The idea is held on inadequate ground

Answer. 3

54. Dementia of Alzheimer's type is not associated with one of the following:

- a) Depressive symptoms
- b) Delusions
- c) Apraxia and aphasia
- d) Cerebral infarcts

Answer 4

55. A person who laughs one minute and cries the next without any clear stimulus is said to have:

- a) Incongruent affect
- b) Euphoria
- c) Labile affect
- d) Split personality

Answer 3

56. The most common facial abnormality seen in Gardner's syndrome is:

- a) Ectodermal dysplasia
- b) Odontomes
- c) Multiple osteomas`
- d) Dental cysts.

Answer 3

57. The most common retrobulbar orbital mass in adults is:

- a) Neurofibroma
- b) Meningioma
- c) Cavernous haemangioma
- d) Schwannoma

Answer 3

58. The typical movement of mitral valve calcification is:

- a) Upwards and downwards
- b) Counterclock wise
- c) Side to side
- d) Circular

Answer ?

59. The most common cause of peripheral limb, ischaemia in India is:

- a) Trauma
- b) Atherosclerosis
- c) Burger's disease
- d) Takayasu's disease

Answer 3

60. Which of the following is the most common location of intracranial neurocysticercosis?

- a) Brain parenchyma
- b) Subarachnoid space
- c) Spinal cord
- d) Orbit

Answer 1

61. The chemotherapeutic agent, most commonly administered by continuous infusion is:

- a) Ara-C
- b) F-FU
- c) Cisplatin
- d) Etoposide

Answer 1 (Cytarabine)

62. Which of the following carcinoma most frequently metastasizes to brain?

- a) Small cell carcinoma lung
- b) Prostate cancer
- c) Rectal carcinoma
- d) Endometrial cancer

Answer 1

63. For which malignancy, Intensity Modulated Radiotherapy (IMRT) is the most suitable?

- a) Lung
- b) Prostate
- c) Leukemias
- d) Stomach

Answer 2 CMTD Page 1604 2003 edition. (remember IMRT is also used for lung)

Intensity-modulated radiation therapy (IMRT) is an advanced mode of high-precision radiotherapy that utilizes computer-controlled x-ray accelerators to deliver precise radiation doses to a malignant tumor or specific areas within the tumor. Currently, IMRT is being used to treat cancers of the prostate, head and neck, breast, thyroid and lung, as well as in gynecologic, liver and brain tumors and lymphomas and sarcomas. IMRT is also beneficial for treating pediatric malignancies.

64. In treatment of Papillary Carcinoma thyroid, Radioiodine destroys the neoplastic cells predominantly by:

- a) X rays
- b) B rays
- c) Y rays
- d) alpha particles

Answer 2 X rays traces, beta particle for destructive action, KD Tripathi 5th edition page 233

65. Which of the following chemotherapeutic drugs has selective action on hypoxic tumor cells?

- a) Mitromycin C
- b) Cisplatin
- c) Doxorubicin
- d) 5 Flurouracil

Answer 1 (All?)

66. The paraneoplastic syndrome associated with Hodgkin's disease is:

- a) Nephrotic syndrome
- b) Retinopathy
- c) Cerebellar degenerative disease
- d) Acanthosis nigricans

Answer 3, Hodgkin's disease causes two paraneoplastic syndromes, One is Cerebellar degenerative disease , other is guillain barre syndrome .

67. Platelets can be stored at:

- a) 20-24 Degree C for 5 days
- b) 20-24 Degree C for 8 days
- c) 4-8 Degree for 5 days
- d) 4-8 Degree C for 8 days

Answer 1 Ajay yaday page 15. This is why platelet transfusion has increased risk of infection.

68. Which of following radioactive isotopes is not used for brachytherapy.

- a) Iodine-125
- b) Iodine-131
- c) Cobalt-60
- d) Iridium-192

Answer 1 (used for diagnosis)

69. All of the following soft tissue sarcomas have a propensity for lymphatic spread except:

- a) Neurofibrosarcoma
- b) Synovial sarcoma
- c) Rhabdomyosarcoma
- d) Epitheloid sarcoma

Answer 1

70. The expression of the following oncogene is associated with a high incidence of Medulary carcinoma of thyroid:

- a) P 53
- b) Her 2 neu
- c) Ret proto Oncogene
- d) Rb gene

Answer 3

71. A 30 year old patient with history of recurrent headache was sent for fundus evaluation. He was found to be having generalized arterial attenuation with multiple cotton wool spots and flame shaped haemorrhages in both eyes. The most likely cause is:

- a) Diabetic retinopathy
- b) Hypertensive retinopathy
- c) Central retinal artery occlusion
- d) Temporal arteritis

Answer 2

72. A 55 year old female comes to the eye casualty with history of severe eye pain, redness and diminution of vision. On examination the visual acuity is 6/60, there is circumcorneal congestion, corneal oedema and a shallow anterior chamber. Which of the following is the best drug of choice?

