

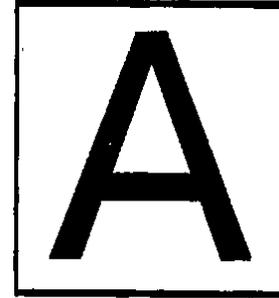
C.M.S-2010

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

T.B.C. : O-DNT-K-HBA

Test Booklet Series

Serial No 030901



## TEST BOOKLET

PAPER I : GENERAL ABILITY, GENERAL  
MEDICINE, PAEDIATRICS

Time Allowed : Two Hours

Maximum Marks : 250

### INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES **NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
  2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C, OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
  3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
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4. This Test Booklet contains 120 items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
  5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
  6. All items carry equal marks.
  7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
  8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
  9. Sheets for rough work are appended in the Test Booklet at the end.
  10. **Penalty for wrong answers :**  
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
    - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third (0.33)** of the marks assigned to that question will be deducted as penalty.
    - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
    - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. A young college student having regular heart rate of 172 beats per minute attends OPD for uneasy sensation in chest. Carotid sinus pressure brings down the heart rate to 72 per minute. What is the most likely diagnosis ?
  - (a) Ventricular tachycardia
  - (b) Atrial fibrillation
  - (c) Sinus arrhythmia
  - (d) Paroxysmal supraventricular tachycardia
2. A 66-year-old lady presents to emergency with 2 episodes of vomiting. Her ECG shows elevation of ST segment in inferior leads. Her BP is 80 mm systolic. The best way to start correcting her BP is
  - (a) Immediate Thrombolysis
  - (b) Rescue PTCA
  - (c) Normal saline infusion
  - (d) Dopamine infusion
3. A 15-year-old boy is brought to the emergency room by the class teacher from the chemistry laboratory. The boy is an atopic individual with pulse rate of 116/minute regular, unable to speak in sentences and ABG shows severe hypoxaemia. What is the probable diagnosis ?
  - (a) Acute bacterial pneumonia
  - (b) Acute severe asthma
  - (c) Acute pleurisy
  - (d) Tension pneumothorax
4. A 45-year-old man presented with regurgitated food particles eaten several days earlier. He has foul smelling breath and occasional dysphagia for solid food. What is the probable diagnosis ?
  - (a) Gastric outlet obstruction
  - (b) Zenker's diverticulum
  - (c) Scleroderma
  - (d) Diabetic gastroparesis
5. Which one of the following bacteria almost never cause cavities in the lungs ?
  - (a) *Staphylococcus aureus*
  - (b) *Pseudomonas aeruginosa*
  - (c) *Actinomyces*
  - (d) *Haemophilus influenzae*
6. A 24-year-old woman with the history of ulcerative colitis presented with progressive jaundice associated with pruritus and intermittent right upper quadrant abdominal pain. What would be the most likely ERCP finding ?
  - (a) Normal finding
  - (b) Diffuse strictures of common bile duct
  - (c) Malignant strictures of common bile duct
  - (d) Stones

7. Early recurrent falls in elderly with ophthalmoplegia suggests the possibility of

- (a) Huntington's chorea
- (b) Parkinson's disease
- (c) Shy-Drager syndrome
- (d) Progressive supra nuclear palsy

8. Consider the following :

Recognised causes of proximal type II Renal Tubular Acidosis (RTA) include :

- 1. Amyloidosis
- 2. Heavy metal poisoning
- 3. Renal transplant rejection
- 4. Hyperparathyroidism

Select the correct answer using the code given below :

- (a) 1, 3 and 4
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) 2, 3 and 4

9. Criteria for hospital admission of an adult with community acquired pneumonia includes all *except* :

- (a) Respiratory rate > 28/min
- (b) Total leukocyte count > 11,000/cu mm
- (c) New onset confusion or impaired level of consciousness
- (d) Hypoxemia PaO<sub>2</sub> < 60 mm Hg

10. Consuming which of the following food products is most associated with *Escherichia coli* type 0157 infection ?

- (a) Eggs
- (b) Poultry
- (c) Beef
- (d) Soft cheese

11. Which one of the following organisms is *not* included in HACEK group ?

- (a) *Actinobacillus actinomycetemcomitans*
- (b) *Corynebacterium jeikeium*
- (c) *Haemophilus sp.*
- (d) *Kingella kingae*

