

**1997 Tamil Nadu Public Service Commission (TNPSC)  
Medical Officer Recruitment Exam**

1. Branches of Superior Mesenteric artery  
I Ileocolic 'A'  
II Right Colic 'A'  
III Middle Colic 'A'  
IV Left Colic 'A'  
Code  
A) I alone is correct  
B) I and II are correct  
C) I,II and III are correct  
D) All are correct
  
2. Male urethra is lined by  
I Transitional epithelium  
II Stratified columnar epithelium  
III Stratified squamous epithelium  
IV Pseudo stratified ciliated columnar epithelium  
codes :  
A) I alone is correct  
B) I and II are correct  
C) I,II and III are correct  
D) All are correct
  
3. Regarding Anal canal  
I Lower end supplied by Somatic nerves  
II Supplied by Inferior Rectal artery  
III Anal valves and anal columns are present  
IV Both Endodermal and Ectodermal in origin  
Codes :  
A) I alone is correct  
B) I and II are correct  
C) I,II and III are correct  
D) All are correct
  
4. The following diseases are due to genetic disorder except  
A) Huntington's chorea  
B) BETA Thalassemia  
C) Phenyl Ketonuria  
D) Parkinsonism
  
5. The term 'Chemotaxis' refers to The force attracting neutrophils  
A) The force attracting neutrophils  
B) The amoeboid movement of leucocytes  
C) Making the bacteria 'tasty'  
D) Sensing chemical changes in the blood
  
6. Sympathetic stimulation on the branches causes  
A) Bronchial constriction  
B) Increased secretion of glands into Bronchi  
C) No effect  
D) Bronchial Dilatation
  
7. Consider the statements :  
I Nodal Rhythm is the rhythmicity exhibited Sinoatrial Node  
II The velocity of conduction of cardiac impulse maximum in Purkinje Tissue  
III Conduction is delayed in ventricular hypertrophy  
IV determination of cardiac output is the useful test to study the conducting tissues of heart

- A) II and III are correct  
C) I, II and III are correct
- B) I and II are correct  
D) II, III and IV correct
8. Prefrontal areas are considered to be the location  
A) Sensory function  
C) Control of cardiac activities
- B) Motor functions  
D) Higher intellectual functions
9. Immunosuppressive effect of cortisone is attributed to its ability to  
A) Produce lymphopenia  
C) Block DNA synthesis
- B) Destroy immunoglobulin  
D) Crosslink DNA strand
10. The sarcotubular system is mainly concerned with  
A) Transmission of action potential  
C) Muscle degeneration
- B) Muscle metabolism  
D) Movement of the muscle
11. Duodenal mucosa is protected from the action of acid and pepsin by  
A) Reduced secretion of bicarbonate  
C) Hyperplasia of duodenal mucosa
- B) Secretion of Brunner's glands  
D) Stimulation of sympathetics
12. The tremors which are produced in cerebellar lesion are  
A) Fine tremors  
C) Hysterical tremors
- B) Coarse tremors  
D) Intention tremors
13. Regulation of water intake is mainly due to  
A) Osmolarity of the plasma  
C) Secretion of oestrogens
- B) Effect of vasopressin  
D) Secretion of androgens
14. The Anti-Diuretic Hormone acts on the  
A) Proximal convoluted tubule  
C) Distal convoluted tubule
- B) Glomerulus  
D) Descending loop of Henle
15. Hyperglycemia is associated with  
A) Decreased insulin secretion  
C) Increased insulin and glucagon secretion
- B) Increased glucagon secretion  
D) A and B
16. In which of the following diseases, sorbitol accumulates in the lens of the eye?  
A) Wilson's disease  
C) Galactosemia
- B) Von Gierke's disease  
D) Diabetes mellitus
17. Muscle glycogen does not give blood glucose because  
A) Cyclic AMP is non-functional in muscle  
C) Active phosphorylase is not formed in muscle
- B) Glycogen level is low in muscle  
D) Absence of glucose-6-phosphatase
18. Succinate dehydrogenase inhibition by malonate is  
A) Non-competitive inhibition  
C) Feedback inhibition
- B) Irreversible inhibition  
D) Competitive inhibition