- a) Atropine ointment
- b) I.V. Mannitol
- c) Ciprofloxacin eye drops
- d) Betamethasone eye drops

Answer 2

73. A 55 year old patient complains of decreased distance vision. However, now he does not require his near glasses for near work. The most likely cause is:

- a) Posterior subcapsular cataract
- b) Zonular cataract
- c) Nuclear sclerosis
- d) Anterior subcapsular cataract

Answer 3

74. Which of the following drugs is contraindicated in a patient with history of sulfa allergy presenting with an acute attack of angle closure glaucoma?

- a) Glycerol
- b) Acetazolamide
- c) Mannitol
- d) Latanoprost

Answer 2

75. A patient has a right homonymous hemianopia with saccadic pursuit movements and defective optokinetic nystagmus. The lesion is most likely to be in the:

- a) Frontal lobe
- b) Occipital lobe
- c) Parietal lobe
- d) Temporal lobe

Answer 3 (1? saccadic pursuit movements and defective optokinetic nystagmus)

76. A young tall, thin male with archnodactyly has ectopia lentis in both eyes. The most likely diagnosis is:

- a) Marfan's Syndrome
- b) Marchesani's Syndrome
- c) Homocystinuria
- d) Ehler's Danloss syndrome

Answer 1

77. The most common systemic association of scleritis is:

- a) Ehlers-Danlos syndrome
- b) Disseminated systemic sclerosis
- c) Rheumatoid arthritis
- d) Giant cell arteritis

Answer 3

78. The following is not a method of isolation of Chlamydia from clinical specimens.

- a) Yolk sac inoculation
- b) Enzyme immunoassay
- c) Tissue culture using irradiated McCoy cells
- d) Tissue culture using irradiated BHK cells.

Answer 2

79. According to WHO, blindness is defined as a visual acuity of the better eye, less than:

- a) 6/60
- b) 5/60
- c) 4/60
- d) 3/60 Answer

Answer 4

80. A female presented with loss of vision in both eyes and on examination has normal papillary responses and normal fundus. Her visually evoked response (VER) examination shows extinguished responses. The most likely diagnosis is:

- a) Hysteria
- b) Cortical blindness
- c) Optic Neuritis
- d) Retinal Detachment

Answer 2 antons syndrom

81. All the following can be used to predict severe acute pancreatitis except

- a) Glasgow score 3
- b) APACHE II score 9
- c) CT severity score 6
- d) C-reactive protein < 100

Answer 4

82. Regarding bile duct injuries following Cholecystectomy which of the following statements is false:
- a) The incidence following open cholecystectomy which is in the range of 0.2-0.3%
  - b) The incidence rate following Laparoscopic Cholecystectomy is three times higher than the rates following open cholecystectomy
  - c) Untreated cases may develop secondary biliary cirrhosis
  - d) Routine use of open technique of laparoscopic port insertion has resulted in a decline in the incidence of post laparoscopic cholecystectomy bile duct injuries

Answer 4

83. All of the following extraintestinal manifestations of ulcerative colitis respond to colectomy except:
- a) Primary sclerosing cholangitis
  - b) Pyoderma gangrenosum
  - c) Episcleritis
  - d) Peripheral arthralgia

Answer 1

If you feel an answer is wrong / want to contribute an explanation please email [aippg@aippg.com](mailto:aippg@aippg.com) or use this [form here\(click here\)](#)

84. Solitary hypoechoic lesion of the liver without septa or debris is most likely to be:
- a) Hydatid cyst
  - b) Caroli's disease
  - c) Liver abscess
  - d) Simple cyst ANSWER

Answer 4

85. All of the following are features of Zollinger Ellison syndrome except:
- a) Intractable peptic ulcers
  - b) Severe diarrhoea
  - c) Beta cell tumours of the pancreas
  - d) Very high acid output

Answer 3

86. The posterior urethra is best visualized by:
- a) Static cystogram
  - b) Retrograde urethrogram
  - c) Voiding cystogram
  - d) CT cystogram

Answer 3

87. Which of the following is the most effective intravesical therapy for superficial bladder cancer?
- a) Mitomycin

- b) Adriamycin
- c) Thiotepa
- d) BCG

Answer 4

88. The narrowest part of the ureter is at the :

- a) Uretero-pelvic junction
- b) Iliac vessel crossing
- c) Pelvic ureter
- d) Uretero-vesical junction

Answer 4

89. The most common histological variant of renal cell carcinoma is:

- a) Clear cell type
- b) Chromophote type
- c) papillary type
- d) Tubular type

Answer 1

90. In which of the following tumors alpha fetoprotein is elevated?

- a) Choriocarcinoma
- b) Neuroblastoma
- c) Hepatocellular carcinoma
- d) Seminoma

Answer 3

91. The diagnosis of congenital megacolon is confirmed by:

- a) Clinical features
- b) Barium enema
- c) Rectal biops
- d) Recto-sigmoidoscopy

Answer 3

92. All of the following are the markers for malignant germ cell tumors of ovary except:

- a) CA-125
- b) Alphafetoprotein
- c) B-HCG
- d) LDH

Answer 2

93. All of the following are indications for surgery in gastric lymphoma except:

- a) Bleeding
- b) Perforation
- c) Residual disease following chemotherapy

d) Intractable pain

Answer 4

94. Programmed cell death is known as:

- a) Cytolysis
- b) Apoptosis
- c) Necrosis
- d) Proptosis

Answer 2

95. The most definitive method of diagnosing pulmonary embolism is:

- a) Pulmonary arteriography
- b) Radiotope perfusion pulmonary scintigraphy
- c) EKG
- d) Venography

Answer 1

If you feel an answer is wrong / want to contribute an explanation please email [aippg@aippg.com](mailto:aippg@aippg.com) or use this [form here\(click here\)](#)

96. Which is the following statements is true regarding fat embolism:

- a) Most patients with major trauma involving long bones have urinary fat globules.
- b) All patients with urinary fat globules develop fat embolism.
- c) Peak incidence of respiratory insufficiency for pulmonary fat embolism is around day 7 after injury.
- d) Heparin as an anticoagulant decrease mortality and morbidity in fat embolism syndrome.