12. The clinical features of congenital syphilis in neonatal period include the following *except*

- (a) Interstitial keratitis
- (b) Choroiditis
- (c) Meningitis
- (d) Osteochondritis

13. Which of the following diseases is *not* caused by Spirochetes ?

- (a) Human leptospirosis
- (b) Pinta
- (c) Relapsing fever
- (d) Undulant fever

14. A young male develops febrile illness with severe muscle pains one week after prolonged swimming in fresh water. It is associated with deep jaundice, haemorrhages and renal failure. What is the most likely diagnosis ?
- (a) Dengue fever
  - (b) Falciparum malaria
  - (c) Acute Hepatitis E infection
  - (d) Leptospirosis
15. Which of the following is *not* a Spirochete ?
- (a) Borrelia
  - (b) Legionella
  - (c) Leptospira
  - (d) Treponema
16. Neurocysticercosis is caused by
- (a) Adult form of *Taenia solium*
  - (b) Larval form of *Taenia solium*
  - (c) Adult form of *Taenia saginata*
  - (d) Larval form of *Taenia saginata*
17. The following are the WHO criteria for diagnosis of severe malaria *except*
- (a) Temperature > 39° C
  - (b) Severe normocytic anaemia (Hb < 5 g/dl)
  - (c) Hypoglycemia
  - (d) Metabolic acidosis
18. Which of the following has the best sensitivity and specificity for diagnosis of visceral leishmaniasis ?
- (a) Direct agglutination test
  - (b) Latex agglutination test
  - (c) Strip test for recombinant K<sub>39</sub> antigen
  - (d) Fluorescent dye tagged antibodies
19. Which of the following is the drug of choice for the treatment of all forms of Schistosomiasis ?
- (a) Niclosamide
  - (b) Ivermectin
  - (c) Albendazole
  - (d) Praziquantel
20. Which of the following organisms causes lymphatic filariasis ?
- (a) *Brugia timori*
  - (b) *Loa loa*
  - (c) *Mansonella perstans*
  - (d) *Onchocerca volvulus*
21. Allergic bronchopulmonary aspergillosis is a condition which often occurs in patients with pre-existing
- (a) Adeno-carcinoma lung
  - (b) Pulmonary tuberculosis
  - (c) Bronchial asthma
  - (d) Sarcoidosis

22. Which one of the following drugs is *not* recommended for treatment of invasive candidiasis in neutropenic patients ?
- (a) Amphotericin-B
  - (b) Caspofungin
  - (c) Nystatin
  - (d) Voriconazole
23. What is the earliest manifestation of hypovolaemia ?
- (a) Loss of skin turgor
  - (b) Sunken eye balls
  - (c) Orthostatic hypotension
  - (d) Decreased urine output
24. A 27-year-old lady presents with menorrhagia. She is worried as she has gained 12 kg weight and her hair is becoming coarse. She also complains of constipation. What is the single best test for evaluation of this patient ?
- (a) Thyroid scan
  - (b) Serum iodine
  - (c) Free T4
  - (d) TSH
25. Duchenne muscular dystrophy is transmitted as
- (a) X linked dominant
  - (b) X linked recessive
  - (c) Autosomal dominant
  - (d) Autosomal recessive
26. What is the treatment of choice in a patient of Haemophilia A ?
- (a) Epoprostenol
  - (b) Oral corticosteroids
  - (c) Recombinant factor VIII concentrate
  - (d) Blood transfusion
27. What is the optimum duration of antibacterial treatment of acute bacterial prostatitis ?
- (a) 3 days
  - (b) 4 – 6 weeks
  - (c) 7 – 14 days
  - (d) 2 – 14 days

28. Which of the following statements is *not* correct about monobactam aztreonam ?

- (a) It has excellent anti-gram-negative antibiotic activity.
- (b) It is not useful against gram-positive organisms or anaerobes.
- (c) It is available as oral preparation.
- (d) It is administered 12 hourly.

29. A blood sample from a patient with polycythemia vera is sent for complete blood count. Which of the following blood components is most likely to be reported within normal limits ?