19. Ketogenesis primarily occurs in  
A) Liver mitochondria  
B) Brain  
C) Heart  
D) Skeletal muscle
20. Lipotropic factor which is required for the normal mobilisation of fat from liver is  
A) Choline  
B) Bilirubin  
C) Sodium taurocholate  
D) Cysteine
21. Ochronosis is a feature of  
A) Phenyl ketonuria  
B) Albinism  
C) Hypervitaminosis D  
D) Alkaptonuria
22. The linear pathway of arachidonate metabolism yields  
A) Prostaglandins  
B) Thromboxanes  
C) Leukotrienes  
D) Prostacyclins
23. Milk contains very less amount of  
A) Calcium  
B) Phosphorus  
C) Iron  
D) Riboflavin
24. Excessive iron is stored in the liver in the form of  
A) Ferritin  
B) Hemosiderin  
C) Ferriodxin  
D) Apoferritin
25. Ketotifen is a  
A) Surfactant  
B) Anorexiant  
C) Mast-cell stabilizer  
D) Mast-cell disrupter
26. Vasopressin is used in  
A) Neurogenic diabetes insipidus  
B) Neurogenic + Nephrogenic diabetes insipidus  
C) Nephrogenic diabetes insipidus only  
D) Diabetes Mellitus
27. Allopurinol (Xyloprin) inhibits the enzyme  
A) Aldehyde dehydrogenase  
B) Xanthine oxidase  
C) Carbonic anhydrase  
D) Alcohol dehydrogenase
28. Primaquine sensitivity is due to deficiency of  
A) Cholinesterase  
B) Pseudo cholinesterase  
C) Glucose-6-Phosphatase  
D) Glucose-6-Phosphate dehydrogenase
29. Valproic acid acts by  
A) Elevating the levels of GABA in CNS  
B) Decreasing the levels of GABA in CNS  
C) Antagonising acetylcholine  
D) By inhibiting phosphodiesterase
30. Match List I correctly with List II and mention the answer using codes  
List I  
a. Gentamicin  
b. Cyclophosphamide

- c. Atenolol
- d. Hydralazine

List II

- 1. Lupus
- 2. Bradycardia
- 3. Alopecia
- 4. Nephrotoxicity

- A) A3, B4, C1, D2
- C) A4, B2, C3, D1

- B) A2, B3, C4, D1
- D) A4, B3, C2, D1

31. Organophosphates irreversibly block the enzymes  
 A) Phosphodiesterases                      B) Co-decarboxylases  
 C) Choline acetylases                      D) Choline esterases
32. Which one of the following is not correctly-matched?  
 A) Diazepam-Nootropic                      B) Status Asthmaticus- Hydrocortisone  
 C) Carcinoid-Aprotinin                      D) Bromhexine-Mucolytic
33. Phentolamine mesylate of Regitine mesylate is  
 A) An alpha adrenoreceptor blocking drug                      B) An alpha adrenoreceptor stimulating drug  
 C) A beta adrenoreceptor stimulating drug                      D) A beta adrenoreceptor blocking drug
34. Mifepristone is used for  
 A) Termination of pregnancy                      B) Suppression of Lactation  
 C) Treatment of prostatic cancer                      D) Treatment of post partum haemorrhage
35. Match the following and select the answers using the codes:  
 List I  
 a. Wilson and Blair medium  
 b. Mac Conkey's agar  
 c. Stuart transport medium  
 d. Glycerol saline  
 List II  
 1. Gonococci  
 2. Shigella  
 3. Salmonella  
 4. Esch. Coli  
 A) A1, B2, C3, D4                      B) A3, B4, C1, D2  
 C) A4, B2, C3, D1                      D) A2, B3, C4, D1
36. Grafting from a genetically unrelated animal of the same species is called  
 A) Allograft                      B) Autograft  
 C) Isograft                      D) Xenograft
37. Match the following and choose the answer using the codes given below :  
 a. Systemic lupus erythematosus  
 b. Encephalomyelitis  
 c. Hashimoto's disease

- d. Myasthenia gravis  
1. Thyroid  
2. Acetylcholine Receptor  
3. DNA  
4. Neural tissue  
A) A4, B1, C2, D3  
B) A2, B3, C1, D4  
C) A3, B4, C1, D2  
D) A1, B2, C3, D4
38. Swimming Pool granuloma is caused by  
A) Mycobacterium marinum  
B) Mycobacterium kansasii  
C) Mycobacterium intracellulare  
D) Mycobacterium ulcerans
39. An example of gram negative, non-sporing anaerobic bacilli is  
A) Haemophilus  
B) Nocardia  
C) Actinomyces  
D) Bacteroides
40. The best serum marker to detect the replication of Hepatitis B virus is  
A) HB s Ag  
B) Anti Hbc IgM  
C) Anti HBs  
D) H Be Ag
41. Which of the following viruses multiply in the nucleus of the infected cells?  
A) Rabies virus  
B) Adeno virus  
C) Mumps virus  
D) Polio virus
42. Madura mycosis is caused by all of the following except  
A) Nocardia  
B) Streptomyces  
C) Mucor  
D) Actinomadurae
43. Dogs are responsible for transmission of all of the following except  
A) Toxocara canis  
B) Kala-Azar  
C) Toxoplasmosis  
D) Hydatid disease
44. Riedel-Walker test is used to check the efficiency of  
A) Autoclave  
B) Hot air oven  
C) Filters  
D) Disinfectants
45. Which of the following is associated with causation of pain in inflammation?  
A) PGD<sub>2</sub>  
B) PGE<sub>2</sub>  
C) PGF<sub>2α</sub>  
D) PGI<sub>2</sub>
46. The two major opsonins are  
A) C3a & C5a  
B) C5b & C3b  
C) C3b & IgG  
D) C3a & C5b
47. Lines of Zahn occur in  
A) Postmortem clot  
B) Infarct  
C) Embolus  
D) Coralline Thrombus
48. Which of the following is an example of metastatic calcification ?  
A) Calcification of atheromatous plaques in coronary arteries  
B) Calcification of caseating granulomas Ghon's complex

