25-0002-AB

TEST BOOKLET

Time Allowed: 3.00 hours

PAPER - II

Maximum Marks: 300

INSTRUCTIONS TO CANDIDATES

Read the instructions carefully before answering the questions: -

- 1. This Test Booklet consists of 20 (twenty) pages.
- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.A
- 3. Please note that it is the candidate's responsibility to fill in the Roll Number and other required details carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet and the Separate Answer Booklet. Any omission/discrepancy will render the OMR Answer Sheet and the Separate Answer Booklet liable for rejection.
- Do not write anything else on the OMR Answer Sheet except the required information. Before
 you proceed to mark in the OMR Answer Sheet, please ensure that you have filled in the required
 particulars as per given instructions.
- 5. Use only Black Ball Point Pen to fill the OMR Answer Sheet.
- 6. This Test Booklet is divided into 3 (three) sections Section A, Section B and Section C.
- 7. All three sections are Compulsory.
- Section A consist of Multiple Choice-based Questions. The answers to these questions have to be marked in the OMR Answer Sheet provided to you.
- Section B and Section C consist of Conventional Questions. The answers to these questions
 have to be written in the Separate Answer Booklet provided to you.
- 10. In Section A, each item (question) comprises of 04 (four) responses (answers). You are required to select the response which you want to mark on the OMR 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.
- 11. After you have completed filling in all your responses on the OMR Answer Sheet and the Answer Booklet(s) and the examination has concluded, you should hand over to the Invigilator only the OMR Answer Sheet and the Answer Booklet(s). You are permitted to take the Test Booklet with you.
- 12. Penalty for wrong answers in Multiple Choice-based Questions:

THERE WIL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.

- (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 of the marks assigned to the 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 the 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.

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

GENERAL MEDICINE

SECTION - A

Choose the correct answers for the following questions: (50X2=100)

		arrel on arres	, out any	physical	activity	WITHOUT	discomfort
is?							

- a) Garde I
- b) Grade II
- c) Grade III
- d) Grade IV
- 2. Which of the following is not a determinant of stroke volume?
 - a) Preload
 - b) After load
 - c) End systolic volume
 - d) Myocardial contractility
- 3. Angle of Louis corresponds to which vertebral level?
 - a) T5
 - b) T1
 - c) C7
 - d) T6
- 4. All of the following are obstructive lung diseases except
 - a) Asthma
 - b) COPD
 - c) Bronchiolitis
 - d) Asbestosis
- 5. Which one of the following is not a static lung function test?
 - a) Vital capacity
 - b) Maximum breathing capacity
 - c) Tidal volume
 - d) Residual volume
- 6. Change in lung volume per unit change in time is called
 - a) Work of breathing
 - b) Closing capacity
 - c) Compliance
 - d) Functional residual capacity
- 7. Which of the following hormones regulates peristaltic activity?
 - a) Gastrin
 - b) Motilin
 - c) Enteroglucagon
 - d) Neurotensin

GENERAL MEDICINE

8. W	nich of the following is not an indicat	on for upper GI endoscopy?	
a)	Dyspepsia	35.00	
b)	Dysphagia		
c)	Rectal bleeding	11 N 14 N 15 N 15 N 15 N 15 N 15 N 15 N	in
d)	Duodenal biopsies	source the correct answers for the follows	11.2
motell		1. Which WHA unde is mability to ca	
	l of the following are actions of chole	cystokinin except -	
	Gall bladder contraction	Estroit 18	
b)	Relaxation of sphincter of Oddi	D) Circle II	
c)	Satiety	Di abini) (u	
d)	Decreased acid secretion	d) Garde IV	
10. In	which region is transplanted kidney p	palpable? The following is not wind	
	Right hypochondriac	a) Persond	
-	Right lumbar	N After Intil	
	Right iliac	c) End systolic volume	
100	Hypochondrium	d) Myocardial contractility	
	11.1 :- DTDA usad9		
11. 10	Wild organ is DIFA scan used:	3. Augle of Lams corresponds in which	
	Kidneys	3) 75	
	Liver	11 (8	
	Pancreas	73 (0	
d)	Heart	सर (६	
12. W	hich of the following hormones is sec	reted by the kidneys?	
a)	Glucagon	a) Asrlima	
b)	Renin	N COPD	
c)	Vasopressin	c) Bronchollis	
d)		d) Asbesmass	
12 W	hich of the following is the fourth cra	nial nerve?	
a)		n) Vital capacity	
b)		b) Maximus breathing capacity	
c)		emuloy libiT (e	
d)	Accessory	d) Residual volumu	
14. V	omiting has excitatory effect of which	neurotransmitter?	
a)	Dopamine	a) Work of broathing	
b)	Histamine	 Elosing capitally 	
c)	Acetylcholine	c) Compliance	
d)		d) Fundhoral residual capacity	
15 W	hat is the CSF pressure in multiple sc	elerosis on lumbar puncture?	
	Increased	a) Casilla	
	Decreased	a) tosina	
c)			
	Normal	c) Estamytocagon d) Vesambensin	
u	1.101111111	DISTENSE OF THE PROPERTY OF TH	

