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National Licensing Examination Preparation Book 2026

A full model paper in the real NLE pattern, with answer key



100 MCQs

Real NLE subject split

Answer key + online explanations

How to use this book

1. Sit each model paper in one go, in 120 minutes, with a pen and the answer sheet of your choice.
2. Mark yourself with the answer key at the back.
3. Every answer in the key is a link. Tap it to read why that option is right on TestUstad, free.

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What is in this book

100 MCQs across one paper, each drawn in the same subject split as the real NLE paper:

- Pathology: 18 MCQs per paper
- Pharmacology: 18 MCQs per paper
- Physiology: 18 MCQs per paper
- General Anatomy: 16 MCQs per paper
- Biochemistry: 15 MCQs per paper
- Microbiology: 15 MCQs per paper



MODEL PAPER 1 OF 1

National Licensing Examination

100 MCQs · 120 minutes · answer key at the back



Pathology

18 MCQs

1. The characteristic finding in chronic myeloid leukemia is _____?

- ☐ A Reduced score of alkaline phosphatase in granulocytes
- ☐ B Reduced score of acid phosphatase in granulocytes
- ☐ C Total lack of platelets
- ☐ D Total lack of neutrophils

2. Metastatic calcifications are seen in _____?

- ☐ A Hypoparathyroidism
- ☐ B Vitamin D deficiency
- ☐ C Hypercalcemia
- ☐ D All of the above

3. Granuloma is characterized by all of the following except _____?

- ☐ A A specific type of chronic inflammation
- ☐ B Accumulation of modified macrophages
- ☐ C Initiated by a number of infectious and non infectious agents
- ☐ D A reaction of acute inflammation

4. A infant with cleft lip, palate, polydactyly, microcephaly with holoprosencephaly, ectodermal scalp defect is suffering from ?

- ☐ A Trisomy 21
- ☐ B Trisomy 18
- ☐ C Trisomy 13
- ☐ D Turner syndrome

5. Early positive reaction in lepromin test is _____?

- ☐ A Fernandez reaction
- ☐ B Mituda reaction
- ☐ C Wasserman reaction
- ☐ D None of the above

6. Severe generalized edema is called as _____?

- ☐ A Myxoedema
- ☐ B Pitting edema
- ☐ C Anasarca
- ☐ D Dependent edema

7. The most common site of metastases of osteosarcoma is _____?

- (A) Liver
- (B) Spleen
- (C) Lymph nodes
- (D) Lung

8. Deposition of bile pigment in the basal ganglia is called _____?

- (A) jaundice
- (B) Kernicterus
- (C) Haemosiderosis
- (D) All of the above

9. Primary hemostasis is disturbed in _____?

- (A) Platelet disorder
- (B) Lupus anticoagulant
- (C) Hemophilia
- (D) Liver disease

10. Which of the following is NOT true of dystrophic calcification?

- (A) Occurs in damaged tissue
- (B) Tuberculous lesions
- (C) Atherosclerotic lesions
- (D) Serum calcium levels are high

11. Peripheral nerve regenerates at the rate of _____ mm per day?

- (A) 1
- (B) 2
- (C) 0.5
- (D) 5

12. IN fanconi anemia there is a _____?

- (A) Deficiency of copper
- (B) Mutation of DNA repair gene
- (C) No increased risk of Sq. cell carcinoma
- (D) Purely nutritional disorder etiology

13. Which one of the following does not present antigens?

- (A) NK cells (Natural killer cells)
- (B) Dendritic cells
- (C) Langerhan's cells
- (D) Macrophages

14. Edema occurs due to _____?

- (A) Increased capillary permeability
- (B) Decreased capillary permeability
- (C) Decreased interstitial fluid
- (D) Decreased blood flow

15. In Troisiers sign the lymph nodes involved are _____?

- (A) Right axillary nodes
- (B) Left axillary nodes
- (C) Right supraclavicular nodes
- (D) Left supraclavicular nodes

16. The drug which is used to treat laryngospasm is _____?

- (A) Atropine
- (B) Diazepam
- (C) Neostigmine
- (D) Succinylcholine

17. Reduced number of platelet is found in all the conditions except _____?

- (A) Disseminated intravascular coagulation
- (B) Aplastic anaemia
- (C) Acute myelocytic leukemia
- (D) Von willebrand disease