- C) Calcification of head rheumatic mitral valvulitis      D) Nephrocalcinosis in Milk-Alkali syndrome
49. Vegetations of rheumatic endocarditis are seen along the  
A) Mural endocardium      B) Along the lines of closure of valve leaflets  
C) Valves      D) Free margins of Valve cusps
50. Alpha-1 antitrypsin deficiency is associated with  
A) Pneumoconiosis      B) Panacinar emphysema  
C) Bronchial asthma      D) None of the above
51. The pathogenesis of carcinoma of the endometrium associated with all of following except:  
A) Adenomatous hyperplasia of the endometrium      B) Coexisting granulosa cell tumor of the ovary  
C) Endometriosis      D) Obesity
52. Pigment gall stones are  
A) Usually multiple and multifaceted      B) Have 70% cholesterol  
C) Associated with chronic cholecystitis      D) All of the above
53. Ideal type of peripheral smear to demonstrate parasites is  
A) Buffy coat smear      B) Thick smear  
C) Thin smear      D) Very thin smear
54. Chronic Vitamin 'A' toxicity does not include following except  
A) Hyperostoses      B) Hair loss  
C) Benign intracranial hypertension      D) Urticaria
55. Indications for coronary Bypass operation include following except:  
A) Severe angina not responding to Medical Therapy      B) Triple vessel disease  
C) Occlusion of left main coronary      D) Previous infarction with CCF
56. Barbiturate overdose in a suicide attempt is likely to be associated with  
A) Dilated Pupils      B) Absent Oculovestibular response  
C) Hypertension      D) Response to Naloxone
57. Areas of CNS spared in Poliomyelitis are the following except  
A) Entire cerebral cortex leaving aside motor area      B) Cerebellum  
C) White matter of spinal cord      D) Grey matter of spinal cord
58. Causes of multiple lung abscesses include the follow except  
A) Pneumonia      B) Rupture of amoebic liver abscess into lung  
C) TB      D) Cystic Fibrosis
59. Acquired Hemolytic anemia may result from the following drugs except

- A) Streptomycin  
C) Furazolidine
- B) Primaquine  
D) Vit 'A'
60. Hair-on-End appearance in Skull X-ray is found in  
A) Iron deficiency anaemia  
B) Cooley's anemia  
C) sickle cell anemia  
D) Hereditary spherocytosis
61. Which of the following is not found in diabetes Insipidus?  
A) Inability to concentrate Urine  
B) Dysuria  
C) Polyuria  
D) Polydypsia
62. Pseudo tumour cerebri is also referred to as each of the following except  
A) Benign intracranial hypertension  
B) Otitic Hydrocephalus  
C) Idiopathic hypercrania  
D) Papilledema
63. Common complication of impetigo is  
A) Acute Glomerulonephritis  
B) Rheumatic Fever  
C) Scarlet Fever  
D) Otitis
64. Manifestations of Acute Glomerulonephritis include each of the following except  
A) Periorbital Edema  
B) Hypertensive Encephalopathy  
C) Acute Renal failure  
D) Optic Atrophy
65. Prothrombin time is a function of all of the following except  
A) Factor II  
B) Factor V  
C) Factor VII  
D) Factor IX
66. The CSF findings in acute pyogenic bacterial meningitis are all except :  
A) Increased Pressure  
B) Decreased sugar  
C) Lymphocytosis  
D) Increased protein
67. Death in malnourished children can be due to any one of the following codes :  
I Hyperglycemia  
II Infections  
III Hypothermia  
V Dyselectrolytemia  
A) I alone is correct  
B) I and III are correct  
C) II, III and IV are correct  
D) All are correct
68. Kawasaki's disease is associated with any one of the following codes  
I Children aged above 5 years  
II Thrombocytosis  
III Coronary Aneurysm  
IV Mucocutaneous Lesions  
A) I alone is correct  
B) I and III are correct  
C) II, III and IV are correct  
D) All are correct
69. The sequential activation of clotting factors in Phase I of coagulation is as follows  
A) Factor XII, Factor VII, Factor XI, Factor IX  
B) Factor XII, Factor XI, Factor IX, Factor VIII  
C) Factor VIII, Factor XII, Factor IX,  
D) Factor IX, Factor VII, Factor XI, Factor

