

**NOTE : DO NOT BREAK THE SEAL UNTIL YOU GO THROUGH THE
FOLLOWING INSTRUCTIONS**

**MD/MS/PG Diploma Entrance Test – 2012
QUESTION BOOKLET
Paper — I (Pre-Clinic & Para-Clinic)**

Roll No.

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(Enter your Roll Number in the above space)

Series

A

Booklet No.

110885

Time Allowed : 2 Hours

Max. Marks : 150

INSTRUCTIONS :

1. Use only BLACK or BLUE Ball Pen.
2. All questions are COMPULSORY.
3. Check the BOOKLET thoroughly.

IN CASE OF ANY DEFECT - MISPRINTS, MISSING QUESTION/S OR DUPLICATION OF QUESTION/S, GET THE BOOKLET CHANGED WITH THE BOOKLET OF THE SAME SERIES. NO COMPLAINT SHALL BE ENTERTAINED AFTER THE ENTRANCE TEST.

4. Before you mark the answer, fill in the particulars in the ANSWER SHEET carefully and correctly. Incomplete and incorrect particulars may result in the non-evaluation of your answer sheet by the technology.
5. Write the SERIES and BOOKLET No. given at the TOP RIGHT HAND SIDE of the question booklet in the space provided in the answer sheet by darkening the corresponding circles.
6. Do not use any eraser, fluid pens, blades etc., otherwise your answer sheet is likely to be rejected whenever detected.
7. After completing the test, handover the ORIGINAL COPY of ANSWER SHEET to the Invigilator and take the CANDIDATE'S COPY of ANSWER SHEET with you.

28801i

1. Medulla oblongata develops from
 - (1) Mesencephalon
 - (2) Metencephalon
 - (3) Myelencephalon
 - (4) Prosencephalon
2. All are the derivatives of mesonephric duct and tubules in females EXCEPT
 - (1) Epoophoron
 - (2) Paroophoron
 - (3) Gartner's duct
 - (4) Bartholin's gland
3. Coracoid process of scapula is a _____ epiphysis.
 - (1) pressure
 - (2) traction
 - (3) atavistic
 - (4) aberrant
4. The following muscles are supplied by deep peroneal nerve EXCEPT
 - (1) Peroneus longus
 - (2) Tibialis anterior
 - (3) Extensor digitorum longus
 - (4) Extensor hallucis longus
5. Oblique popliteal ligament is an expansion of
 - (1) Semitendinosus
 - (2) Semimembranosus
 - (3) Adductor magnus
 - (4) Popliteus
6. The nerve passing between two heads of supinator
 - (1) Median
 - (2) Ulnar
 - (3) Posterior interosseous
 - (4) Anterior interosseous
7. Quadrangular space is bounded by all EXCEPT
 - (1) Surgical neck of humerus
 - (2) Long head of triceps
 - (3) Lateral head of triceps
 - (4) Teres major
8. All are related to mediastinal surface of right lung EXCEPT
 - (1) Superior vena cava
 - (2) Inferior vena cava
 - (3) Azygous vein
 - (4) Arch of aorta

9. Thoracic duct enters thorax by passing through opening in diaphragm at _____ level.
- | | |
|------------|------------|
| (1) T – 6 | (2) T – 8 |
| (3) T – 10 | (4) T – 12 |
10. All are signs and symptoms indicative of an extrapyramidal system lesion EXCEPT
- | | |
|-------------------|-----------------------|
| (1) Athetosis | (2) Chorea |
| (3) Hemiballismus | (4) Intention tremors |
11. Inferior thyroid artery is related closely to _____ nerve.
- | | |
|-------------------------|------------------------|
| (1) Recurrent laryngeal | (2) External laryngeal |
| (3) Internal laryngeal | (4) Vagus |
12. Submandibular gland is divided in two parts by _____ muscle.
- | | |
|-----------------|------------------|
| (1) Hypoglossus | (2) Mylohyoid |
| (3) Digastric | (4) Styloglossus |
13. Arterial supply to suprarenal gland includes branches from all EXCEPT
- | | |
|-----------------------------|---------------------|
| (1) Inferior phrenic artery | (2) Abdominal aorta |
| (3) Gonadal artery | (4) Renal artery |
14. Boundaries of epiploic foramen include all EXCEPT
- | | |
|----------------------------|----------------------------|
| (1) Inferior vena cava | (2) Caudate lobe of liver |
| (3) Fundus of gall bladder | (4) First part of duodenum |
15. Interphalangeal joint is an example of _____ joint.
- | | |
|--------------------|---------------|
| (1) Plane synovial | (2) Ellipsoid |
| (3) Hinge | (4) Saddle |
16. Fundic glands in stomach have all the following EXCEPT _____ cells.
- | | |
|--------------|-----------------|
| (1) Zymogen | (2) Kupffer |
| (3) Parietal | (4) Argentaffin |