18. The activation of caspases is likely to lead to _____?

- (A) Apoptotic cell death
- (B) Blood coagulation
- (C) Mitotic cell division
- (D) G1 to S phase of cell cycle



Pharmacology

18 MCQs

19. Drugs causing hyperglycemia _____?

- (A) B-blocker
- (B) Glucocorticoids
- (C) Acetylcholine
- (D) α -blockers

20. Rapid onset of inhalational GA depends on _____?

- (A) Blood solubility
- (B) Cerebral blood flow
- (C) Partial pressure of GA
- (D) All of the above

21. Digitalis induced automaticity is enhanced by _____?

- (A) High K^+ levels
- (B) High Ca^{2+} levels
- (C) High Na^+ levels
- (D) Low K^+ levels

22. One of the obvious consequences of alcohol (ethanol), ingestion in many individual is facial flushing and increased heart rate triggered off by alcohol getting metabolized to _____?

- (A) Formaldehyde
- (B) Acetaldehyde
- (C) Propanaldehyde
- (D) Butanaldehyde

23. Quinine is obtained from CINCHONA _____?

- (A) Root
- (B) Bark
- (C) Leaves
- (D) Seed capsule

24. Among the drugs given below, which is LEAST likely to be implicated in drug induced hepatitis?

- (A) Isoniazid
- (B) Streptomycin
- (C) Rifampicin
- (D) Pyrazinamide

25. Cardiac Toxicity is a common side effect seen with: _____?

- (A) Bleomycin
- (B) Doxorubicin
- (C) Captopril
- (D) Prazosin

26. Short-acting non-depolarising muscle relaxant is _____?

- (A) Succinylcholine
- (B) Pancuronium
- (C) Mivacurum
- (D) Decamethonium

27. Which of the following drugs is used to treat both diabetes mellitus and diabetes insipidus _____?

- (A) Chlorpropamide
- (B) Glibenclamide
- (C) Glicazide
- (D) Glipizide

28. All are true of diazepam except _____?

- (A) Benzodiazepam is used in treatment of status epilepticus
- (B) Benzodiazepam is used in the long term treatment of psychic disorders
- (C) Clonazepam is used in the treatment of petitmal epilepsy
- (D) None of the above

29. Prolonged use of aspirin leads to _____?

- (A) peptic ulcer
- (B) Bleeding defects
- (C) Carcinoma
- (D) A & B

30. For Arsenic poisoning Antidote is _____?

- (A) Penicillamine
- (B) E.D.T.A
- (C) Desferrioxamine
- (D) B.A.L

31. Omeprazole is a _____?

- (A) Antihistamine
- (B) Proton pump inhibitor
- (C) Ulcer protective
- (D) Ulcer healing drug

32. Disseminated candidiasis requires intensive therapy with _____?

- (A) Nystatin
- (B) Amphotericin
- (C) Interferons
- (D) Thiobendazole

33. Imatinib acts on _____?

- (A) Alpha TNF receptors
- (B) IL-2 receptors
- (C) Tyrosin Kinase receptors
- (D) Inhibits Phosphodiesterase

34. Side effect of antihistaminic is _____?

- (A) Cough
- (B) Headache
- (C) Drowsiness
- (D) Vertigo

35. Which one of the following does NOT act by increasing insulin secretion_____?

- (A) Glyburide
- (B) Repaglinide
- (C) Tolbutamide
- (D) Biguanide

36. An antiepileptic drug used in petitmal epilepsy is_____?

- (A) Phenobarbitone
- (B) Dilantin sodium
- (C) Diazepam
- (D) Ethosuximide



Physiology

18 MCQs

37. Urine urobilinogen is absent in_____?

- (A) Obstructive jaundice
- (B) Viral hepatitis
- (C) Hemolytic jaundice
- (D) All of the above

38. Valve of Hasner is present at_____?

- (A) Stensons duct
- (B) common bile duct
- (C) Naso lacrimal duct
- (D) maxillary Sinus

39. The type of hypoxia present in high altitude is_____?

- (A) Anemic Hypoxia
- (B) Hypoxic Hypoxia
- (C) Stagnant Hypoxia
- (D) Histotoxic Hypoxia

40. Hypercalcemia associated with malignancy is most often mediated by_____?

- (A) Parathyroid hormone (PTH)
- (B) Parathyroid hormone related protein (PTHrP)
- (C) Interleukin - 6 (IL-6)
- (D) Calcitonin

41. Hemoglobin is the major buffer in blood, bicarbonate ions diffuse out of erythrocyte into plasma in exchange of_____?

