

81/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Which of the following is not a component of rotator cuff?  
(A) Supraspinatus (B) Infraspinatus  
(C) Teres major (D) Teres minor
2. Perichondrium is absent in :  
(A) Cricoid cartilage (B) Articular cartilage  
(C) Cuneiform cartilage (D) Nasal cartilage
3. Nerve supply of Arrector pilorum muscle is :  
(A) Cholinergic parasympathetic (B) Cholinergic sympathetic  
(C) Somatic nerves (D) Adrenergic sympathetic
4. Blood brain barrier is absent in :  
(A) Pineal body (B) Mamillary body  
(C) Lateral geniculate body (D) All the above
5. Rate limiting enzyme of fatty acid synthesis is :  
(A) Acetyl transacylase (B) Condensing enzyme  
(C) Acetyl CoA Carboxylase (D) Malonyl transacylase
6. Sixth Carbon atom of Purine ring is derived from :  
(A) Glycine (B) Respiratory CO<sub>2</sub>  
(C) Glutamine (D) Aspartate
7. Normal Serum Calcium level is :  
(A) 2.1 – 2.5 mmol/L (B) 4 – 6 nmol/L  
(C) 6 – 8 mg/dl (D) 9 – 11 mEq/L
8. One milligram of Nicotinic acid is equivalent to :  
(A) 30 mg of Tryptophan (B) 40 mg of Tryptophan  
(C) 50 mg of Tryptophan (D) 60 mg of Tryptophan

A

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[P.T.O.]

9. Among the listed abnormalities, which is not seen in Cerebellar dysfunction?  
(A) Hypotonia (B) Adiadokokinesia  
(C) Resting tremor (D) Drunken gait
10. All is true about Duchenne's Muscular Dystrophy, Except :  
(A) It is a metabolic myopathy  
(B) X-linked and usually fatal by 30 yrs of age  
(C) Dystrophin protein is absent from the muscle  
(D) Dystrophin replaced by Utropin can be helpful in this condition
11. Which is true about Pendred's syndrome?  
(A) It is an example of non-syndromic deafness  
(B) It causes deafness and goiter  
(C) It is due to the mutation of  $K^+$  channel protein  
(D) It causes deafness and renal manifestation
12. The Extrinsic system of clotting mechanism is triggered by the release of :  
(A) Tissue Thromboplastin (B) Factor VII  
(C) Factor XII (D)  $Ca^{2+}$
13. Section 319 of Indian Penal Code (IPC) deals with :  
(A) Grievous hurt (B) Hurt  
(C) Injury (D) Murder
14. The minimum age at which an individual attains criminal responsibility is :  
(A) 18 years (B) 12 years  
(C) 7 years (D) 5 years
15. The wound which is terminating in a body cavity is termed as :  
(A) Fabricated wound (B) Penetrating wound  
(C) Perforating wound (D) Punctured wound
16. The term MERMER is related to :  
(A) Brain fingerprinting (B) DNA fingerprinting  
(C) Narco-analysis (D) Polygraph test

17. "Side chain theory" of antibody production is proposed by :  
 (A) Paul Ehrlich (B) Louis Pasteur  
 (C) Joseph Lister (D) Frenkel
18. "Neufeld reaction" is used to demonstrate the presence of :  
 (A) Capsule (B) Flagella  
 (C) Fimbriae (D) Spore
19. Example of microaerophilic bacteria is :  
 (A) Streptococcus pneumonia (B) Campylobacter jejuni  
 (C) Citrobacter freundii (D) Edwardsiella tarda
20. Which of the following is a diploid cell line?  
 (A) He la (B) WI-38  
 (C) Mc Coy (D) BHK-21
21. CD 10 is not a marker for which of the following?  
 (A) Burkitt's Lymphoma (B) Lymphoblastic Lymphoma  
 (C) Mantle cell Lymphoma (D) Endometrial Stromal Sarcoma
22. Feathery degeneration is characteristic of :  
 (A) Alcoholic liver disease (B) Non-alcoholic steatohepatitis  
 (C) Chronic Cholestasis (D) Reye's Syndrome
23. Increased chromosomal breakage is characteristic of :  
 (A) Fanconi's Syndrome (B) Bloom Syndrome  
 (C) Dyskeratosis Congenita (D) Schwachman-Diamond Syndrome
24. Schiller-Dural bodies are seen in :  
 (A) Embryonal carcinoma (B) Yolk-Sac tumour  
 (C) Dysgerminoma (D) Immature teratoma
25. The following are prodrugs Except :  
 (A) Captopril (B) Enalapril  
 (C) Perindopril (D) Ramipril
26. Non selective  $\beta$  blockers are to be avoided in which of the following condition :  
 (A) Glaucoma (B) Hyperthyroidism  
 (C) Arrhythmia (D) Bronchial Asthma