16. Which is the site of haematopoiesis at the time of birth?
a) Liver
b) Spleen
c) Bones
d) Yolk sac
17. What is the normal life span of red blood cells?
a) 10 days
b) 90 days
c) 45 days
d) 120 days
18. Which of the following is not a vitamin K dependent clotting factor?
a) XI
b) II
c) VII
d) IX
 All of the following are Type II autoimmune polyglandular syndromes except -
a) Pernicious anemia
b) Addison's disease
c) Vitiligo
d) Type I diabetes mellitus
On NR 1 Cd. C.U
20. Which one of the following conditions does not have normal T4 levels?
a) T3-hyperthyroidism
b) Sub-clinical hyperthyroidism
c) Secondary hypothyroidism
d) Subclinical hypothyroidism
21 All of the following are the equippe features of groves, dispass except
21. All of the following are the ocular features of graves' disease except -
a) Exophthalmos
b) Enophthalmos
c) Lid lag
d) Ophthalmoplegia
22. Which of the following diseases belongs to Fredrickson type III hyperlipidemia?
a) Familial hypercholesterolemia
b) Familial combined hyperlipidemia
c) Remnant hyperlipidemia
d) Plurimetabolic syndrome
23. Which apolipoprotein is synthesized in intestines?
a) AI
5
b) B ₁₀₀
c) CII
d) E

c)	Pravastatin
	Atorvastatin
25. W	hich one of the following is not a free sugar?
a)	Cellulose
b)	Sucrose
c)	Lactose
d)	Maltose
	hat is the body mass index in extreme obesity?
a)	18.5-24.9
b)	25.0-29.9
c)	30.0-39.9
d)	> 40
27 AI	l of the following are conditionally essential amino acids except -
	Tryptophan
	Cysteine
100	Tyrosine
	Glycine
u)	Giyene
28. A	small solid elevation of skin, less than 0.5 cm in diameter is called as -
a)	Macule
b)	Papule
c)	Plaque
d)	Papilloma
29. W	hich of the following is skin disease associated with generalized pruritus?
	Urticaria
1.5	Scabies
	Lichen planus
	Xeroderma
	hich of the following conditions runs within the family?
a)	Seborrheic eczema
b)	Discoid eczema
c)	Asteatotic eczema
d)	Atopic eczema
31. Bo	one gain effect in bone remodeling is caused by all except -
	Glucocorticoids
b)	
c)	
d)	
u)	1412-11110-1111 33-1111-9

24. All of the following are HMG CoA reductase inhibitors except -

a) Colestipolb) Simvastatin

32. \	Which of the following does not present as periarticular lesion in elbow pain?
) Tennis elbow
b	De quervain's tenosynovitis
	Golfer's elbow
d) Olecranon bursitis
33. /	All of the following are features of osteoarthritis except -
) Heberden's nodes
b) Bouchard's nodes
c) Baker's cyst
d) Thumb-base squaring
34. A	all of the following are neurotic disorders except -
a) Panic disorder
b) Post-traumatic stress disorder
C) Neurasthenia
d) Manic and bipolar disorder
35. V	Which of the following conditions does not belong to functional psychosis?
a) Delirium tremens
b) Severe depression
c) Mania
d) Schizophrenia
36. V	Which one is not a symptom of somatic depressive disorder?
a	Reduced appetite
b) Anhedonia
c)	Loss of libido
ď) Fatigue
37. W	which of the following diseases does not have transplacental route of transmission?
a	Rabies
b) Rubella
c)	Cytomegalovirus infection
ď) Syphilis
38. W	/hich vaccine is a toxoid?
a)	Measles
b) Poliomyelitis
c)	Meningococcal A and C
ď) Diphtheria