- (a) Lymphocytes
- (b) Neutrophils
- (c) Platelets
- (d) RBCs

30. Polyuria in nephrogenic diabetes insipidus is improved by the following *except*

- (a) Thiazide diuretics
- (b) Amiloride
- (c) Indomethacin
- (d) Frusemide

31. Consider the following :

1. Sulfonylureas
2. Biguanides
3. Thiazolidinediones

Which of the above is/are *not* recommended for use as first line therapy in type 1 diabetes mellitus ?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

32. All of the following drugs increase urinary excretion of uric acid *except*

- (a) Acetyl salicylic acid
- (b) Phenylbutazone
- (c) Sulfinpyrazone
- (d) Acetaminophen

33. In which stage of syphilis are the lesions of condyloma lata present ?

- (a) Primary
- (b) Secondary
- (c) Tertiary
- (d) Congenital

34. Wernicke's encephalopathy consists of
- (a) Mental impairment, ophthalmoplegia and cerebellar ataxia
  - (b) Delirium, facial palsy and cerebellar ataxia
  - (c) Ophthalmoplegia, hearing loss and ataxia
  - (d) Ophthalmoplegia, facial palsy and ataxia

35. With reference to Vitamin B<sub>6</sub>, consider the following statements :
1. It is a cofactor for metabolism of many amino acids.
  2. Its active form in humans is pyridoxal 5-phosphate.

Which of the statements given above is/are correct ?

- (a) 1 only
  - (b) 2 only
  - (c) Both 1 and 2
  - (d) Neither 1 nor 2
36. A cystic boggy inflammatory swelling over scalp in a child with partial or complete alopecia is called
- (a) Folliculitis decalvans
  - (b) Haematoma
  - (c) Kerion
  - (d) Congenital syphilis

37. The earliest sensation to be lost in leprosy is
- (a) Thermal
  - (b) Tactile
  - (c) Pain
  - (d) Vibration

38. What is the causative virus for common wart ?
- (a) Human papilloma virus
  - (b) Cytomegalovirus
  - (c) Human immunodeficiency virus
  - (d) Herpes virus

39. Wood's lamp is helpful in recognition of 'ash leaf' spots in patients with
- (a) Atopic dermatitis
  - (b) Lichen planus
  - (c) Nummular eczema
  - (d) Tuberos sclerosi

40. A patient with HIV-AIDS on treatment for tubercular lymphadenitis develops a gross increase in the size of lymph nodes after receiving antiretroviral therapy for four weeks. Laboratory tests show a doubling of his CD4 count. What is the most likely reason for this ?
- (a) Multi-drug persistent TB
  - (b) Drug defaulter for anti TB drugs
  - (c) Immune reconstitution inflammatory syndrome
  - (d) Poor compliance for antiretroviral therapy

41. Which one of the following is the most appropriate treatment of overdose of aspirin ingestion ?

- (a) Acetazolamide
- (b) Sodium bi-carbonate
- (c) Allopurinol
- (d) N-acetyl cysteine

42. A homogenous white non-inflammatory discharge that smoothly coats the vaginal walls and vestibules with positive Amsler's criterion is characteristic of

- (a) *Candida albicans*
- (b) *Trichomonas vaginalis*
- (c) *Gardnerella vaginalis*
- (d) *Niesseria gonorrhoea*

43. A 21-year-old man presents with recurrent episodes of intensely pruritic vesicles symmetrically distributed over the trunk. On electron microscopy, granular deposition of IgA and complement is noted at the mucoepidermal junction. Which of the following underlying conditions predisposes patients to the described skin disorder ?

- (a) Celiac sprue
- (b) Lactase deficiency
- (c) Whipple's disease
- (d) Ulcerative colitis

44. As regards carpal tunnel syndrome, which one of the following statements is *not* correct ?

- (a) It may occur in hypothyroidism.
- (b) Pain or tingling of fingers often occurs at night.
- (c) There is decreased strength of abduction, flexion and opposition of the thumb.
- (d) Localised tenosynovitis of the flexor tendons of the fingers is an infrequent cause.