27. The drug having narrow therapeutic index is :
- (A) Ampicillin (B) Diazepam  
(C) Lithium (D) Paracetamol
28. The drug with antiplatelet activity is :
- (A) Reviparin (B) Clopidogrel  
(C) Streptokinase (D) Warfarin
29. In prevention of accidents wearing helmet is:
- (A) Primordial prevention (B) Primary prevention  
(C) Secondary prevention (D) Tertiary prevention
30. The index case in an out break is :
- (A) First reported case (B) First incident case  
(C) Last reported case (D) Last incident case
31. The ability of a screening test to detect all true positive cases :
- (A) positive predictive value (B) negative predictive value  
(C) sensitivity (D) specificity
32. The cyclo development phase is seen in the transmission of the agent :
- (A) P. Vivax (B) Japanese encephalitis virus  
(C) W. bancrofti (D) Dengue virus
33. Which of the following is not a hereditary disease?
- (A) Retinitis Pigmentosa (B) Retinopathy of Prematurity  
(C) Stargardt's Disease (D) Lebers Congenital Amaurosis
34. Lisch nodules are seen in :
- (A) Tuberos Sclerosis (B) Retinoblastoma  
(C) Granulomatous Uveitis (D) Neurofibromatosis
35. Most useful route of administration of antibiotics in the management of Post cataract surgery endophthalmitis is :
- (A) Intravitreal (B) Intravenous  
(C) Subconjunctival (D) Topical

36. Which of the following corneal dystrophies are primarily endothelial?  
(A) Reis buckler (B) Lattice  
(C) Fuch's (D) Granular
37. Ozaena is related to :  
(A) Rhinosporidiosis (B) Rhinophyma  
(C) Atrophic rhinitis (D) Rhinitis Medicamentosa
38. Gradenigo's syndrome is related to :  
(A) Petrositis  
(B) Oedema and discoloration over mastoid area  
(C) Bell's palsy  
(D) CSF otorrhea
39. Reinke's space is seen in :  
(A) Middle Meatus (B) Larynx  
(C) Periton-Sillar region (D) Middle Ear
40. Eagle's syndrome is related to :  
(A) Herpes zoster (B) Facial palsy  
(C) Trigeminal pain (D) Stylalgia
41. Which of the following is not a hypersensitivity reaction to tuberculous infection?  
(A) Erythemanodosum (B) Phlyctenular conjunctivitis  
(C) Dactylitis (D) Pericarditis
42. What will be the blood volume in a healthy male person weighing 60 kg?  
(A) 2500 ml (B) 3000 ml  
(C) 3500 ml (D) 4000 ml
43. 45 yr old male comes with profuse watery diarrhoea and recurrent vomiting following food intake from a restaurant 5 hours back. What is the likely organism that is responsible for his illness?  
(A) Enterotoxin producing microorganisms (B) Enteroadherent bacteria  
(C) Cytotoxin producing bacteria (D) Enteroinvasive microorganism
44. Which of the following is the cause of hyperkalemic distal renal tubular acidosis?  
(A) Amyloidosis (B) Hyper para thyroidism  
(C) SLE (D) Addisons disease