Answer 1

97. Which of the following statement is true regarding subclavian steal syndrome:

- a) Reversal of blood flow in the ipsilateral vertebral artery.
- b) Reversal of blood flow in the contralateral carotid artery.
- c) Reversal of blood flow in the contralateral vertebral artery.
- d) Bilateral reversal of blood in the vertebral arteries.

Answer 1

98. In patients with breast cancer, chest wall involvement means involvement of any one of the following structures except:

- a) Serratus Anterior
- b) Pectoralis Major
- c) Intercostal Muscles
- d) Ribs

Answer 2

99. A 45 year old male presents with 4x4 cm mobile right solitary thyroid nodule of 5 months duration. The patient is euthyroid. The following statements about his management are true except:

- a) Cold nodule on thyroid scan is diagnostic of malignancy.
- b) FNAC is the investigation of choice
- c) The patient should undergo hemithyroidectomy if FNAC report is inconclusive
- d) Indirect laryngoscopy should be done in the preoperative period to assess mobility of vocal cords.

Answer 1, only 20 % cold nodule malignant.

100. Xeroderma Pigmentosum is caused due to a group of closely related abnormalities in:

- a) The patient should be prescribed antibiotics and asked to come after a week
- b) Colour flow Doppler will be very useful in diagnosis
- c) Scrotal exploration should be done without delay if Doppler is not available
- d) If left testis is not viable on exploration, patient should undergo left Orchiectomy and right orchidopexy.

Answer 1

101. Xeroderma Pigmentosum is caused due to a group of closely related abnormalities in:

- a) Mismatch repair
- b) Base excision repair
- c) Nucleotide excision repair
- d) SOS repair

Answer 3

102. To synthesize insulin on a large scale basis, the most suitable starting material obtained from the beta cells of the pancreas is:

- a) Genomic DNA
- b) Total cellular RNA
- c) cDNA of insulin
- d) mRNA of insulin

Ans 3

103. By which of the following anticoagulants used in estimating blood glucose, glycolysis is prevented?

- a) EDTA
- b) Heparin
- c) Sodium fluoride Answer)
- d) Sodium citrate

Answer 3

104. Apart from occurring in nucleic acids, pyrimidines are also found in:

- a) Theophylline
- b) Theobromine
- c) Flavin mononucleotide

d) Thiamin

Answer 4

105. Vitamin A is stored mainly as retinal esters in:

- a) Kidney
- b) Muscle
- c) Liver
- d) Retina

Answer 3

106. Which of the following is a component of the visual pigment rhodopsin:

- a) B-Carotene
- b) Retinal
- c) Retinol
- d) Retinoic acid

Answer 2

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107. Idiopathic nyctalopic is due to a hereditary:

- a) Absence of rod function
- b) Absence of cone function
- c) Absence of rod and cone function
- d) Decrease of cone function

Answer 1

108. The following disease have defect in DNA repair mechanism except for:

- a) Xeroderma Pigmentosa
- b) Fanconi Syndrome
- c) Huntington's disease
- d) Hereditary non polyposis colon cancer

Answer 3

109. The most potent stimulator of naïve T cells is:

- a) B Cell
- b) Mature dendritic cells
- c) Epithelial cells
- d) Macrophages

Answer 2

110. Substitution of which one of the following amino acids in place of alanine would increase the absorbance of protein at 280 nm?

- a) Leucine

- b) Arginine
- c) Tryptophan
- d) Protein

Answer 3

111. Which of the following situation will lead to increased viscosity of blood?

- a) Fasting state
- b) Hypoglycemia
- c) Multiple myeloma
- d) Amyloidogenesis

Answer 3

112. If cellular proteins do not fold into a specific conformation their functions are affected. Certain disorders arise, if specific proteins are misfolded. Which of the following disorders arises due to conformational isomerization?