45. Match List I with List II and select the correct answer using the code given below the lists :

| <i>List I</i><br>(Type of antibody) | <i>List II</i><br>(Disease state) |
|-------------------------------------|-----------------------------------|
| A. Anti ds DNA                      | 1. Drug induced lupus             |
| B. Anti RNP                         | 2. Crest syndrome                 |
| C. Anti Histone                     | 3. S.L.E.                         |
| D. Anti Centromere                  | 4. MCTD                           |

Code :

|     | A | B | C | D |
|-----|---|---|---|---|
| (a) | 2 | 4 | 1 | 3 |
| (b) | 2 | 1 | 4 | 3 |
| (c) | 3 | 4 | 1 | 2 |
| (d) | 3 | 1 | 4 | 2 |

46. A young adult presents in emergency room with acute onset of dysphagia, bilateral ptosis and generalized muscle weakness. What is the most likely possibility ?

- (a) Thyrotoxic myopathy
- (b) Myasthenia gravis
- (c) Muscular dystrophy
- (d) Hypokalaemic periodic paralysis

47. The following are the features of schizophrenia *except*

- (a) Delusions
- (b) Loosening of associations
- (c) Flight of ideas
- (d) Hallucinations

48. Match List I with List II and select the correct answer using the code given below the lists :

| <i>List I</i><br>( <i>Anti psychotic agent</i> ) | <i>List II</i><br>( <i>Side effect</i> ) |
|--|--|
| A. Thioridazine                                  | 1. Pigmentary retinopathy                |
| B. Clozapine                                     | 2. Somnolence                            |
| C. Olanzapine                                    | 3. Akthisia                              |
| D. Haloperidol                                   | 4. Agranulocytosis                       |

Code :

- |     | A | B | C | D |
|-----|---|---|---|---|
| (a) | 1 | 4 | 2 | 3 |
| (b) | 1 | 2 | 4 | 3 |
| (c) | 3 | 2 | 4 | 1 |
| (d) | 3 | 4 | 2 | 1 |

49. Match List I with List II and select the correct answer using the code given below the lists :

| <i>List I</i><br>( <i>Disease</i> ) | <i>List II</i><br>( <i>Drug</i> ) |
|-------------------------------------|-----------------------------------|
| A. Bipolar disorder                 | 1. Clomipramine                   |
| B. Major depression                 | 2. Clozapine                      |
| C. Schizophrenia                    | 3. Venlafaxine                    |
| D. Obsessive compulsive disorder    | 4. Lithium                        |

Code :

- |     | A | B | C | D |
|-----|---|---|---|---|
| (a) | 1 | 2 | 3 | 4 |
| (b) | 1 | 3 | 2 | 4 |
| (c) | 4 | 2 | 3 | 1 |
| (d) | 4 | 3 | 2 | 1 |

50. The tumour suppressor gene that is inactivated in over 50% of human tumours including breast and colon carcinomas and childhood leukaemias is

- (a) p Rb
- (b) STK 11
- (c) p 53
- (d) VHL

51. A 70-year-old man presents with difficulty in finding ways around his neighbourhood. His wife says he has become forgetful and cannot manage money. He has difficulty in naming his relatives. Clinical examination reveals ideomotor apaxia and memory impairment. The available drugs to manage this condition usually target which one of the following neurotransmitters ?

- (a) Serotonin
- (b) Histamine
- (c) Acetylcholine
- (d) Dopamine

52. The clinical finding in trisomy 21 includes the following *except*

- (a) Growth failure
- (b) Intestinal stenosis
- (c) Mental retardation
- (d) Brachydactyly

53. Which one of the following is *not* an example of point mutation ?

- (a) Haemochromatosis
- (b) Hereditary motor and sensory neuropathy type 1
- (c) Achondroplasia
- (d)  $\alpha$ -1 antitrypsin deficiency

54. Match List I with List II and select the correct answer using the code given below the lists :

| <u>List I</u><br>( <u>Arrhythmias</u> ) | <u>List II</u><br>( <u>Causative drugs</u> ) |
|---|--|
| A. Atrio-ventricular block              | 1. Phenothiazine                             |
| B. Sinus tachycardia                    | 2. Beta blockers                             |
| C. Wide QRS                             | 3. Terfenadine                               |
| D. QT interval prolongation             | 4. Theophylline                              |