- (A) Potassium
- (B) Phosphate
- (C) Carbonic acid
- (D) Chloride ion

42. The part of nephron" least permeable to water" is_____?

- (A) Proximal tubule
- (B) Descending limb of loop of Henle
- (C) Ascending limb of loop of Henle
- (D) Collecting tubule

43. Following are extrapyramidal tracts except_____?

- (A) Reticulospinal
- (B) Corticospinal
- (C) Rubrospinal
- (D) Vestibulospinal

44. The ventricular repolarization in ECG is best seen in _____?

- (A) "P" wave
- (B) "Q" wave
- (C) "R" wave
- (D) "T" wave

45. Ovulation is associated with sudden rise in _____?

- (A) Prolactin
- (B) Testosterone
- (C) L.H
- (D) Oxytocin

46. Gastric secretion is stimulated by all the following except _____?

- (A) Secretin
- (B) Gastric distension
- (C) Gastrin
- (D) Vagal stimulus

47. Contractile element in myofibril is _____?

- (A) H band
- (B) Sarcoplasm
- (C) Sarcomere
- (D) A line

48. tidal volume in adult is _____?

- (A) 125 ml
- (B) 500 ml
- (C) 1500 ml
- (D) 2200 ml

49. Insulin facilitates glucose uptake in _____?

- (A) Kidney tubules
- (B) Red blood cells
- (C) Brain
- (D) Skeletal muscle

50. Which of the following is not useful for coagulation _____?

- (A) Plasmin
- (B) Thrombin
- (C) Calcium
- (D) Fibrin

51. Carbonic anhydrase in the kidney tubular cells is known to be associated with _____?

- (A) Urea
- (B) Chloride
- (C) Bicarbonate ion
- (D) Carbohydrate

52. In peripheral tissues which of the following contains substance P _____?

- (A) Plasma cell
- (B) Mast cell
- (C) Nerve terminal
- (D) Vascular endothelium

53. When a person lies down _____?

- ☐ A There is immediate increase in venous return
- ☐ B Heart rate becomes stable at slightly more than normal
- ☐ C Cerebral blood flow increase & becomes stable at more than normal
- ☐ D Blood flow to the Apex of lung decrease

54. Hormones FSH & LH of anterior pituitary gland acts on _____?

- ☐ A Testis but not ovaries
- ☐ B Ovaries but not testis
- ☐ C Both Testis and ovaries
- ☐ D Adrenal cortex



General Anatomy

16 MCQs

55. Correct about right and left main bronchi is _____?

- ☐ A Right bronchus is more vertical and broader than the left
- ☐ B Right bronchus is more vertical and has a narrow caliber than the left
- ☐ C Left bronchus is more vertical and broader than right
- ☐ D Left bronchus is more vertical and narrower than right

56. The kidney has _____ segments?

- ☐ A 11
- ☐ B 9
- ☐ C 7
- ☐ D 5

57. All of the following are composite muscles except _____?

- ☐ A Pectineus
- ☐ B Rectus femoris
- ☐ C Adductor magnus
- ☐ D Biceps femoris

58. Maximum oral structures are having their origin from _____?

- ☐ A Ectoderm
- ☐ B Mesoderm
- ☐ C Endoderm
- ☐ D None of the above

59. Haversian system is seen in _____?

- ☐ A Cortical bone
- ☐ B Cancellous bone
- ☐ C Teeth
- ☐ D Nail

60. The orifice of the parotid duct is located _____?

- ☐ A At the hamular notch
- ☐ B In proximity to the incisive papillae
- ☐ C On the buccal mucosa near the maxillary second molar
- ☐ D Slightly posterior to the mandibular central incisors

61. Claw hand is caused by _____?

- (A) Radial nerve
- (B) Ulnar nerve
- (C) Median nerve
- (D) Vidian nerve

62. Thalamus is the largest relay centr for all sensory inputs _____?

- (A) Touch
- (B) Olfaction
- (C) Hearing
- (D) Pressure

63. The esophagus commences at the following level _____?

- (A) Lower end of cricoid
- (B) C5 vertebra
- (C) 10 cm from incisor teeth
- (D) C7