- a) Familial fatal insomnia
- b) Hepatitis delta
- c) Pernicious anemia
- d) Lesch-Nyhan Syndrome

Answer 1

113. Side effects of a drug arise due to the interactions of the drug of molecules other than the target. These effects of a drugs can be minimized by its high:

- a) Specificity
- b) Affinity
- c) Solubility
- d) Hydrophobicity

Answer 1

114. Secretory proteins are synthesized in:

- a) Cytoplasm
- b) Endoplasmic Reticulum
- c) First in cytoplasm and then in Endoplasmic
- d) First in Endoplasmic Reticulum and then in cytoplasm

Answer 4

115. Tetracycline inhibits protein synthesis by:

- a) Inhibiting initiation and causing misreading of mRNA
- b) Binding to 30 S subunit and inhibits binding of aminoacyl tRNA
- c) Inhibiting peptidyl transferease activity
- d) Inhibiting translocation

Answer 2

116. At physiological pH, the carboxy-terminal of a peptide is:

- a) Positively charged
- b) Negatively charged
- c) Neutral
- d) Infinitely charged

Answer 2

117. Which of the following drugs has covalent interaction with its target?

- a) Aspirin
- b) Penicillin
- c) Nitric oxide
- d) Bosentan

Answer 1

118. Which of the following property of drug will enable it to be used in low concentrations?

- a) High affinity ans
- b) High specificity
- c) Low specificity
- d) High stability

Answer 1

119. Several studies have shown that 85% of cases of lung Cancer are due to cigarette smoking. It is a measure of:

- a) Incidence rate
- b) Relative risk
- c) Attributable risk
- d) Absolute risk

Answer 3

120. It is probable that physician have a higher index of suspicion for tuberculosis in children without BCG scar than those with BCG scar. If this is so and an association is found between Tuberculosis and not having BCG scar, the association may be due to:

- a) Selection bias
- b) Interviewer bias ans
- c) Surveillance bias
- d) Non-response bias

Answer 2

121. When an intervention is applied to community to evaluate its usefulness, it is termed as a trial for:

- a) Efficacy
- b) Effectiveness
- c) Efficiency
- d) Effect modification

Answer 2

122. The drug of choice for treating cholera in pregnant women is:

- a) Tetracycline
- b) Doxycycline
- c) Furazolidone
- d) Cotrimoxazole

Answer 3

123. The most common cause of blindness in India is:

- a) Cataract
- b) Trachoma
- c) Refractive errors
- d) Vitamin A deficiency

Answer 1

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124. In a study 400 smokers and 600 non-smokers were followed up over a period of 10 years to find out the incidence of hypertension. The following table summarizes the data at the end of the study:

Hypertension	Yes	No	Total
Smoking Yes	120	280	400
No	30	570	600
Total	150	850	1000

The risk ratio in this study is:

- a) 0.06
- b) 0.60
- c) 6.0
- d) 60.0

Answer 3

125. In the WHO recommended EPI Cluster sampling for assessing primary immunization coverage, the age group of children to be surveyed is:

- a) 0-12 months
- b) 6-12 months
- c) 9-12 months
- d) 12-23 months

Answer 4

126. Of the different epidemiological study designs available to test the association between risk factor and disease, the best design is of :

- a) Case-control study.
- b) Ecological study.

- c) Cohort study.
- d) Cross-sectional study.

Answer 3

127. If the objective of the investigator is to assess the incidence of tuberculosis infection in a community, the most appropriate methodology would be to :

- a) Identify all individuals with positive tuberculin test.
- b) Perform sputum examination of chest symptomatics.
- c) Identify new converters to Tuberculin test.
- d) Screen all under-five children with Tuberculin test.

Answer 3

128. All of the following statements are true about the childhood mortality rates in India except :

- a) Almost 3/5th of infant mortality rate (IMR) occurs in neonatal period.
- b) Almost 3/4th of the under-five mortality occurs in the first year of life.
- c) About one in ten children die before they reach the age of five years.
- d) Neonatal mortality is higher among female children as compared to males.

Answer 4

129. Which of the following statements is true about the epidemiological determinants of measles ?

- a) Measles virus survives outside the human body for 5 days
- b) Carriers are important sources of infection.
- c) Secondary attack rate is less than that of rubella.
- d) Incidence of measles is more in males than females.

Answer 4

130. Study the following table carefully and answer the question :

Disease	Present	Absent
Test result +ve	40	225
-ve	10	225

- a) 45
- b) 20
- c) 80
- d) 50

Answer 3

131. The usual incubation period for pertussis is :

- a) 7-14 days
- b) 305 days
- c) 21-25 days
- d) less than 3 days

Answer 1

132. Risk of the damage of fetus by maternal rubella is maximum if mother gets infected in:

- a) 6-12 weeks of pregnancy
- b) 20-24 weeks of pregnancy
- c) 24-28 weeks of pregnancy
- d) 32-36 weeks of pregnancy

Answer 1

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133. Deficit in weight for height in a 3 year old child indicates :

- a) Acute malnutrition.
- b) Chronic malnutrition.
- c) Concomittant acute and chronic malnutrition
- d) Under weight.

Answer 1

134. Under Nationa Programme for Prevention of Nutritional Blindness, a child in the age group of 6-11 months is given a mega dose of vitamin A equal to :

- a) 50,000 IU
- b) 1 Lakh IU
- c) 1.5 Lakh IU
- d) 2 Lakh IU

Answer 2

135. According to a joint study "Healthcare In India : The Road Ahead" done by CII and MekinSey and Company in 2002, India's execting bed population rates is :

- a) 2 : 1000
- b) 1.5 : 1000
- c) 9 : 1000
- d) 2.5 : 1000

Answer 3

136. 'Vagitus uterinus' is :

- a) An infection of vagina
- b) An infection of uterus
- c) A cry of unborn baby from uterus.
- d) Infection of both vagina and uterus

Answer 3

'Vagitus uterinus' is : Crying of the fetus while still within the uterus, occurring at times when the membranes have been ruptured and air has entered the uterine cavity.