Code :

|     | A | B | C | D |
|-----|---|---|---|---|
| (a) | 3 | 1 | 4 | 2 |
| (b) | 2 | 1 | 4 | 3 |
| (c) | 3 | 4 | 1 | 2 |
| (d) | 2 | 4 | 1 | 3 |

55. The pupils of a patient would be pinpoint in poisoning with the following agents *except*

- (a) Carbamates
- (b) Phenothiazines
- (c) Barbiturates
- (d) Opioids

56. The intermediate syndrome in organophosphate poisoning refers to the occurrence of which of the following ?

- (a) Cholinergic syndrome with hyper-secretion
- (b) Organophosphate induced polyneuropathy
- (c) Organophosphate induced delayed neuropathy
- (d) Cranial nerve and brain stem lesions

57. As regards the treatment of poisoning, activated charcoal is useful in the following *except*
- (a) Carbamazepine
  - (b) Dapsone
  - (c) Quinine
  - (d) Lithium
58. Which of the following CD phenotypes is expressed by the killer T cells which are responsible for defence against intracellular pathogens ?
- (a) CD 2
  - (b) CD 5
  - (c) CD 8
  - (d) CD 10
59. What is the risk of reactivating latent tuberculosis infection in a patient having HIV infection ?
- (a) 2 - 5%
  - (b) 7 - 10%
  - (c) 12 - 15%
  - (d) < 1%
60. The immunoglobulin which passes through placenta and gives immunity to newborns is
- (a) IgM
  - (b) IgA
  - (c) IgG
  - (d) IgE
61. Intravenous immunoglobulin therapy is indicated in the following conditions *except*
- (a) Idiopathic thrombocytopenic purpura
  - (b) Severe rheumatoid arthritis
  - (c) Guillain Barré syndrome
  - (d) Dermatomyositis
62. Binding to which of the following complements links the innate and adaptive immune systems for activation of the classic complement pathway ?
- (a) Clq
  - (b) C3b
  - (c) C3
  - (d) C5a
63. In a case of undifferentiated arthritis, presence of anti-cyclic citrullinated peptide (anti CCP) indicates strong possibility of which of the following ?
- (a) Rheumatoid arthritis
  - (b) Systemic lupus erythematosus
  - (c) Mixed connective tissue disorder
  - (d) Reactive arthritis
64. C-reactive protein is increased in the following *except*
- (a) Crohn's disease
  - (b) Systemic vasculitis
  - (c) Multiple myeloma
  - (d) Giant cell arteritis

65. Which of the following regimens is best for the pre-operative management of a patient with pheochromocytoma ?
- (a) Propranolol alone
  - (b) Propranolol followed by phenoxy-benzamine
  - (c) Prazosin
  - (d) Phenoxy-benzamine followed by propranolol
66. Digitalis glycosides enhance myocardial contractility primarily by which one of the following mechanisms ?
- (a) Opening of calcium channels
  - (b) Inhibition of membrane  $\text{Na}^+$ ,  $\text{K}^+$ -ATPase
  - (c) Stimulation of myosin ATPase
  - (d) Release of calcium from the sarcoplasmic reticulum
67. Rifampicin can be used in the prophylaxis of which of the following diseases ?
- (a) Pulmonary tuberculosis
  - (b) Lepromatous leprosy
  - (c) Pneumococcal pneumonia
  - (d) Meningococcal meningitis
68. Which one of the following is the drug of choice in the treatment of Torsades de pointes ?
- (a) Magnesium sulphate
  - (b) Isoproterenol
  - (c) Procainamide
  - (d) Atropine
69. The following chemotherapeutic drugs have cardiovascular toxicity *except*
- (a) Cyclophosphamide
  - (b) Doxorubicin
  - (c) Azathioprine
  - (d) Mitoxantrone
70. Dysphagia which is more for liquids than for solids in a 25-year-old female strongly suggests the possibility of
- (a) Pseudobulbar palsy
  - (b) Achalasia of oesophagus
  - (c) Carcinoma of oesophagus
  - (d) Corrosive induced oesophageal stricture
71. A 7-year-old child with rheumatic heart disease presents with pallor, fever and a palpable spleen. The following investigations would be needed to arrive at a diagnosis *except*
- (a) Electro-cardiogram
  - (b) Echocardiogram
  - (c) Blood culture
  - (d) Urine examination
72. An eight-year-old boy is suspected to have acute rheumatic carditis. An ECG is most likely to reveal
- (a) Prolonged PR interval
  - (b) Prolonged QT interval
  - (c) ST-T wave changes
  - (d) Sinus bradycardia