- a) Severe pharyngeal oedema
- b) Antibiotic induced rash
- c) Chronic fatigue syndrome
- d) Agammaglobulinemia

40. Al	l of the following are musculoskeletal manifestations of brucellosis except -
	Myocarditis
b)	Synovitis
	Osteomyelitis
	Psoas abscess
41. W	eil's disease is seen in –
a)	Toxoplasmosis
	Leptospirosis
	Cytomegalovirus infection
	Borreliosis
42. W	hich is not a recognized form of infection with Bacillus anthracis -
	Cutaneous
b)	Gastrointestinal
c)	Renal
d)	Pulmonary
43. Al	l are herpes type I infections except –
	Cold sores
b)	Whitlows
c)	Genital infections
d)	Burkitt's lymphoma
44. W	hich one of the following is a non-infectious cause of bloody diarrhoea?
	Intussception
7.0	Non-typhoidal salmonellae
100	Entero-invasive E. coli
d)	Vibrio parahaemolyticus
45. Se	xual form of malarial parasite is –
a)	Sporozoite
b)	Gametocyte
c)	Merozoite
d)	Hypnozoite
46. W	hat is the loading dose of quinine in the treatment of P. falciparum malaria?
a)	10 mg/kg
b)	15mg/kg
c)	20 mg/kg
d)	5 mg/kg
47. W	hich of the following is not a rickettsial fever?
a)	Rocky mountain spotted fever
b)	Scrub typhus
c)	Epidemic typhus

d) Yellow fever

- 48. Hook worm infection is caused by
 - a) Necator americanus
 - b) Strongyloidesstercoralis
 - c) Ascaris lumbricoides
 - d) Enterobius vermicularis
- 49. Which of the following is not a feature of early congenital syphilis?
 - a) Maculo-papular rash
 - b) Neurosyphilis
 - c) Condylomata lata
 - d) Mucus patches
- 50. Which one of the following is not a route of transmission of HIV?
 - a) Vertical
 - b) Sexually
 - c) Touch
 - d) Needle sharing

SECTION - B

Answer any 3 (three) of the following questions: (3X6=18)

- With the help a suitable diagram, describe the coronary circulation and the conduction system of heart.
- Describe the bronchopulmonary segments of lung with their applied clinical importance.
- Define peptic ulcer. Elaborate the etiology, pathology, clinical features and management of gastric ulcer.
- Explain the etiopathogenesis, clinical features and management of chronic pyelonephritis.
- 5. Classify epilepsy. Write a short note on the management of epilepsy. What is status epilepticus?

SECTION - C

Answer any 2 (two) of the following questions: (2X16=32 marks)

- Define heart failure. Explain the pathophysiology, types, clinical features, management and complications of heart failure.
- Define bronchial asthma. Describe the etiology, pathophysiology, clinical features and management of bronchial asthma.
- What is gastro esophageal reflux disease? Elaborate the pathophysiology, clinical features, management and complications of gastro esophageal reflux disease.
- Discuss the pathogenesis, clinical features, diagnosis, management and complications of malaria. Write a note on the life cycle of malarial parasite.

PEDIATRICS

SECTION - A

Choose the correct answers for the following questions: (50X2=100)

1.	Toddler	belongs	to	which	growth	period?
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- a) 1-3 yrs
- b) 3-6 yrs
- c) 6-12 yrs
- d) First year

2. The child sits in tripod position (with own support) at what age?

- a) 6 months
- b) 3 months
- c) 5 months
- d) 8 months

3. A child develops bidextrous reach at what age?

- a) 6 months
- b) 4 months
- c) 9 months
- d) 12 months

4. A child waves 'bye bye' at what age?

- a) 3 months
- b) 6 months
- c) 9 months
- d) 12 months

5. All of the following are disorders of humoral immunodeficiency except-

- a) IgA deficiency
- b) IgG sub-class deficiency
- c) Transient hypogammaglobulinemia of infancy
- d) Hyper IgM syndrome