137. Gunshot residue on hands can be detected by :

- a) Phenolphthalein test
- b) Dermal nitrate test.
- c) Benzidine test
- d) Hydrogen activation analysis

Answer 2

138. 'La facies sympathique' is a condition seen in cases of :

- a) Hanging
- b) Strangulation
- c) Myocardial insufficiency
- d) Railway accidents

Answer 2, This is a french word , literal meaning of this is "The facial sympathetic nerve"

139. A dead body is found to have marks like branching of a tree on front of chest. The most likely cause of death could be due to :

- a) Fire-arm
- b) Lightning injury
- c) Injuries due to bomb blast
- d) Road traffic accident

Answer 2

140. A person has been brought in casualty with history of road accident. He had lost consciousness transiently and then gained consciousness but again became unconscious. Most likely, he is having brain hemorrhage of :

- a) Intracerebral
- b) Sub arachnoid
- c) Sub dural
- d) Extra dural

Answer 4

141. Pulmonary function abnormalities in interstitial lung disease include all of the following except :

- a) Reduced vital capacity
- b) Reduced FEV1/FVC ratio
- c) Reduced diffusion capacity
- d) Reduced total lung capacity

Answer 2

142. Which of the following antihypertensives is not safe in pregnancy ?

- a) Clonidine
- b) ACE inhibitors
- c) a-methyldopa
- d) Amlodipine

Answer 2

143. Which of the following drugs is known to cause granuloma in the liver ?

- a) Allopurinol
- b) Nifedipine
- c) Tetracycline
- d) Methyl testosterone

Answer 1

Sarcoidosis is the most important noninfectious cause; liver involvement occurs in about 2/3 of patients with sarcoidosis and occasionally is the dominant clinical manifestation. Various drugs can be responsible (eg, quinidine, sulfonamides, allopurinol, phenylbutazone). Hepatic granulomas can also occur in polymyalgia rheumatica and other collagen vascular diseases; in Hodgkin's disease, sometimes without other morphologic evidence of the lymphoma; and in many other systemic conditions.

From : <http://www.merck.com/mrkshared/mmanual/section4/chapter45/45a.jsp> (A free online textbook : The Merck Manual )

144. Following liver transplantation, recurrence of primary disease in the liver most likely occurs in :

- a) Wilson's disease
- b) Autoimmune hepatitis
- c) Alpha-1-antitrypsin deficiency
- d) Primary biliary cirrhosis

Answer 2

145. A patient presented to emergency ward with massive upper gastrointestinal bleed. On examination, he has mild splenomegaly. In the absence of any other information available. Which of the following is the most appropriate therapeutic modality ?

- a) Intravenous propranolol
- b) Intravenous vasopressin
- c) Intravenous pantoprazole
- d) Intravenous somatostatin

Answer 4

146. All of the following are modalities of therapy for hepatocellular carcinoma except :

- a) Radiofrequency ablation
- b) Transarterial catheter embolization
- c) Percutaneous acetic acid
- d) Nd Yag laser ablation

Answer 3

147. Which of the following is the established biological therapy for Crohn's disease ?

- a) Anti TNF  $\alpha$ -antibody

- b) IL-1 antagonist
- c) IL-6 antagonist
- d) IL-8 antagonist

Answer 1

148. Which of the following is the established biological therapy for Crohn's disease ?

- a) Frusemide
- b) Hydrochlorothiazide
- c) Spironolactone
- d) Demeclocycline

Answer 4

149. Nephrotoxicity is a side effect of one of the following immuno-suppressives :

- a) Sirolimus
- b) Tacrolims
- c) Mycophenolate mofetil
- d) Azathioprine

Answer 2 , TACROLIMUS NEPHROTOXICITY Tacrolimus (FK-506) can cause all of the forms of nephrotoxicity that have been associated with cyclosporine, Page 331 Paul G Killenberg, Pierre-Alain Clavien - Medical - 2001 - 443 pages, Harrisons 16th Table number 263-2.

While Sirolimus has little or no nephrotoxicity and causes hyperlipidemia and thrombocytopenia.

150. Minimal change glomerulopathy may be seen in association with all of the following except :

- a) Hepatitis B
- b) HIV
- c) Drug-induced interstitial nephritis
- d) Hodgkin's disease

Answer 1

151. All of the following poisons are dialyzable **except** :

- a) Ethylene glycol
- b) Methanol
- c) Barbituates
- d) Copper sulphate

Answer 4

152. All the following drugs may cause hyperkalemia except :

- a) Cyclosporine
- b) Amphotericin
- c) Heparin
- d) NSAIDs

Answer 2, Usually renal toxic drugs cause hyperkalemia, but Amphotericin is opposite/

153. Acalculous cholecystitis can be seen in all the following conditions except :

- a) Enteric fever
- b) Dengue haemorrhagic fever
- c) Leptospirosis
- d) Malaria

Answer 4

154. A 30 year old lady presents with features of malabsorption and iron deficiency anaemia. Duodenal biopsy shows complete villous atrophy. Which of the following antibodies is likely to be present ?