64. Ducts of Bellini are found in _____?

- (A) Pancreas
- (B) Submandibular salivary gland
- (C) Kidney
- (D) Liver

65. A person showing two cell lines driven from one zygote is _____?

- (A) Chimerism
- (B) Mosaicism
- (C) Segregation
- (D) Pseudo - dominance

66. All of the following are derivatives of connective tissue except _____?

- (A) Endothelial cells
- (B) Clara cells
- (C) Fibroblast
- (D) Mast cells

67. Middle constrictor of pharynx has attachment from _____?

- (A) Body of hyoid bone
- (B) Mandible
- (C) Pterygomandibular raphae
- (D) Cricoid cartilage

68. Injury to the median nerve occurs frequently when following artery is used for taking an ABG sample _____?

- (A) Radial artery
- (B) Brachial artery
- (C) External carotid artery
- (D) Femoral artery

69. The cranial nerves which are part of parasympathetic card via _____?

- (A) III, IV, V, VII
- (B) III, VII, VIII, IX
- (C) III, VII, IX, X
- (D) VII, IX, X, XI

70. The stability of the vertebral column is due to _____?

- (A) Vertebra and vertebral discs
- (B) Interspinous ligaments
- (C) Paraspinal muscle
- (D) All



Biochemistry

15 MCQs

71. Cane sugar is _____?

- ☐ A Glucose
- ☐ B Surose
- ☐ C Fructose
- ☐ D Maltose

72. Cofactor required for lipoprotein lipase activity is _____?

- ☐ A Apo A-II
- ☐ B Apo C-II
- ☐ C Apo C-III
- ☐ D Apo B-II

73. In Cytochrome p450, P stands for _____?

- ☐ A Structural proteins
- ☐ B Substrate protiens
- ☐ C Pigment
- ☐ D Polymer

74. Ribosomes are usually associated with _____?

- ☐ A Endoplasmic reticulum
- ☐ B Mitochondria
- ☐ C Nucleolus
- ☐ D Plasma membrane

75. Pernicious anaemia occurs in _____?

- ☐ A Vit B1 deficiency
- ☐ B Vit B12 deficiency
- ☐ C Vit C deficiency
- ☐ D Vit D deficiency

76. Inside the cell, the substance, which contributes to most of the osmolality, is _____?

- ☐ A Protein
- ☐ B Potassium
- ☐ C Urea
- ☐ D Phosphate

77. Acetyl Co-A acts as a substrate for all the enzymes except _____?

- ☐ A HMG-Co A synthase
- ☐ B Malic enzyme
- ☐ C Malonyl CoA synthetase
- ☐ D Fatty acid synthetase

78. Cytochromes are _____?

- ☐ A Pyridine nucleotides
- ☐ B Riboflavin containing nucleotides
- ☐ C Metal containing flavoproteins
- ☐ D Iron-porphyrin proteinsConsult A Nutritionist

79. Glucose 6 phosphatase deficiency is seen in _____?

- ☐ A Pomper's disease
- ☐ B Von Gierke's disease
- ☐ C McArdles syndrome
- ☐ D Downs syndrome

80. The precursor of testosterone is _____?

- (A) Aldosterone
- (B) Methyl testosterone
- (C) Estrogen
- (D) Pregnenolone

81. Dehydrogenase used as coenzymes all of the following, except _____?

- (A) FMN
- (B) FAD
- (C) NADP+
- (D) Ferro protoporphyrin

82. DNA double helix is bound by _____?

- (A) Covalent bond
- (B) Hydrogen bond
- (C) Disulfide linkage
- (D) Vander wall forces

83. Which of the following is the poorest source of vitamin C ?

- (A) Milk
- (B) Cabbage
- (C) Guava
- (D) Radish

84. Which of the following is present in the plasma but absent in the serum ?

- (A) Albumin
- (B) Globulin
- (C) Lecithin
- (D) Fibrinogen

85. All are true about glutathione except ?

- (A) It is a tripeptide
- (B) It converts hemoglobin to methemoglobin
- (C) It conjugates xenobiotics
- (D) It scavenges free radicals and superoxide ions