17. Phenylketonuria results due to the absence of the enzyme
- | | |
|--------------------------------|-------------------------------|
| (1) Phenylalanine oxidase | (2) Phenylalanine hydroxylase |
| (3) Phenylalanine transaminase | (4) Phenylalanine oxygenase |
18. Which one of the following enzyme is **NOT** an antioxidant?
- | | |
|--------------------------|----------------------------|
| (1) Superoxide dismutase | (2) Lactate dehydrogenase |
| (3) Catalase | (4) Glutathione peroxidase |
19. Bile acids are derived from
- | | |
|-------------------|---------------------|
| (1) Phospholipids | (2) Triacylglycerol |
| (3) Fatty acids | (4) Cholesterol |
20. Lesch-Nyhan syndrome is caused due to the lack of the enzyme
- | | |
|-------------------------|---------------------------|
| (1) HGPRTase | (2) APRTase |
| (3) Adenosine deaminase | (4) PRPP amidotransferase |
21. Which one of the following nucleotide base is **NOT** present in codons?
- | | |
|-------------|--------------|
| (1) Adenine | (2) Guanine |
| (3) Thymine | (4) Cytosine |
22. Which one of the following statement is correct for hemoglobin?
- | |
|--|
| (1) Hb F has a decreased affinity for 2, 3 – BPG |
| (2) Hb F has $\alpha_2\delta_2$ |
| (3) Hb A ₂ appears early in the fetal life |
| (4) Hb A _{1c} differs from Hb A by single amino acid substitution |
23. Which one of the following is the transport form of iron?
- | | |
|-----------------|-------------------|
| (1) Transferrin | (2) Ferritin |
| (3) Hemosiderin | (4) Ceruloplasmin |
24. Which one of the following indicates the abnormality in Sickle cell disease?
- | |
|--|
| (1) Replacement of Glutamate by Valine at 8 th position of β globin chain |
| (2) Replacement of Valine by Glutamate at 8 th position of β globin chain |
| (3) Replacement of Valine by Glutamate at 6 th position of β globin chain |
| (4) Replacement of Glutamate by Valine at 6 th position of β globin chain |

25. Which one of the following is **NOT** a feature of Von Gierke's disease?
- | | |
|------------------------|---------------------|
| (1) Metabolic acidosis | (2) Lactic acidosis |
| (3) Hyperuricemia | (4) Hyperglycemia |
26. Pre beta lipoproteins are the same as
- | | |
|------------------|----------|
| (1) Chylomicrons | (2) VLDL |
| (3) LDL | (4) HDL |
27. An individual with Bombay blood group has the following antibodies in his serum
- | | |
|--------------|-------------------------------------|
| (1) Anti – A | (2) Anti – B |
| (3) Anti – H | (4) Anti – A, Anti – B and Anti – H |
28. Out of all the Rh blood Group system antigens, the most strongly Immunogenic antigen is
- | | |
|---------------|---------------|
| (1) C-antigen | (2) E-antigen |
| (3) D-antigen | (4) e-antigen |
29. Very rapid cell destruction associated with intra vascular haemolysis, following blood transfusion is most commonly due to
- | | |
|---------------------------------------|--------------------------------------|
| (1) Rh incompatibility | (2) ABO incompatibility |
| (3) Duffy blood group incompatibility | (4) Kell blood group incompatibility |
30. In haemolytic disease of newborn due to Rh-D incompatibility, the cord blood will show
- | | |
|-------------------------------------|-------------------------------------|
| (1) A positive Direct Coombs test | (2) A negative Direct Coombs test |
| (3) A positive Indirect Coombs test | (4) A negative Indirect Coombs test |
31. Transfusion related Graft Versus Host Disease (GVHD) is mediated by
- | | |
|-------------------------|---------------------|
| (1) Donor Macrophages | (2) Donor Monocytes |
| (3) Donor T-lymphocytes | (4) Donor basophils |