73. An 8-month-old female child presented to emergency with a heart rate of 220/minute and features of congestive heart failure. Her heart rate comes down to normal after administering intravenous adenosine. What is the most likely diagnosis ?
- (a) Atrial fibrillation
  - (b) Atrial flutter
  - (c) Paroxysmal supraventricular tachycardia
  - (d) Ventricular tachycardia
74. A newborn infant was referred with intermittent cyanosis which improved on crying but worsened when quiet. What is the most likely diagnosis ?
- (a) Diaphragmatic hernia
  - (b) Congenital heart disease (Cyanotic)
  - (c) Choanal atresia
  - (d) Tracheal agenesis
75. What is the correct composition (per litre) of WHO Reduced Osmolarity ORS ?
- (a) NaCl 2.29 g; KCl 1.1 g; Glucose 13.1 g; Citrate 2.5 g
  - (b) NaCl 2.49 g; KCl 1.3 g; Glucose 13.3 g; Citrate 2.7 g
  - (c) NaCl 2.69 g; KCl 1.5 g; Glucose 13.5 g; Citrate 2.9 g
  - (d) NaCl 2.89 g; KCl 1.7 g; Glucose 13.7 g; Citrate 3.1 g
76. Which one of the following is *not* a feature of Turner's syndrome ?
- (a) Webbed neck
  - (b) Horse-shoe kidney
  - (c) Coarctation of aorta
  - (d) Mental retardation
77. The following is usually the first sign of puberty in girls :
- (a) Onset of menstruation
  - (b) Appearance of pubic hair
  - (c) Change in voice
  - (d) Increase in breast size
78. Guthrie test can be used for the diagnosis of
- (a) Tyrosinemia
  - (b) Galactosemia
  - (c) Alcaptonuria
  - (d) Phenylketonuria
79. A one-week-old male newborn suddenly presents with lethargy, poor oral intake and features of shock. Investigations reveal hyperkalaemia, hyponatraemia and hypoglycaemia. What is the most likely diagnosis ?
- (a) Syndrome of inappropriate ADH secretion
  - (b) Gram negative sepsis
  - (c) Congenital adrenal hyperplasia
  - (d) Phenylketonuria

80. Which one of the following statements is *not* correct regarding juvenile rheumatoid arthritis ?
- (a) The disease begins below 16 years of age
  - (b) Systemic disease (Still's disease) is the common presentation
  - (c) Uveitis can be asymptomatic
  - (d) Course of the disease has no association with uveitis
81. Acrodermatitis enteropathica is associated with the deficiency of
- (a) Copper
  - (b) Cobalt
  - (c) Chromium
  - (d) Zinc
82. Following genetic disorders are inherited as autosomal dominant *except*
- (a) Achondroplasia
  - (b) Neurofibromatosis
  - (c) Marfan syndrome
  - (d) Cystic fibrosis
83. "Red current jelly" stool in an infant is characteristic of
- (a) Acute gastroenteritis
  - (b) Rectal piles
  - (c) Intussusception
  - (d) Fissure-in-ano
84. Chloroma is a feature of
- (a) Burkitt's lymphoma
  - (b) Acute lymphoblastic leukaemia
  - (c) Acute myeloid leukaemia
  - (d) Ewing's sarcoma
85. Wilms' tumor is associated with the following *except*
- (a) Aniridia
  - (b) Horse-shoe kidney
  - (c) Hemihypertrophy
  - (d) Opsoclonus
86. Consider the following statements :
- Antidotes now considered obsolete include the following :
1. Universal antidote for ingested poisons
  2. Flumazenil for benzodiazepines
  3. Acetylcysteine for paracetamol
  4. Pyridoxine for isoniazid
- Which of the statements given above is/are correct ?
- (a) 1 only
  - (b) 1 and 2 only
  - (c) 3 and 4 only
  - (d) 1, 2, 3 and 4