6. A state of protection from the disease due to the presence of antibody is called as-

- a) Seroprotection
- b) Seroconversion
- c) Immunogenicity
 - d) Vaccine effectiveness

7. Which of the following are live attenuated vaccines except-

- a) BCG
- b) Rabies
- c) OPV
- d) Varicella

a) Azithromycin	
b) Acyclovir	
c) Ceftriaxone	
d) Benzathine penicillin	
9. What is the age group for early puberty?	
a) 17-19 years	
b) 14-16 years	
c) 8-10 years	
d) 10-13 years	
10. All are the mental health problems faced by adolescents except-	
a) Anorexia nervosa	
b) Anxiety disorder	
c) Adjustment disorder	
d) Delinquent behavior	
11. Which of the following is not a social challenge faced by adolescents?	
a) Increased use of personal electronic gadgets	
b) Pollution	
c) Peer pressure	
d) Early marriage	
12. All of the following are signs of left-sided heart failure except-	
a) Jugular venous engorgement	
b) Tachpnea	
c) Tachycardia	
d) Rales in chest	
13. Heart assumes the four chambered shape by when in intrauterine life?	
a) 10 th week	
b) 6 th week	
c) 8 th week	
d) 4 th week	
14. Which of the following is not a left to right shunt?	
a) ASD	
b) VSD	
c) MR	
d) PDA	
15. For the assessment of congenital heart disease, Nadas' criteria require-	
a) One major or one minor	
b) Two major or two minor	
c) Two major or one minor	
d) One major or two minor	

8. Which of the following is the treatment option for gonorrhea?

- 16. Extra thoracic obstruction produces a) Inspiratory sounds b) Expiratory sounds c) Both inspiratory and expiratory sounds d) Crepts
- 17. All of the following are features of tracheal obstruction except
 - a) Expiratory stridor
 - b) Normal cry
 - c) Less severe dyspnea
 - d) Brassy cough
- 18. Which of the following is not a feature of severe acute laryngotracheobronchitis?
 - a) Restless appearance
 - b) Stridor at rest
 - c) Marked tachypnea
 - d) Room air SpO2 > 92%
- 19. Which of the following is not an inhaled corticosteroid?
 - a) Formoterol
 - b) Fluticasone
 - c) Budesonide
 - d) Beclomethasone
- 20. All are non-gastrointestinal causes of vomiting except
 - a) Raised ICP
 - b) Hepatitis
 - c) Diabetes ketoacidosis
 - d) Drug induced
- 21. All of the following are anorectal causes of constipation except
 - a) Anteriorly placed anus
 - b) Anal stenosis
 - c) Hirschprung disease
 - d) Sacral teratoma
- 22. Which is not a bacterial cause of acute diarrhea?
 - a) E. coli
 - b) Bacillus cereus
 - c) S. sonnei
 - d) Giardia lamblia
- 23. All are features of small bowel diarrhea except
 - a) Blood in stool
 - b) Steatorrhea
 - c) Periumbilical pain
 - d) Offensive smell of stool

04 3371.1	h of the following test involves phosphate as a substrate?
	lood anion gap
	lood parathormone finimum urinary pH
	lasma ADH
d) P	lasma ADA
25. All a	re glomerular causes of hematuria except -
a) P	ost-infectious glomerulonephritis
	gA nephropathy
c) (Cystic renal disease
d) N	Membranoproliferative glomerulonephritis
26. Which	ch of the following is not a feature of non-glomerular hematuria?
	Dysuria
	amily history of calculi
c) F	RBC casts in urine are absent
	Typertension
27 Whi	ch one of the following is associated with tubular proteinuria?
27. WIII	Renal tubular acidosis
	Nephrotic syndrome
	Amyloidosis
	Alport syndrome
28 Whi	ch of the following is not an adverse effect of prednisolone?
	Cushingoid habitus
	Leukopenia
	Hypertension
	Short stature
29. All	are the causes of convulsions in the neonatal period (7-30 days) except -
	Hypocalcemia
b)	Hypomagnesemia
	Inadvertent injection of LA into fetal scalp during paracervical block
d)	Tetanus neonatorum
	at is the initial dose of diazepam for the management of acute seizures in pediatric
	ents?
	00.5 mg/kg
	0.1-0.4 mg/kg
The state of the s	0.1-0.2 mg/kg
d)	0.1-0.3 mg/kg