- 32. Each unit of Fresh Frozen Plasma raises Coagulation factors by**
(1) 1% (2) 2%
(3) 3% (4) 4%
- 33. A doctor in the witness box is**
(1) An expert witness (2) A ordinary witness
(3) Both ordinary and expert witness (4) Voluntary witness
- 34. Time limit for exhumation in India in**
(1) 10 Years (2) 7 Years
(3) 5 Years (4) No time limit
- 35. In permanent teeth premolars will replace**
(1) Temporary molars (2) Temporary premolars
(3) Temporary canines (4) Temporary incisors
- 36. Body tissue for histo-pathological examination are preserved in**
(1) 10% Formalin (2) Absolute alcohol
(3) 10% alcohol (4) Saturated solution of common salt
- 37. 'Tentative cuts' are seen in**
(1) Homicidal injuries (2) Suicidal injuries
(3) Accidental injuries (4) All of the above
- 38. Cause of death in 'cafe coronary' is**
(1) Acute myocardial infarction
(2) Laryngeal spasm
(3) Choking by solid or semisolid material
(4) Hypertension

39. Professional death sentence can be passed by
- | | |
|---------------------------|---------------------|
| (1) Consumer Court | (2) Supreme Court |
| (3) State Medical Council | (4) Health Minister |
40. Alcohol is predominantly absorbed from
- | | |
|-------------|---------------------|
| (1) Stomach | (2) Large intestine |
| (3) Caecum | (4) Small intestine |
41. 'Acrodynia' is seen in poisoning with
- | | |
|----------------------|-------------|
| (1) White phosphorus | (2) Arsenic |
| (3) Mercury | (4) Copper |
42. Copper sulphate as an antidote is given in the treatment of
- | | |
|-----------------------|---------------------------|
| (1) Cyanide poisoning | (2) Phosphorous poisoning |
| (3) Arsenic poisoning | (4) None of the above |
43. The bacteria which is motile at 25°C but non-motile at 37°C is
- | | |
|----------------------------|------------------------|
| (1) Clostridium tetani | (2) Bacillus anthracis |
| (3) Listeria monocytogenes | (4) Bacillus subtilis |
44. Toxin production during bacterial growth occurs in
- | | |
|----------------------|----------------------|
| (1) Lag phase | (2) Log phase |
| (3) Stationary phase | (4) Phase of decline |
45. Endotoxins belong to a class of biological molecules called
- | | |
|-------------------------|-------------------------|
| (1) Mucopolysaccharides | (2) Lipopolysaccharides |
| (3) Peptidoglycans | (4) Nucleic acid |

46. What is common in Immunoglobulin G (IgG) and Immunoglobulin M (IgM) out of the following properties?

- | | |
|--------------------------|-------------------------|
| (1) Serum concentration | (2) Present in milk |
| (3) Sediment coefficient | (4) Complement fixation |

47. Complement binding site on the heavy chain of IgG is

- | | |
|---------|------------------|
| (1) CH3 | (2) CH1 |
| (3) CH2 | (4) Hinge region |

48. DiGeorge's syndrome is due to

- | | |
|-----------------------|-----------------------|
| (1) T cell defect | (2) B cell defect |
| (3) Macrophage defect | (4) Neutrophil defect |

49. Neonatal meningitis is commonly caused due to

- | | |
|----------------------------------|----------------------------------|
| (1) <i>Staphylococcus aureus</i> | (2) <i>Streptococcus Group A</i> |
| (3) <i>Streptococcus Group B</i> | (4) <i>Streptococcus Group D</i> |

50. Traveller's diarrhoea is caused by

- | | |
|-----------------------------------|--------------------------------------|
| (1) Enterotoxigenic <i>E.coli</i> | (2) Enteropathogenic <i>E.coli</i> |
| (3) Enteroinvasive <i>E.coli</i> | (4) Enterohaemorrhagic <i>E.coli</i> |

51. Diphtheria toxin acts by inhibiting

- | | |
|----------------|-------------------------|
| (1) DNA gyrase | (2) Cell wall synthesis |
| (3) Cyclic AMP | (4) Protein synthesis |