87. Lutembacher's syndrome comprises of  
(a) Ventricular septal defect with aortic stenosis  
(b) Ruptured sinus of valsalva aneurysm  
(c) Atrial septal defect with mitral stenosis  
(d) Complete common atrioventricular canal

88. Phlyctenular conjunctivitis is associated with  
(a) Tuberculosis  
(b) Syphilis  
(c) Stevens Johnson syndrome  
(d) Leprosy

89. What is the most frequent causative agent for acute epiglottitis in children under 5 years of age ?  
(a) *Haemophilus influenzae* type B  
(b) *Influenza* virus type A  
(c) *Para influenza* virus type 1  
(d) *Staphylococcus aureus*

90. A 4-year-old child is admitted with fever, non-purulent conjunctivitis, rashes, cervical lymphadenopathy, hepatomegaly and desquamation of fingers and toes. Echocardiography shows coronary artery aneurysm. What is the most likely diagnosis ?  
(a) Measles  
(b) German measles  
(c) Progeria  
(d) Kawasaki disease

91. In which one of the following states of India is the floating National Park located ?  
(a) Chhattisgarh  
(b) Madhya Pradesh  
(c) Manipur  
(d) Meghalaya

92. Which one of the following is the first multipurpose river project of India ?  
(a) Bhakra Nangal Project  
(b) Damodar Valley Corporation  
(c) Farakka Barrage  
(d) Nagarjuna Sagar Project

93. Which one of the following is a UNESCO World Heritage Site ?  
(a) Bhiterkanika  
(b) Hampi  
(c) Pachmarhi  
(d) Shraavanabelagola

94. From the surface of the Earth, Ozone is found in the atmosphere mostly between  
(a) 2 km and 5 km  
(b) 10 km and 15 km  
(c) 20 km and 50 km  
(d) 60 km and 100 km

95. The President of India is elected by the members of an electoral college which does *not* include

- (a) the elected members of the State Assemblies
- (b) the elected members of the State Legislative Councils
- (c) the elected members of the Lok Sabha
- (d) the elected members of the Rajya Sabha

96. Consider the following statements :

- 1. The Secretary of the Planning Commission of India is also the Secretary of the National Development Council.
- 2. The Chairman of the Rajya Sabha is also the ex-officio Chairman of the Planning Commission.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

97. Match List I with List II and select the correct answer using the code given below the lists :

|   |                           |
|---|---------------------------|
| <i>List I</i><br>(Location of Nuclear<br>Power Reactor) | <i>List II</i><br>(State) |
|---|---------------------------|

- |               |                  |
|---------------|------------------|
| A. Kaiga      | 1. Gujarat       |
| B. Kakrapar   | 2. Karnataka     |
| C. Narora     | 3. Rajasthan     |
| D. Rawatbhata | 4. Uttar Pradesh |

Code :

- |     | A | B | C | D |
|-----|---|---|---|---|
| (a) | 1 | 2 | 3 | 4 |
| (b) | 2 | 1 | 4 | 3 |
| (c) | 1 | 2 | 4 | 3 |
| (d) | 2 | 1 | 3 | 4 |

98. Which one of the following is used in preparing the Kargasok tea ?

- (a) Bacterium
- (b) Fungus
- (c) Insect larva
- (d) Latex of a plant

99. Consider the following statements with reference to National Rural Health Mission :

The 'Asha' helps in

1. Using pregnancy test kits for early detection of pregnancy.
2. Providing information on nutrition and immunization.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

100. Among the following states, which one has the lowest density of population as per 2001 census ?

- (a) Arunachal Pradesh
- (b) Chattisgarh
- (c) Meghalaya
- (d) Sikkim

101. Which one of the following rivers of India is well known for the presence of dolphins ?

- (a) Brahmaputra
- (b) Ganga
- (c) Godavari
- (d) Narmada

102. Lead Chromate is used as an adulterant in

- (a) Black pepper
- (b) Chilli powder
- (c) Turmeric powder
- (d) Wheat flour

103. Which one among the following is used for the preservation of fruit juices ?

- (a) Ethylene dibromide
- (b) Sodium thiosulphate
- (c) Sodium benzoate
- (d) Tartaric acid

104. Aflatoxin is produced as a result of the growth of

- (a) Alga
- (b) Bacterium
- (c) Fungus
- (d) Protozoan

105. Recently, a team of scientists used a strain of a bacterium called *Wolbachia pipientis* to infect *Aedes aegypti* in an effort to reduce the mosquito's life span. In which one of the following countries was this done ?