45. A 45 yrs old man involved in a car accident and admitted in ICU following an emergency laparotomy developed irrelevant talk, altered sensorium and agitation on the third post operative day. On examination, he has disorientation and impaired recent memory along with visual hallucinations. The most probable diagnosis in this patient is :
- (A) Substance induced psychosis (B) Claustrophobia  
(C) Alcohol withdrawal delirium (D) Post traumatic stress disorder
46. Which of the following drugs is not used in the treatment of attention deficit hyperactivity disorder in children?
- (A) Atomoxetine (B) Clonidine  
(C) Methyl phenidate (D) Phenobarbitone
47. Which one of the following statement is false regarding suicide?
- (A) Suicidality runs in family  
(B) Those who commit suicide will never communicate suicidal ideas  
(C) 10% of schizophrenics die by suicide  
(D) ECT is indicated in severely depressed with suicidal risk
48. All of the following are true except :
- (A) All Schizophrenics cannot make a valid will or consent  
(B) Rett's syndrome is reported only in girls  
(C) Antipsychotic use can cause akathisia  
(D) Cyclothymia is a disorder of mood
49. Mean head to body delivery time in normal birth is :
- (A) 50 seconds (B) 79 seconds  
(C) 24 seconds (D) 42 seconds
50. Karyotype in partial mole :
- (A) 46 xxy (B) 69 xx  
(C) 69 xxy (D) 46 xy
51. Heparin belongs to FDA category :
- (A) A (B) B  
(C) C (D) D
52. Spinnelli's operation is done in :
- (A) Traumatic PPH (B) Chronic Puerperal Inversion  
(C) Placenta Accrete (D) Atonic PPH

53. Molluscum contagiosum is caused by :
- (A) Pox virus (B) Herpes virus  
(C) Human papilloma virus (D) Adeno virus
54. Ecthyma gangrenosum is the cutaneous manifestation of septicaemia due to :
- (A) Pseudomonas aeruginosa (B) Staphylococcus aureus  
(C) Trypanema pallidum (D) Haemophilus ducreyi
55. Dimple sign is seen in :
- (A) Psoriasis (B) Lichen planus  
(C) Dermatofibroma (D) Lupus vulgaris
56. Koebner phenomenon is seen in all of these diseases except :
- (A) Psoriasis (B) Lichen nitidus  
(C) Vitiligo (D) Neurofibroma
57. Sistrunk's operation is done for :
- (A) Benign parotid tumor (B) Branchial cyst  
(C) Thyroglossal fistula (D) Fistula-in-ano
58. About Pheochromocytoma all the following statements are true except :
- (A) It is found in about 2% of patients with hypertension  
(B) It may be associated with MEN2a syndrome  
(C) Most Pheochromocytomas occur sporadically  
(D) Cytologic findings cannot be used to differentiate benign from malignant pheochromocytoma
59. The Thyroiditis which mimic carcinoma thyroid is :
- (A) Acute suppurative thyroiditis (B) Subacute thyroiditis  
(C) Hashimoto's thyroiditis (D) Riedel's thyroiditis
60. Which of the following statements regarding gastric ulcer is incorrect?
- (A) Type I ulcers are the most common variety and 95% are seen on the lesser curve  
(B) Type II ulcers are also known as, prepyloric ulcers  
(C) Risk of malignant change is very high in type II gastric ulcers  
(D) Type III ulcers occur in the antral region

61. Most common complication of colle's fracture :
- (A) Malunion (B) Stiffness  
(C) Carpel Tunnel syndrome (D) Nonunion
62. Holstein Levis syndrome is associated with :
- (A) Axillary nerve (B) Ulnar nerve  
(C) Radial nerve (D) Median nerve
63. Pavlik Harness is used in the treatment of :
- (A) Slipped capital femoral epiphysis (B) Perthes disease  
(C) CTEV (D) CDH
64. "Fallen fragment sign" seen in :
- (A) Simple Bone cyst (B) Giant cell tumour  
(C) Aneurysmal Bone cyst (D) Osteochondroma
65. In a PTB (Patellar Tendon Bearing) socket, all of the following are pressure tolerant areas except :
- (A) Patellar tendon (B) Gastronemius  
(C) Fibular head (D) Medial tibial flare
66. In a middle aged man with Achilles Enthesitis the following footwear modification may be most useful :
- (A) Inner soft MCR heel insert (B) Soft cushion heel with relief  
(C) Medial arch (D) Heel lift
67. A 60 year old man presented with numbness which radiated from his right thigh to the ball of his toe. He noticed pain within 20 minutes of standing which was relieved with sitting. He has a history of Adult onset diabetes mellitus which is well controlled. Physical examination revealed brisk tendon reflexes, normal vitals, down going plantar responses, no muscle atrophy and he was able to walk on his toes and heel. Strength was normal except for right toe raises. His NCVs revealed normal sensory latencies, right tibial CMAP was 40% lower than left, right paraspinals EMG revealed mild abnormality, his right H reflex was 3 ms slower than the left, the most appropriate diagnosis would be :
- (A) Diabetic amyotrophy  
(B) Hereditary sensory motor neuropathy  
(C) Spinal canal stenosis with S1 radiculopathy  
(D) Demyelinating motor neuropathy