52. Weil Felix test can diagnose all of the following EXCEPT
- | | |
|-------------------------|------------------|
| (1) Epidemic typhus | (2) Q Fever |
| (3) Spotted fever group | (4) Scrub typhus |
53. Epstein-Barr Virus (EBV) is associated with
- | | |
|------------------------------|---------------------------|
| (1) Burkitt's lymphoma | (2) Cervical cancer |
| (3) Hepatocellular carcinoma | (4) Adult T cell leukemia |
54. 24 years old (hepatitis B surface antigen positive) HBsAg positive women gave birth to a full term baby. Which of the following therapies will most likely minimize the transmission of the infection to the child?
- | |
|--|
| (1) Administer hepatitis B immunoglobulin to child |
| (2) Administer hepatitis B immunoglobulin and hepatitis B vaccine to the child |
| (3) Administer hepatitis B vaccine to child |
| (4) Administer Interferon alpha along with lamuvidine, drugs used for treatment of Hepatitis B |
55. The following is a dimorphic fungus
- | | |
|-------------------------------------|----------------------------------|
| (1) <i>Blastomyces dermatitidis</i> | (2) <i>Candida albicans</i> |
| (3) <i>Mucor</i> | (4) <i>Rhinosporidium seebri</i> |
56. The following dermatophyte can infect hair, nails and skin
- | | |
|--------------------|-------------------------|
| (1) Epidermophyton | (2) Trichophyton |
| (3) Microsporum | (4) Chromoblastomycosis |
57. Poisoning in which a fungus eaten for itself causes toxic effects is known as
- | | |
|-------------------|---------------------|
| (1) Mycotoxicosis | (2) Aflatoxicosis |
| (3) Mycetism | (4) Ergototoxicosis |
58. The first mycobacterium described was
- | | |
|--------------------------------|----------------------------|
| (1) Mycobacterium tuberculosis | (2) Mycobacterium ulcerans |
| (3) Mycobacterium balnei | (4) Mycobacterium leprae |

59. *Acanthamoeba* produces
- (1) Primary amoebic meningoencephalitis
 - (2) Granulomatous amoebic hepatitis
 - (3) Lung abscess
 - (4) Liver abscess
60. Only young trophozoites and gametocytes are usually demonstrable in the peripheral blood of a patient with
- (1) *Plasmodium vivax*
 - (2) *Plasmodium malariae*
 - (3) *Plasmodium falciparum*
 - (4) *Plasmodium ovale*
61. Cysticercosis is caused by
- (1) *Taenia solium*
 - (2) *Taenia saginata*
 - (3) *Hymenolepis nana*
 - (4) *Echinococcus granulosus*
62. The following parasite is transmitted from cat
- (1) *Isospora belli*
 - (2) *Cryptosporidium*
 - (3) *Toxoplasma gondii*
 - (4) *Microsporidium*
63. The following is not true of Hepatitis E
- (1) It is a calicivirus
 - (2) It resembles Hepatitis A epidemiologically
 - (3) It has high mortality in pregnant women
 - (4) It leads to a chronic carrier state
64. What percentage of Down syndrome patients are mosaics with a mixture of 46 and 47 chromosomes?
- (1) 1%
 - (2) 10%
 - (3) 20%
 - (4) 4%
65. Werner syndrome is characterised by
- (1) Defect in DNA polymerase and impaired cell replication
 - (2) Defect in telomerase and predisposition to cancer
 - (3) Defect in transcription with accumulation of abnormal proteins
 - (4) Defect in DNA helicase and premature aging

66. The Caspases are divided functionally into
- (1) Initiators and executioners
 - (2) Initiators and terminators
 - (3) Executors and terminators
 - (4) Promoters and terminators
67. The most efficient bactericidal system in neutrophils is
- (1) The nitric oxide system
 - (2) The peroxynitrate system
 - (3) The H_2O_2 -MPO halide system
 - (4) The Superoxide system
68. The richest sources of histamine are
- (1) Basophils
 - (2) Neutrophils
 - (3) Eosinophils
 - (4) Mast cells
69. Neutral proteases degrade
- (1) Intracellular intralysosomal constituents
 - (2) Intracellular extralysosomal constituents
 - (3) Extracellular constituents
 - (4) Both (2) and (3)
70. Secondary tuberculosis classically involves
- (1) The apices of the lungs
 - (2) The bases of the lungs
 - (3) The upper part of the lower lobe and the lower part of the upper lobe
 - (4) The entire lung
71. NRAMP1 has the following function
- (1) Pumps monovalent cations into the lysosome
 - (2) Pumps monovalent cations out of the lysosome
 - (3) Pumps divalent cations into the lysosome
 - (4) Pumps divalent cations out of the lysosome
72. Temporal arteritis is also known as
- (1) Giant cell arteritis
 - (2) Takayasu's arteritis
 - (3) Microscopic polyangiitis
 - (4) Kawasaki's disease
73. Paracortical hyperplasia of reactive lymphnode occurs because of
- (1) Triggering of B cell immunity
 - (2) Triggering of macrophages
 - (3) Triggering of T cell immunity
 - (4) Triggering of the mast cell response