- a) Antiendomysial antibodies ]
- b) Anti-goblet cell antibodies
- c) Anti-Saccharomyces cerevisiae antibodies
- d) Antineutrophil cytoplasmic antibodies.

Answer 1

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155. A 25 year old woman presents with recurrent abdominal pain and anemia. Peripheral blood smear shows basophilic stippling of the red blood cells. What is the most likely diagnosis ?

- a) Coeliac disease
- b) Hookworm infestation
- c) Sickle cell disease
- d) Lead poisoning

Answer 4

156. A patient presents with lower gastrointestinal bleed. Sigmoidoscopy shows ulcers in the sigmoid. Biopsy from this area shows ulcers in the sigmoid. Biopsy from this area shows flask-shaped ulcers. Which of the following is the most appropriate treatment ?

- a) Intravenous ceftriaxone
- b) Intravenous metronidazole
- c) Intravenous steroids and sulphasalazine
- d) Hydrocortisone enemas.

Answer 2

157. A 25-year old farmer presented with history of high grade fever for 7 days and altered sensorium for 2 days. On examination, he was comatose and had conjunctival hemorrhage. Urgent investigations showed a hemoglobin of 11 gm/dl, serum bilirubin 8 mg/dl and urea 78 mg/dl. Peripheral blood smear was negative for malarial parasite. What is the most likely diagnosis ?

- a) Brucellosis

- b) Weil's disease
- c) Acute viral hepatitis
- d) Q fever

Answer 2

158. A 50-year old lady presented with history of pain upper abdomen, nausea and decreased appetite for 5 days. She had undergone cholecystectomy 2 years back. Her bilirubin was 10 mg/dl, SGOT 900 IU/I SGPT 700 IU/I and serum alkaline phosphatase was 280 IU/I. What is the most likely diagnosis ?

- a) Acute pancreatitis
- b) Acute cholangitis
- c) Acute viral hepatitis
- d) Posterior penetration of peptic ulcer

Answer 3

159. A 70-year old male patient presented to the emergency department with pain in epigastrium and difficulty in breathing for 6 hours. On examination, his heart rate was 56 per minute and the blood pressure was 106/60 mm Hg. Chest examination was normal. The patient has been taking omeprazole for gastroesophageal reflux disease for last 6 months. What should be the initial investigation ?

- a) An ECG Answer Inf wall MI
- b) An upper GI endoscopy
- c) Urgent ultrasound of the abdomen
- d) An x-ray chest

Answer 1

160. A 30-year old delivered a healthy baby at 37 week of gestation. She was a known case of chronic hepatitis B infection. She was positive for HBs Ag but negative for HBeAg. Which of the following is the most appropriate treatment for the baby ?

- a) Both active and passive immunization soon after birth.
- b) Passive immunization soon after birth and active immunization at 1 year of age.
- c) Only passive immunization soon after birth.
- d) Only active immunization soon after birth

Answer 1

161. The blood culture from a patient of febrile neutropenia has grown pseudomonas aeruginosa. When tested for antimicrobial susceptibility, it was found to be a producer of extended spectrum beta lactamase enzyme. The best choice of antimicrobial therapy should be :

- a) Ceftazidime+amikacin
- b) Aztreonam+amikacin
- c) Cefepime+amikacin
- d) Imipenem+amikacin

Answer 3

162. A known HIV positive patient is admitted in an isolation ward after an abdominal surgery following an accident. The resident doctor who changed his dressing the next day found it to be soaked in blood. Which of the following would be the right method of choice of discarding the dressings :

- a) Pour 1% hypochlorite on the dressing material and send it for incineration in a appropriate bag.
- b) Pour 5% hypochlorite on the dressing material and send it for incineration in a appropriate bag.
- c) Put the dressing material directly in an appropriate bag and send for incineration
- d) Pour 2% Lysol on the dressing material and send it for incineration in a appropriate bag

Answer. 1

163. A 45 year old female complains of lower abdominal pain and vaginal discharge. On examination there is cervicitis along with a mucopurulent cervical discharge. The gram smear of the discharge shows presence of abundant pus cells but no bacteria. The best approach to isolate the possible causative agent would be :

- a) Culture on chocolate agar supplemented with Heemin
- b) Culture on McCoy cells
- c) Culture on a bilayer human blood agar
- d) Culture on vero cells lines

Answer 2

164. The sputum specimen of a 70 year old male was cultured on a 5% sheep blood agar. The culture showed the presence of  $\alpha$ -haemolytic colonies next day. The further processing of this organism is most likely to yield :

- a) Gram positive cocci in short chains, catalase negative and bile resistant.
- b) Gram positive cocci in pairs, catalase negative and bile soluble.
- c) Gram positive cocci in pairs, catalase positive and oxidase positive

Answer. 2

165. A major step in the pathogenesis of listeriosis is :

- a) The formation of antigen-antibody complexes with resultant complement activation and tissue damage.
- b) The release of hyaluronidase by *L. monocytogenes*, which contributes to its dissemination from local sites.
- c) The antiphagocytic activity of the *L. monocytogenes* capsule.
- d) The survival and multiplication of *L. monocytogenes* within mononuclear phagocytes and host epithelial cells.