68. A 26 year old young man presented to your rehab unit 3 weeks after traumatic brain injury, he had 2 episodes of seizures following the trauma, he was on tracheostomy, Foleys catheter and Ryles tube. He has generalized response to pain and occasional eye opening only, his MRI brain revealed features of Diffuse Axonal injury and resolving SAH. What would be the most appropriate rehab measures for this young man, in addition to general supportive care, basic ROM exercises and tilting?
- (A) Glasgow outcome scale, Phenobarbitone and body unweighted treadmill training  
 (B) Glasgow outcome scale, Carbamazepine and sensorymotor stimulation  
 (C) Ranchos los Amigos scale, Carbamazepine and body unweighted treadmill training  
 (D) Ranchos los Amigos scale, Clonazepam and sensory motor stimulation
69. 'World cancer day' is on :
- (A) 7<sup>th</sup> April (B) 4<sup>th</sup> February  
 (C) 31<sup>st</sup> May (D) 1<sup>st</sup> December
70. Which of the following malignancy is mostly associated with Human Papilloma virus and can be prevented by vaccine?
- (A) carcinoma thyroid (B) carcinoma breast  
 (C) carcinoma lung (D) carcinoma cervix
71. All of the following statements are correct regarding the mechanism of radiation cell kill, except :
- (A) Radiation causes breaks in the DNA  
 (B) Radiation generates free radicals from cell water that may damage cell organelles  
 (C) Sulfhydryl compounds produced by radiation augment cell damage  
 (D) Augmentation of oxygen is the basis for radiation sensitization
72. Radionuclide used to treat thyroid cancer is :
- (A) Iodine 131 (B) Strontium 89  
 (C) Samarium 153 (D) Iridium 192
73. All of the following are devices for oxygen therapy except :
- (A) Nasal prongs (B) Nasopharyngeal airway  
 (C) Face mask (D) Venturi mask
74. Spot the incorrect one regarding latest recommendations in CPR :
- (A) The initial sequence of events has changed from Airway – Breathing – Circulation to Circulation-Airway-Breathing  
 (B) Chest compression rate should be atleast 100/minute  
 (C) The compression depth should be upto 2 inches  
 (D) Look listen and feel is no longer recommended

75. Which one of the following is not a supraglottic airway device?
- (A) Laryngeal Mask Airway (B) I Gel  
(C) Cobra PLA (D) Cuffed endotracheal tube
76. Which one of the following intravenous anaesthetic agent is used in day care anaesthesia?
- (A) Propofol (B) Ketamine  
(C) Etomidate (D) Thiopentone sodium
77. What is the ET tube size to be used in a 1.5 kg baby :
- (A) 2.5 (B) 3  
(C) 3.5 (D) 4
78. Jaundice in newborn at birth or within 24 hours is commonly due to :
- (A) Physiological (B) Biliary atresia  
(C) Crigler-najjar (D) Erythroblastosis
79. Fetal stem cell transplantation is considered in all of the following except :
- (A) Thalassemia  
(B) Iso immune thrombocytopenia  
(C) Chronic granulomatous disease of newborn  
(D) Severe combined-immunodeficiency
80. The following is true of bone age estimation except:
- (A) Tanner Whitehouse staging is used  
(B) Fifteen ossification centres are used in the Tanner Whitehouse system  
(C) X ray shoulder is most useful during early infancy  
(D) The last carpal bone to ossify is the pisiform at the age of 12 years
81. Kerala has a total area of \_\_\_\_\_ Sq. miles.
- (A) 14860 Sq miles (B) 15002 Sq miles  
(C) 15725 Sq miles (D) 16203 Sq miles
82. The highest rainfall in the State of Kerala occurs in the Districts of :
- (A) Idukki (B) Pathanamthitta  
(C) Alappuzha (D) Kozhikkode