Microbiology

15 MCQs

86. Oil and Grease are sterilized by _____?

- (A) Hot air oven
- (B) Autoclaving
- (C) Irradiation
- (D) Ethylene dioxide

87. What is the sequence which a retro virus follows on entering a host cell ?

- (A) RNA -DNA-RNA
- (B) RNA-DNA
- (C) DNA-RNA
- (D) DNA-RNA-DNA

88. Most fungi of medical importance belongs to _____?

- (A) Zygomycetes
- (B) Ascomycetes
- (C) Basidiomycetes
- (D) Deuteromycetes

89. Phase contrast microscopy is based on principle of _____?

- (A) Different refractive indices of object
- (B) Different reflective indices of object
- (C) Light scattering
- (D) Light attenuation

90. In T.B cell mediated immunity is by _____?

- (A) CD 4*
- (B) CD 8*
- (C) B - lymphocytes
- (D) None of the above

91. Each of the following can cause food poisoning except _____?

- (A) Cl. difficile
- (B) Staphylococcus
- (C) Cl. welchii
- (D) Cl. botulinum

92. Medusa lock appearance in X ray is seen in _____?

- (A) Ascariasis
- (B) Tapeworm
- (C) Hood worm
- (D) Ascariasis and tapeworm

93. Which of the following microbial cell is most resistant to antiseptics & disinfectants ?

- (A) Mycobacteria
- (B) Spore
- (C) Prions
- (D) Coccidia

94. Bacteriophage was discovered by _____?

- (A) Robert koch
- (B) Twort and d'herelle
- (C) Menkin
- (D) Metchinkoff

95. A sporangium contains _____?

- (A) Spherules
- (B) porangiospores
- (C) Chlamydospores
- (D) Oidia

96. Anaerobic bacteria grow _____?

- (A) in the presence of oxygen
- (B) in the presence of nitrogen
- (C) in the absence of oxygen
- (D) differential media

97. The predominant immunoglobulin in saliva is _____?

- (A) IgA
- (B) IgD
- (C) IgE
- (D) IgG

98. Neurotoxin of tetanus acts on _____?

- (A) Synapse
- (B) Muscle
- (C) Brain
- (D) Spinal cord

99. In falciparum malaria, causes of anemia are due to all except _____?

- ☐ A Hemolysis
- ☐ B Malabsorption
- ☐ C Spleen sequestration
- ☐ D Bone marrow depression

100. Bacterial spores are destroyed by _____?

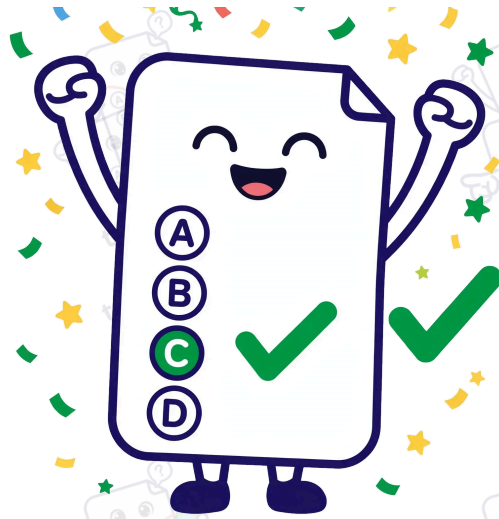
- ☐ A Boiling at 100°C
- ☐ B Disinfection by hypochlorite solution
- ☐ C Autoclave
- ☐ D Pasteurisation

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

1	A	2	C	3	D	4	C	5	A	6	C	7	D	8	B	9	A	10	D
11	A	12	B	13	A	14	A	15	D	16	D	17	D	18	A	19	B	20	D
21	D	22	B	23	B	24	B	25	B	26	C	27	A	28	B	29	D	30	D
31	B	32	B	33	C	34	C	35	D	36	D	37	A	38	C	39	B	40	B
41	D	42	C	43	B	44	D	45	C	46	A	47	C	48	B	49	D	50	A
51	C	52	C	53	A	54	C	55	A	56	D	57	B	58	A	59	A	60	C
61	B	62	B	63	A	64	C	65	B	66	B	67	A	68	B	69	C	70	D
71	B	72	B	73	C	74	A	75	B	76	B	77	B	78	D	79	B	80	D
81	D	82	B	83	A	84	D	85	B	86	A	87	A	88	D	89	A	90	A
91	A	92	A	93	C	94	B	95	B	96	C	97	A	98	D	99	B	100	C



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