Answer 4

166. In HIV infected individual Gram stain of lung aspirate shows yeast like morphology. All of the following are the most likely diagnosis except :

- a) *Candida tropicalis*
- b) *Cryptococcus neoformans*
- c) *Penicillium marneffi*
- d) *Aspergillus fumigatus*

Answer 4

167. A patient of Acute lymphocytic leukemia with fever and neutropenia develops diarrhoea after administration of amoxicillin therapy, which of the following organism is most likely to be the causative agent ?

- a) Salmonella typhi
- b) Clostridium difficile
- c) Clostridium perfringens
- d) Shigella flexneri

Answer 2

168. The following statements are true with reference to Mycoplasma except :

- a) They are the smallest prokaryotic organisms that can grow in cell free culture media.
- b) They are obligate intracellular organisms.
- c) They lack a cell wall.
- d) They are resistant to Beta-lactam drugs

Answer 2

169. Which of the following strategy has been recommended to reduce the hereditary risk for ovarian cancer in women with BRCA I & BRCA II mutations ?

- a) Use of Oral Contraceptive Pills.
- b) Screening with Transvaginal Ultrasound.
- c) Screening with CA-125.
- d) Prophylactic oophorectomy.

Answer 2

170. The corneal transparency is maintained by :

- a) Keratocytes
- b) Bowman's membrane
- c) Descemet's membrane
- d) Endothelium

Answer 4

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171. The most important indication for surgical repair of a Bicornuate Uterus is :

- a) Infertility
- b) Dysmenorrhoea
- c) Menorrhagia
- d) Habitual abortion

Answer 4

172. The one measurement of fetal maturity that is not affected by a 'bloody tap' during amniocentesis is :

- a) L/S ratio.
- b) Phosphatidyl glycerol
- c) a fetoprotein
- d) Bilirubin as measured by AOD 450

Answer 2

173. Which of the following test is the most sensitive for detection of iron depletion in pregnancy ?

- a) Serum iron
- b) Serum transferrin
- c) Serum ferritin
- d) Serum Erythropoietin

Answer 3

174. At what gestation does the switchover from fetal to adult hemoglobin synthesis **begin** ?

- a) 30 weeks
- b) 36 weeks
- c) 7 days postnatal
- d) 3 weeks postnatal

Answer 1

175. In which of the following conditions would maternal serum a-fetoprotein values be the highest ?

- a) Down's syndrome
- b) Omphalocele ANSWER
- c) Gastroschisis
- d) Spina bifida occulta

Answer 2

176. The drug of choice in treatment of typhoid fever in pregnancy is :

- a) Ampicillin
- b) Chloramphenicol
- c) Ciprofloxacin
- d) Ceftriaxone

Answer 4 The current DOC for children and pregnant women is parenteral ceftriaxone. Reference <http://www.emedicine.com/oph/topic686.htm#section~treatment>

177. The treatment of choice for Anaplastic carcinoma of thyroid infiltrating trachea and sternum will be :

- a) Anaplastic carcinoma
- b) Follicular carcinoma
- c) Papillary carcinoma

d) Palliative/Symptomatic treatments

Answer 3

178. The treatment of choice for Anaplastic carcinoma of thyroid infiltrating trachea and sternum will be:

- a) Radical excision
- b) Chemotherapy
- c) Radiotherapy
- d) Palliative/Symptomatic treatment

Answer 3 /4 (We prefer 4 as it is broad term and encompasses pain / other care needed for a terminal patient)

179. A 10 year old boy developed hoarseness of voice following an attack of diphtheria. On examination, his Rt vocal cord was paralysed. The treatment of choice for paralysed vocal cord will be:

- a) Gel foam injection of right vocal cord
- b) Fat injection of right vocal cord
- c) Thyroplasty type I
- d) Wait for spontaneous recovery of vocal cord.

Answer 4

180. The current treatment of choice for a large Antro-choanal polyp in a 30 year old man is:

- a) Intranasal polypectomy
- b) Caldwell Luc operation
- c) E.S.S. (Endoscopic sinus surgery)
- d) Lateral Rhinotomy and excision

Answer 3

181. A 2 year old boy presents with fever for 3 days which responded to administration of paracetamol. Three days later he developed acute renal failure, marked acidosis and encephalopathy. His urine showed plenty of **oxalate crystals**. The blood anion gap and osmolar gap were increased. Which of the following is the most likely diagnosis?

- a) Paracetamol poisoning
- b) Diethyl glycol poisoning
- c) Severe malaria
- d) Hanta virus infection

Answer 2

182. What is the drug of choice to control supraventricular tachycardia?

- a) Adenosine
- b) Propranolol
- c) Verapamil
- d) Digoxin

Answer 1

183. A child presents with diarrhea and peripheral circulatory failure. The arterial pH is 7.0, PCO<sub>2</sub> 15 mmHg, and PO<sub>2</sub> 76 mmHg. What will be the most appropriate therapy?