83. Which among the River mentioned by Kautilya's Arthashastra as one of the places in India where pearls could be found?
- (A) Periyar (B) Bharathapuzha  
(C) Pumba (D) Kaveri
84. The first Native historian who grasped the importance of the social aspects of Kerala history was :
- (A) P. N. Kunjan Pillai (B) L. A. Krishna Iyer  
(C) S. Parameswara Iyer (D) K. P. Padmanabha Menon
85. The Reform Movement "Yogakshema Sabha" among the Namboodiris organised in the year :
- (A) 1907 (B) 1908  
(C) 1909 (D) 1910
86. Which Text of Chattampi Swami gave much importance to non violence?
- (A) Vedadhikara Nirupana (B) Advaitha Chindapaddhathi  
(C) Jivakarunya Nirupana (D) Mokshapradeepa khandana
87. Who presided over the meeting, on the occasion of the formation of 'Samastha Kochi Pulaya Maha Sabha' in 1913?
- (A) K. K. Madhavan (B) Ayyankali  
(C) K. K. Kannan (D) T. K. Krishna Menon
88. Who among the following wrote the Text "Udhyana Virunnu"?
- (A) Pandit Karuppan (B) Dr. Velukutty Arayan  
(C) Kuzhithara Kumaran (D) K. P. Narayana Das
89. A Social Reformer, who at first time installed a mirror for worshipping in South India was :
- (A) Sree Narayana Guru (B) Ayya Vaikundar  
(C) A. Ayyappan (D) Kumara Guru
90. Who among the Social reformer, later known as Brahmananda Siva Yogi?
- (A) Karatt Govinda Menon (B) Karatt Achutha Menon  
(C) Chenkalath Kunhirama Menon (D) T. Rama Panikkar
91. 'The Indian Civil Services' were brought into existence by :
- (A) Lord Rippon (B) Lord Nippon  
(C) Lord Cornwallies (D) Lord Wellesley

92. Which Educational Reform came to be known as the "Magna Carta" of Indian Education?  
(A) Minutes of Macaulay (B) Hunter Commission  
(C) Calcutta Corporation Act (D) Wood's Despatch
93. In which year Swami Vivekananda attended the 'Parliament of Religions' at Chicago in USA?  
(A) 1892 (B) 1893  
(C) 1894 (D) 1895
94. Among the following, who is considered as the Extremists within the Indian National Congress?  
(A) Bal Gangadhar Tilak (B) Dadabhai Naoroji  
(C) M.G. Ranade (D) Baddrudin Tyabji
95. Which Party put forward an idea of 'Council entry' to wreck the reforms from within :  
(A) Congress Socialist Party (B) Communist Party  
(C) Swaraj Party (D) None of these
96. Who made the slogan, "If you give me blood and I will give you freedom"?  
(A) Aurabindo Ghosh (B) Bhagat Singh  
(C) Subash Chandra Bose (D) Khudi Ram Bose
97. The National Development Council in India set up in the year :  
(A) 1951 (B) 1952  
(C) 1953 (D) 1954
98. The recently died Gabriel Garcia Marquez is distinguished in which of the following fields :  
(A) Journalism (B) Painting  
(C) Music (D) Literature
99. The National Film Award in 2014, Actor Suraj Venjaramoode shared a Best actor Award with :  
(A) Hansal Mehta (B) Raj Kumar Rao  
(C) Kabir Suman (D) Muthu Kumar
100. Who was the Best Director of the Kerala State Film Award, 2014?  
(A) Anil Radha Krishna Menon (B) Jithu Joseph  
(C) Shyama Prasad (D) Aneesh Anwar