74. All the following viruses are known to cause lymphomas EXCEPT
- (1) Human T cell Leukemia Virus (HTLV – 1)
 - (2) Epstein Barr Virus (EBV)
 - (3) Japanese Encephalitis (JE) virus
 - (4) Kaposi Sarcoma Herpes Virus/ Human Herpes Virus 8 (KSHV/ HHV-8)
75. The most common Plasma Cell Dyscrasia is
- (1) Solitary plasmacytoma
 - (2) Monoclonal Gammopathy of Uncertain Significance (MGUS)
 - (3) Multiple Myeloma
 - (4) Heavy chain disease
76. In Multiple Myeloma, the presence of globular inclusions in the cytoplasm is known as
- (1) Dutcher bodies
 - (2) Mott bodies
 - (3) Russell bodies
 - (4) Myeloma bodies
77. Heart failure cells are seen in
- (1) Heart
 - (2) Liver
 - (3) Kidney
 - (4) Lung
78. Charcot Leyden crystals are seen in sputum in
- (1) Bronchiectasis
 - (2) Chronic bronchitis
 - (3) Chronic emphysema
 - (4) Bronchial asthma
79. The Azzopardi effect is seen in
- (1) Large cell carcinoma lung
 - (2) Adenocarcinoma lung
 - (3) Squamous cell carcinoma lung
 - (4) Small cell carcinoma lung
80. Horner's syndrome includes all the following EXCEPT
- (1) Exophthalmus
 - (2) Ptosis
 - (3) Anhidrosis
 - (4) Miosis
81. The most common type of primary gastric lymphoma is
- (1) MALTomas
 - (2) Diffuse large β cell Lymphoma
 - (3) Follicular Lymphoma
 - (4) Burkitt Lymphoma

- 82. All of the following are features of Crohns disease EXCEPT**
- (1) Predominantly rectal and colonic disease
 - (2) Fissures
 - (3) Non caseating granulomas
 - (4) Paneth cell metaplasia
- 83. The virus which can commonly cause chronic hepatitis is**
- (1) Hepatitis A
 - (2) Hepatitis B
 - (3) Hepatitis E
 - (4) Hepatitis G
- 84. Crescents are produced because of**
- (1) Proliferation of parietal epithelial cells
 - (2) Infiltration by monocytes and macrophages
 - (3) Both (1) and (2)
 - (4) None of the above
- 85. Familial renal cell carcinoma is associated with**
- (1) Turners syndrome
 - (2) Alports syndrome
 - (3) Peutz–jeghers syndrome
 - (4) Von hippel lindau syndrome
- 86. The most common type of testicular neoplams seen in infants are**
- (1) Seminomas
 - (2) Yolk sac tumours
 - (3) Teratomas
 - (4) Choriocarcinomas
- 87. The grading system used for prostatic cancer is**
- (1) McKinleys system
 - (2) Dukes system
 - (3) Gleasons system
 - (4) Levensons system
- 88. Amyloid deposition is seen in which thyroid malignancy**
- (1) Papillary carcinoma of thyroid
 - (2) Follicular carcinoma of thyroid
 - (3) Anaplastic carcinoma of thyroid
 - (4) Medullary carcinoma of thyroid
- 89. Therapeutic index of a drug is an indicator of its**
- (1) Potency
 - (2) Efficacy
 - (3) Safety
 - (4) Action