- (a) Australia
- (b) China
- (c) India
- (d) Japan

106. The Spitzer Space Telescope belongs to
- (a) European Space Agency
  - (b) Indian Space Research Organization
  - (c) National Aeronautics and Space Administration
  - (d) Western European Union

107. With reference to recent research in stem cells, consider the following statements :

- 1. The umbilical cord tissue is rich in mesenchymal stem cells.
- 2. Mesenchymal stem cells are found in bone marrow also.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

108. What is KG-D6 frequently in national news in the recent past ?

- (a) Name of a software for e-governance
- (b) Name of a supercomputer
- (c) Name of a hydrocarbon block
- (d) Name of a mini-satellite

109. Consider the following statements :

- 1. In India, Prevention of Food Adulteration Act was enacted in 1972.
- 2. Under the Prevention of Food Adulteration Act, a penalty of life imprisonment can be imposed in certain offences.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

110. Among the following countries, which one launched its first indigenous satellite in the recent past ?

- (a) Egypt
- (b) Iran
- (c) Saudi Arabia
- (d) Libya

111. With reference to the Pill Camera which is a step further in endoscopy, consider the following statements :

1. Pill camera can be steered by doctors from outside the body through patient's skin via a magnetic device.
2. Pill Camera can take 12 images per second.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

112. In India, who is the head of the National Disaster Management Authority ?

- (a) Secretary of the Union Ministry of Health and Family Welfare
- (b) Director General of Health Services, Government of India
- (c) Union Minister of Health and Family Welfare
- (d) Prime Minister

113. In India, what is the contribution of agriculture and allied sectors to Gross Domestic Product (GDP) ?

- (a) Less than 30%
- (b) 30 to 35%
- (c) 35 to 40%
- (d) More than 40%

114. Which one of the following countries has the largest livestock population in the world ?

- (a) China
- (b) India
- (c) Indonesia
- (d) USA

115. The National Health Policy (2002) envisages the goal of Lymphatic Filariasis Elimination from India by the year

- (a) 2010
- (b) 2012
- (c) 2015
- (d) 2018

116. Bhima is a tributary of the river

- (a) Ganga
- (b) Godavari
- (c) Indus
- (d) Krishna

117. In India, which one of the following Union Ministries is designated as the National Codex Contact Point to examine and formulate India's views on the agenda for the various meetings of Codex Alimentarius Commission that deals with International Food Standards ?

- (a) Ministry of Consumer Affairs, Food and Public Distribution
- (b) Ministry of Food Processing Industries
- (c) Ministry of Health and Family Welfare
- (d) Ministry of Science and Technology

118. In which of the following regions of India is the tropical rain forest found ?

- (a) Eastern Ghats of South India
- (b) Western Ghats of South India
- (c) Satpura Hill range in Central India
- (d) The junction of Vindhya and Satpura ranges

119. What is Bt cotton, often in the news ?

- (a) Drought resistant variety of cotton developed by genetic engineering
- (b) High yielding exotic variety of cotton introduced in India in the recent past
- (c) Pest resistant variety of cotton developed by genetic engineering
- (d) Hybrid of a long-staple cotton from America with the native variety

120. Consider the following pairs :

| <u>Place</u>    | : | <u>River</u> |
|-----------------|---|--------------|
| 1. Bhadrachalam | : | Godavari     |
| 2. Badrinath    | : | Bhagirathi   |
| 3. Omkareshwar  | : | Narmada      |

Which of the pair/pairs given above is/are correctly matched ?

- (a) 1 only
- (b) 2 and 3
- (c) 1 and 3
- (d) 1, 2 and 3

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