- a) Sodium bicarbonate infusion
- b) Bolus of Ringers lactate
- c) Bolus of hydroxyethyl starch
- d) 5% Dextrose infusion

Answer 2

184. A 5 year old child is rushed to casualty reportedly electrocuted while playing in a park. The child is apneic and is ventilated with bag mask. There are burns on each hand. What will be the next step in the management?

- a) Check pulses
- b) Start chest compressions
- c) Intubate
- d) Check oxygen

Answer 3

185. Arterial blood gas of a 5 year old done at sea level gives the following results: pH 7.41, PaO<sub>2</sub> 100 mmHg and PaCO<sub>2</sub> 40 mmHg. The child is being ventilated with 80% oxygen. What is the (A-a) PO<sub>2</sub>?

- a) 570.4 mm Hg
- b) 520.4 mm Hg
- c) 470.4 mm Hg
- d) 420.4 mm Hg

Answer 4

186. Recurrent respiratory tract infections may occur in all of the following except:

- a) Ventricular septal defect
- b) Tetralogy of fallot
- c) Transposition of great arteries
- d) Total anomalous venous return

Answer 2

187. A 6 month old boy weighting 3.2 kg presents with recurrent vomiting and polyuria. Investigations show blood urea 60 mg/dL, creatinine 0.7 mg/dL, calcium 12.8 mg/dL, phosphate 3 mg/dL, pH 7.45, bicarbonate 25 mEq/L and PTH 140 pg/ml (normal < 60 pg/ml). Daily urinary calcium excretion is reduced. Ultrasound abdomen show bilateral nephrocalcinosis. The most likely diagnosis is:

- a) Bartter syndrome
- b) Mutation of the calcium sensing receptor.
- c) Pseudo-pseudohypoparathyroidism
- d) Parathyroid adenoma

Answer 4

188. A female child has recently learned to eat with spoon without spilling; to dress and undress herself with supervision; and to understand that she is a girl. These skills are FIRST mastered between the ages of:

- a) 2 & 3 years
- b) 3 & 4 years
- c) 4 & 5 years
- d) 5 & 6 years

Answer 1

189. Which of the following antiepileptic agents acts on the GABAergic system to decrease the uptake of GABA into neurons and glial cells:

- a) Vigabatrin
- b) Progabide
- c) Gabapentin
- d) Tiagabine

Answer 3

190. The Mu receptor of the opioids is responsible for the following clinical actions except:

- a) Analgesia
- b) Respiratory depression
- c) Sedation
- d) Diuresis

Answer 4

191. Which one of the following drugs does not produce central anticholinergic syndrome:

- a) Atropine sulphate
- b) Glycopyrrolate
- c) Antihistaminics
- d) Tricyclic antidepressants

Answer 2

192. Heparin is the commonly used anticoagulant in cardiac surgery. All of the following are true about heparin except:

- a) Weakest acid found in living things
- b) Most commercial preparations of heparin now utilize pig intestinal slimes
- c) Act via Antithrombin activation
- d) Produce thrombocytopenia

Answer 1

193. The new agent, useful in breast cancer, belongs to which of the following category of drugs?

- a) Antitumor antibiotic
- b) Alkylating agent
- c) Hormonal agent
- d) Antimetabolite

Answer 4 (pemetrexed is anti folate agent discovered for malignant mesothelioma. Only drug proven to improve malignant mesothelioma. 2003 CMDT 1611 pg.)

194. Bradycardia is common after injection of:

- a) Midazolam
- b) Succinyl choline
- c) Dopamine
- d) Isoprenaline

Answer 2

195. According to myogenic hypothesis of renal autoregulation, the afferent arterioles contract in response to stretch induced by:

- a) No release
- b) Noradrenaline release
- c) Opening of  $Ca^{2+}$  channels
- d) Adenosine release

Answer 3

196. All of the following transport processes follow 'saturation kinetics' except:

- a) Facilitated diffusion
- b)  $Na^{+}$ - $Ca^{2+}$  exchanger
- c) Simple diffusion
- d)  $Na^{+}$  coupled active transport

Answer 3

197. An anterolateral cordotomy relieving pain in right leg is effective because it interrupts the:

- a) Left dorsal column
- b) Left ventral spinothalamic tract
- c) Left lateral spinothalamic tract
- d) Right lateral spinothalamic tract

Answer 3

198. Fetal haemoglobin has all the following characteristic features except:

- a) Strong affinity for 2,3-DPG
- b) Oxygen dissociation curve is shifted to left
- c) At low fetal  $PO_2$  gives up more oxygen to tissues than adult hemoglobin.
- d) Forms 80% of haemoglobin at birth

Answer 1

199. Beta waveforms in electroencephalogram designate which of the following states of the patient?

- a) Deep Anaesthesia
- b) Surgical Anaesthesia

- c) Light Anaesthesia, eyes closed, relaxed
- d) Awake/alert state

Answer 4

200. A 24 years old primigravida wt=57 kg. Hb 11.0 gm% visits an antenatal clinic during 2nd trimester of pregnancy seeking advice on dietary intake. She should be advised:

- a) Additional intake of 300 kcal
- b) Additional intake of 500 kcal
- c) Additional intake of 650 kcal
- d) No extra kcal

Answer 1