90. Time taken for a drug to reach plateau level in plasma after repeated doses depends upon its
- | | |
|----------------------------|---------------------|
| (1) Plasma half life | (2) Bioavailability |
| (3) Volume of distribution | (4) Renal clearance |
91. Which insulin has the same amino acid sequence as endogenous human insulin?
- | | |
|--------------------|-----------------------|
| (1) Insulin aspart | (2) Insulin lispro |
| (3) Insulin R | (4) Insulin glulisine |
92. Which of the following ergot compounds is commonly used in dementia?
- | | |
|-------------------|------------------|
| (1) Bromocriptine | (2) Ergotamine |
| (3) Methysergide | (4) Codergocrine |
93. The best drug for treating anaerobic infections is
- | | |
|----------------|-------------------|
| (1) Aztreonam | (2) Metronidazole |
| (3) Gentamicin | (4) Ciproflaxacin |
94. Ropinirole is most useful in the treatment of
- | | |
|----------------------------|--------------------------|
| (1) Wilson's disease | (2) Parkinson's disease |
| (3) Carpal tunnel syndrome | (4) Trigeminal neuralgia |
95. Methotrexate poisoning is treated with
- | | |
|----------------|--------------------|
| (1) Folic acid | (2) Folinic acid |
| (3) Riboflavin | (4) Cyanacobalamin |
96. Aspirin is contraindicated in children suffering from influenza because of the risk of
- | | |
|----------------------|----------------------|
| (1) Gastric bleeding | (2) Thrombocytopenia |
| (3) Fanconi syndrome | (4) Reye's syndrome |
97. Second gas effect is exerted by which of the following gases when co-administered with halothane?
- | | |
|------------------|-------------------|
| (1) Cyclopropane | (2) Helium |
| (3) Nitrogen | (4) Nitrous oxide |

- 98. Fully humanized antibody used in the treatment of rheumatoid arthritis is**
- | | |
|----------------|-----------------|
| (1) Anakinra | (2) Adalimumab |
| (3) Infliximab | (4) Leflunomide |
- 99. Prolonged lithium therapy causes**
- | | |
|------------------------|------------------|
| (1) Diabetes insipidus | (2) Osteoporosis |
| (3) Parkinsonism | (4) Gout |
- 100. The diuretic that can cause gynaecomastia, hirsutism and menstrual disturbances as side effect on long term use is**
- | | |
|----------------|--------------------|
| (1) Amiloride | (2) Acetazolamide |
| (3) Metolazone | (4) Spironolactone |
- 101. Ondansetron acts by inhibiting which of the following receptors?**
- | | |
|-----------|-----------|
| (1) 5HT 1 | (2) 5HT 2 |
| (3) 5HT 3 | (4) 5HT 4 |
- 102. Antifungal drug that is used orally for onchomycosis is**
- | | |
|--------------------|-----------------|
| (1) Amphotericin B | (2) Butenafine |
| (3) Clotrimazole | (4) Terbinafine |
- 103. Abciximab is a**
- | | |
|------------------------------------|---------------------------------|
| (1) IIb/IIIa glycoprotein antibody | (2) Ib/IX glycoprotein antibody |
| (3) Topoisomerase inhibitor | (4) Adenosine inhibitor |
- 104. All of the following are protease inhibitors EXCEPT**
- | | |
|----------------|----------------|
| (1) Nelfinavir | (2) Saquinavir |
| (3) Abacavir | (4) Ritonavir |
- 105. Absence seizure is treated with**
- | | |
|--------------------|------------------|
| (1) Phenobarbitone | (2) Ethosuximide |
| (3) Diazepam | (4) Phenytoin |

106. Which of the following is NOT used in acute asthma?

- | | |
|-----------------|--------------------|
| (1) Salbutamol | (2) Hydrocortisone |
| (3) Montelukast | (4) Aminophylline |

107. Drug useful in hepatic encephalopathy is

- | | |
|-----------------------|---------------------|
| (1) Magnesium sulfate | (2) Lactulose |
| (3) Bisacodyl | (4) Bisphosphonates |

108. Drug of choice for early mushroom poisoning is

- | | |
|-------------------|-----------------|
| (1) Atropine | (2) Neostigmine |
| (3) Physostigmine | (4) Adrenaline |

109. The calcium channel blocker used in subarachnoid haemorrhage is

- | | |
|----------------|------------------|
| (1) Nimodipine | (2) Benidipine |
| (3) Nifedipine | (4) Nitrendipine |

110. The maximum amount of glycogen in a healthy adult can be stored in

- | | |
|---------------------|------------------|
| (1) Skeletal muscle | (2) Hepatocytes |
| (3) Renal cells | (4) Erythrocytes |

111. The nuclear membrane of eukaryotic cells

- (1) is one bilayer membrane
- (2) is composed of two separate single layer membranes
- (3) is always fused with the membrane of the nucleolus
- (4) is composed of two separate bilayer membranes