Factor XI

XII

70. The sequential changes in acute bronchiolitis are as follows :
- |                                                                      |                                                                  |
|----------------------------------------------------------------------|------------------------------------------------------------------|
| A) Dyspnoea, Resp. Acidosis, Resp. Alkalosis, Metabolic acidosis     | B) Resp. Acidosis, Metabolic Acidosis, Resp, Alkalosis, Dyspnoea |
| C) Metabolic acidosis, Dyspnoea, Resp. Alkalosis, Metabolic acidosis | D) Dysponea, Resp. Alkalosis, Resp. Acidosis, Metabolic acidosis |
71. Match List I Correctly with List II:
- List I
- Hepatitis A
  - Hepatitis B
  - Hepatitis C
  - Delta virus
- List II
- Transplacental Transmission
  - Most of them recover completely
  - Blood transfusion associated
  - Defective virus
- |                   |                   |
|-------------------|-------------------|
| A) A1, B3, C2, D4 | B) A2, B1, C4, D3 |
| C) A2, B1, C3, D4 | D) A3, B1, C4, D2 |
72. Match List I Correctly with List II
- List I
- Kwashiorkor
  - Marasmus
  - Marasmic kwashiorkor
  - Grade IV malnutrition
- List II
- Weight below 60% of expected without oedema
  - 60% - 80% of expected weight with oedema
  - Less than 50% of expected weight
  - Weight below 60% of expected weight with oedema
- Select you answer using the codes given below:
- |                   |                   |
|-------------------|-------------------|
| A) A1, B3, C2, D4 | B) A2, B1, C4, D3 |
| C) A2, B1, C3, D4 | D) A3, B1, C4, D2 |
73. Stage II of Hodgkin's disease is
- |                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| A) One anatomic region | B) Both sides of diaphragm                                                   |
| C) Bone marrow         | D) Two contiguous or non-contiguous groups on the same side of the diaphragm |
74. Impulse on coughing for inguinal hernia is best palpated
- |                               |                                         |
|-------------------------------|-----------------------------------------|
| A) At the root of the scrotum | B) At the bottom of the scrotum         |
| C) At the deep inguinal ring  | D) At the medial part of inguinal canal |
75. Volkman's ischaemic contracture is mostly seen in
- |                                      |                                |
|--------------------------------------|--------------------------------|
| A) Colle's fracture                  | B) Fracture neck of the femur  |
| C) Supracondylar fracture of humerus | D) Fracture head of the radius |



76. The best treatment for a localised basal cell carcinoma at the inner canthus of the eye is  
A) A combination of chemotherapy and radiotherapy  
B) Wide excision  
C) Radium needle implantation  
D) Chemotherapy alone
77. Best single modality of treatment of carcinoma breast in a 40 years old lady is  
A) Quadrant Mastectomy  
B) Radiotherapy  
C) Chemotherapy  
D) None of the above
78. Troublesome bleeding during lumbar sympathectomy is due to injury to  
A) Testicular vessels  
B) Lumbar veins  
C) Lumbar arteries  
D) Aorta
79. Medullary carcinoma of thyroid arises from  
A) Parafollicular cells  
B) Thyroid Acinar cells  
C) Capsule of thyroid  
D) None of the above
80. In Meconium ileus  
A) Surgery is always advised primarily  
B) Bilious vomiting is an early feature  
C) There is impaction of meconium in the distal part of duodenum  
D) Upright straight abdominal film shows enormously distended small bowel without gas or fluid levels
81. The most malignant among the carcinomas of the breast is  
A) Medullary carcinoma  
B) Colloid carcinoma  
C) Infiltrating duct carcinoma  
D) Carcinoma of mammary lobules
82. Best result after repair of Flexor Tendon injuries of the hand occur if the injury is in  
A) Zone 1  
B) Zone 2  
C) Zone 3  
D) Zone 4
83. Percentage of women who deliver on the expected date of delivery is  
A) 4  
B) 8  
C) 15  
D) 35
84. Amniocentesis is best diagnostic if done in  
A) 8 - 10 weeks  
B) 12 - 14 weeks  
C) 16 - 18 weeks  
D) 20 - 22 weeks
85. The most common vaginal infection during pregnancy is  
A) Trichomoniasis  
B) Candida albicans  
C) Streptococcal  
D) Gonococcal
86. Sheehan's syndrome includes all except  
A) Suppression of Lactation  
B) Amenorrhoea  
C) Super involution of uterus  
D) Galactorrhoea
87. Marker in choriocarcinoma is  
A) Estrogen  
B) Progesterone

- C) AFP  
D) HCG
88. A minimum of sperm count is necessary for fertilisation:  
A) 30 millions  
B) 60-120 millions  
C) 10 millions with 50-60% motile and less than 10% abnormal sperm  
D) 1-2 millions - all motile
89. Peg' cells are seen in  
A) Vagina  
B) Vulva  
C) Ovary  
D) Tubes
90. The best result of chemotherapy is got in the following genital  
A) Carcinoma cervix  
B) Chorio carcinoma  
C) Carcinoma endometrium  
D) Carcinoma vulva
91. Iron prophylaxis is started in pregnant woman at  
A) 6 weeks  
B) 10 weeks  
C) 16 weeks  
D) 20 weeks
92. Astasia Abasia is seen in  
A) Parkinson's disease  
B) Lithium toxicity  
C) Conversion reaction  
D) Complex partial epilepsy
93. Gilles de la Tourett's syndrome has the following features except  
A) Vocal tics  
B) Motor tics  
C) Coprolalia  
D) Hallucinations
94. Multiple personality disorder is a type of  
A) Schizophrenia  
B) Mania  
C) Dissociative disorder  
D) None of the above
95. Disulfiram inhibits the metabolism of alcohol at  
A) Aldehyde level  
B) Acetic acid level  
C) Pyruvate level  
D) CO<sub>2</sub> level
96. Mania is caused by  
A) Phases of the moon  
B) Lack of affection  
C) Puerperium  
D) None of the above
97. The following are all disorders of sleep except  
A) Narcolepsy  
B) Nightmares  
C) Fugue  
D) Night terrors
98. Which of these disorders include disease fear and disease conviction?  
A) Somatization disorder  
B) Hypochondriasis  
C) Somatoform pain disorder  
D) Conversion disorder
99. Unconscious conflicts are emphasized more in relation to  
A) Schizophrenia  
B) Conversion disorder  
C) Obsessive compulsive disorder  
D) Malingering

100. Delirium tremor is characterised by all except  
A) Gross peripheral tremors                      B) Restlessness  
C) Clouded consciousness                      D) Hypothermia
101. Electroconvulsive therapy is most indicated in  
A) Depressive stupor                      B) Endogenous depression  
C) Mania                      D) Chronic schizophrenia
102. For genetic control of mosquitoes the sterile male technique is used in which mosquitoes are sterilised in pupal stage by application of  
A) Chemosterilants                      B) Organo-chlorine chemicals  
C) Irradiation                      D) UV rays
103. In rural India, sanitation barrier can be best provided by  
A) Sewage system                      B) Sewage treatment plants  
C) Sanitary latrines                      D) Service latrines
104. Definitive host in malaria is  
A) Man                      B) Female anopheles mosquito  
C) Male anopheles mosquito                      D) Culex fatigans
105. Descriptive epidemiology of disease is concerned with  
A) Description of underlying cause                      B) Description of distribution  
C) Description of clinical spectrum                      D) Description of natural history
106. Panel discussion may consist of the following  
I. 4-8 experts on a subject  
II. A large audience  
III. There is no moderator  
IV. There is no specific agenda  
Select the correct answer from the codes given below:  
A) I, II and III                      B) II, III and IV  
C) I, III and IV                      D) I, II and IV
107. The following is the best single indicator of the health status of a population  
A) Life expectancy                      B) Birth weight  
C) Perinatal mortality rate                      D) Infant mortality rate
108. Cross-sectional surveys provide data about  
A) Prevalence of a disease                      B) Incidence of a disease  
C) Risk factors of a disease                      D) Natural history of a disease
109. The sensitivity of a screening test is the ability of the test to detect?  
A) True Positives                      B) True Negatives  
C) False Positives                      D) False Negatives
110. The first country in the world to launch a nation wide 'Family Planning programme' is  
A) India                      B) USA  
C) Sweden                      D) Germany

111. The time limit given for registration of birth under Central Births and Deaths Registration Act, 1969 is
- A) 7 days
  - B) 14 days
  - C) 28 days
  - D) 42 days