112. The RNA codon for 'Chain Initiation' is

- | | |
|---------|---------|
| (1) AAA | (2) AUG |
| (3) AAG | (4) AUU |

113. Sodium ions usually do not pass through potassium channels because
- (1) Sodium ions are larger in size than potassium ions
 - (2) Hydrated potassium ions are smaller than hydrated sodium ions
 - (3) They are repelled by positive charges lining the potassium channels
 - (4) Carbonyl Oxygens lining potassium channels cannot interact with sodium ions
114. The chances of calcium phosphate crystals precipitating throughout the body become likely when the levels of calcium in blood exceed
- (1) 12 mg/dl
 - (2) 15 mg/dl
 - (3) 17 mg/dl
 - (4) 19 mg/dl
115. Which of the following hormones uses Phospholipase C as second messenger?
- (1) Angiotensin II
 - (2) Glucagon
 - (3) Calcitonin
 - (4) All of above
116. Evaporation of one gram of water in sweat from the surface of the skin results in a heat loss of
- (1) 0.28 kcal
 - (2) 0.38 kcal
 - (3) 0.48 kcal
 - (4) 0.58 kcal
117. Under resting conditions, the predominant ion in saliva is
- (1) Sodium
 - (2) Hydrogen
 - (3) Chloride
 - (4) Bicarbonate
118. Cerebral blood flow begins to increase once the cerebral tissue PO_2 falls below about
- (1) 60 mmHg
 - (2) 50 mmHg
 - (3) 40 mmHg
 - (4) 30 mmHg
119. One decibel represents an actual increase of sound energy by
- (1) 1 times
 - (2) 1.26 times
 - (3) 10 times
 - (4) 12.6 times
120. Approximately two thirds of the refractive power of the normal human eye is provided by
- (1) The cornea
 - (2) Aqueous humor
 - (3) Anterior curvature of the lens
 - (4) Posterior curvature of the lens
-

121. The acute safety pressure against pulmonary oedema is approximately
- | | |
|-------------|-------------|
| (1) 15 mmHg | (2) 17 mmHg |
| (3) 19 mmHg | (4) 21 mmHg |
122. For any substance to be antigenic it should have a molecular weight equal to or more than
- | | |
|-----------|-----------|
| (1) 8000 | (2) 9000 |
| (3) 10000 | (4) 11000 |
123. Within 1-2 hours of consuming a high protein diet causes the following effect on the glomerular filtration rate (GFR) and renal blood flow
- | |
|---|
| (1) Renal blood flow increases but GFR remains the same |
| (2) GFR and renal blood flow both decrease |
| (3) Renal blood flow decreases but GFR remains the same |
| (4) Both renal blood flow and GFR increase |
124. Which of the following statements about insensible water loss through the skin is true?
- | |
|--|
| (1) Occurs even in people born without sweat glands |
| (2) Depends completely on the phenomenon of sweating |
| (3) Averages about 50-100 ml per day |
| (4) Is unaffected in patients with extensive burns |
125. Dihydropyridine receptors in skeletal muscles
- | |
|--|
| (1) are Calcium release channels in the Sarcoplasmic reticulum |
| (2) sense voltage change in the T tubules |
| (3) are receptors for acetylcholine at the neuro-muscular junction |
| (4) function as sarcoplasmic calcium pumps |
126. Who among the following is acknowledged as the first great Indian Physician and Teacher?
- | | |
|-------------|---------------|
| (1) Atreya | (2) Charaka |
| (3) Susruta | (4) Vaghbhatt |
127. Which one of the following is not a socio-economic indicator?
- | | |
|------------------------------|-------------------|
| (1) Level of unemployment | (2) Literacy rate |
| (3) Life expectancy at birth | (4) Family size |
-

128. Which one of the following is inactivated or killed vaccine?

- | | |
|-----------------|-----------------|
| (1) BCG | (2) Chicken pox |
| (3) Hepatitis B | (4) Measles |

129. For how much population, RNTCP-Designated Microscopy Centre is established in tribal/mountaneous area?

- | | |
|------------|-----------|
| (1) 100000 | (2) 50000 |
| (3) 25000 | (4) 30000 |

130. Which one of the following antitubercular drugs is bactericidal?

- | | |
|------------------|-----------------|
| (1) Thiacetazone | (2) INH |
| (3) Ethambutol | (4) Cycloserine |

131. Which of the following is not true about Sabin Polio Vaccine?

- (1) Given orally
- (2) Immunity is both humoral and intestinal
- (3) Killed formalized virus
- (4) Can be effectively used in controlling epidemics

132. Specificity can be defined as the ability of a test to identify

- | | |
|-------------------|--------------------|
| (1) True positive | (2) False positive |
| (3) True negative | (4) False negative |

133. Which of the following is not a surface water?

- | | |
|-----------|-------------|
| (1) River | (2) Springs |
| (3) Tanks | (4) Lakes |

134. Which of the following is the most effective form of chlorine for water disinfection?

- | | |
|-----------------------|-----------------------|
| (1) Hypochlorous acid | (2) Hypochlorite ion |
| (3) Hydrogen ions | (4) Hydrochloric acid |

135. All are best indicators of air pollution EXCEPT

- | | |
|-----------------------|-------------------------|
| (1) Hydrogen sulphide | (2) Sulphur dioxide |
| (3) Smoke | (4) Suspended particles |

136. The measuring unit for loudness is

- | | |
|--------------------|------------------|
| (1) Hertz (Hz) | (2) Decibel (dB) |
| (3) Becquerel (Bq) | (4) Lux |

137. Which one of the following is organophosphorus insecticides?

- | | |
|---------------|--------------|
| (1) Malathion | (2) Lindane |
| (3) DDT | (4) Dieldrin |

138. The single most sensitive tool for evaluating the iron state is by measurement of

- | | |
|-----------------------------|----------------------------------|
| (1) Serum ferritin | (2) Serum iron concentrate |
| (3) Haemoglobin concentrate | (4) Serum transferrin saturation |

139. Kuppuswamy socio-economic status scale variables are

- (1) Education, occupation and family income
- (2) Education, caste and occupation
- (3) Education, residential address and income
- (4) Education, residential address and occupation

140. Most common and effective channel of communication is

- | | |
|---------------------------------|----------------|
| (1) Mass media | (2) Folk media |
| (3) Interpersonal communication | (4) Skits |

141. The theme for World Health Day 2012 is

- (1) Working together for health
- (2) Ageing and health
- (3) Make every mother and child count
- (4) No action today no cure tomorrow

142. The particles of the droplet nuclei range from

- | | |
|--------------------|--------------------|
| (1) 0.1 – 1 micron | (2) 1 – 10 micron |
| (3) 11 – 20 micron | (4) 21 – 30 micron |

143. *Ascaris lumbricoides* lives in the lumen of
- | | |
|---------------------|----------------------|
| (1) Small intestine | (2) Large intestine |
| (3) Gall bladder | (4) Common bile duct |
144. Softening of water is recommended when hardness exceeds
- | | |
|--------------|--------------|
| (1) 1 m Eq/L | (2) 2 m Eq/L |
| (3) 3 m Eq/L | (4) 4 m Eq/L |
145. As per colour coding and type of containers for disposal of Biomedical wastes, Yellow plastic bags are used for which waste categories?
- | | |
|----------------|--------------|
| (1) 3, 6, 7 | (2) 5, 9, 10 |
| (3) 1, 2, 3, 6 | (4) 4, 7 |
146. Swajaldhara, a community led participatory programme was launched in the year
- | | |
|----------|----------|
| (1) 2000 | (2) 2001 |
| (3) 2002 | (4) 2003 |
147. The test widely used to check the efficiency of milk pasteurization is
- | | |
|-------------------------|-------------------|
| (1) Phosphatase Test | (2) Gerber's Test |
| (3) Methylene Blue Test | (4) Steeping Test |
148. Roll Back Malaria (RBM) program was launched in which year?
- | | |
|----------|----------|
| (1) 1998 | (2) 1999 |
| (3) 2000 | (4) 2001 |
149. The single most common cause of blindness in India is
- | | |
|--------------------------|----------------------|
| (1) Vitamin A deficiency | (2) Glaucoma |
| (3) Cataract | (4) Refractive Error |
150. Which of the following committees recommended that health care should be provided within the community itself through specially trained workers?
- | | |
|----------------------------|---------------------------|
| (1) Kartar Singh Committee | (2) Bhore Committee |
| (3) Jungalwalla Committee | (4) Shrivastava Committee |

Space For Rough Work

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