- 31. What is the maintenance infusion rate of pentobarbital for the treatment of refractory status epilepticus? a) 1-5 mg/kg/hr b) 2-10 mg/kg/hr c) 0.1-1 mg/kg/hr d) 3-5 mg/kg/hr 32. Which one of the following is a side effect of phenytoin? a) Bone marrow depression b) Hirsutism c) Photophobia d) Hypercortisolism
 - 33. According to WHO, anemia in children 6 months to 5 years is defined as Hb
 - a) <10 g/dl
 - b) <11.5 g/dl
 - c) <11 g/dl
 - d) <12 g/dl
 - 34. All are inborn errors of folate metabolism except
 - a) Congenital folate metabolism
 - b) Dihydrofolate reductase deficiency
 - c) N-methyl tetrahydrofolate homocysteine methyl transferase deficiency
 - d) Methyl malonic aciduria
 - 35. Which one of the following is acquired cause of hemolytic anemia?
 - a) Malaria
 - b) Hemoglobinopathies
 - c) Red cell membrane defects
 - d) Lipid membrane defects
 - 36. Which one of the following is an inherited coagulation disorder?
 - a) Liver disease
 - b) Von Willebrand disease
 - c) Vitamin K deficiency
 - d) Warfarin overdose
 - 37. All are congenital causes of growth hormone deficiency except
 - a) Isolated GH deficiency
 - b) Pituitary aplasia
 - c) Histiocytosis
 - d) Anencephaly
 - 38. All are the causes of polyuria due to impaired urinary concentration except
 - a) Septo-optic dysplasia
 - b) Head trauma
 - c) Craniopharyngioma
 - d) Diabetes mellitus

39. Which one of the following is not a primary cause of hypothyroidism?
a) Germinoma
b) Aplasia
c) Radiation
d) Endemic goiter
40. All are the causes of hypocalcemia due to the deficiency of ionic calcium except-
a) Phosphate load
b) Wilson disease
c) Tumor lysis
d) Rhabdomyolysis
41. Which of the following is not a feature of aminoacidopathies?
a) Ketosis
b) Normal plasma lactate
c) Marked acidosis
d) Normal plasma NH ₃
42. What is the loading dose of L-arginine for the management f hyperammonemia?
a) 200 mg/kg
b) 400 mg/kg
c) 300 mg/kg
d) 600 mg/kg
43. All are the features of gray matter diseases except -
a) Late childhood
b) Microcephaly
c) Retinal degeneration
d) Normal EMG
44. Which enzyme defect is present in von Gierke disease?
a) Amylo-1,6-glucosidase
b) Glucose-6-phosphatse
c) Brancher enzyme
d) Liver phosphorylase
45. Which of the following is not an infectious cause of fever of unknown origin?
a) Enteric fever
b) Malaria
c) Polyarteritis nodosa
d) Kala azar
46. In which of the following diseases macular rash is absent?
a) Measeles
b) Rubella
c) Dengue
d) Kawasaki disease

SECTION - B

- 47. Which one is the cause of false-negative Mantoux test?
 - Answer any 3 (three) of the following questions: (3X6=1810) (a
 - b) BCG vaccination
 - c) Infection at the site of test
 - d) Infections due to atypical mycobacteria
- 48. What is the dose of isoniazid in children with tuberculosis?
 - a) 10-20 mg/kg/day differences between fetal and post-natal circulation?
 - b) 10-15 mg/kg/day

 - c) 20-25 mg/kg/day 3. Describe the clinical features, differential diagnosis
 - d) 15-25 mg/kg/day acute tonsillopharyngitis.
- 49. The dose of pentavalent antimony for the treatment of visceral leishmaniasis is
 - a) 1 mg/kg alternate day
 - b) 2 mg/kg/day
- c) 20 mg/kg/day Explain the pathology, clinical features, diagnosis and ma d) 2.5 mg/kg/day streprococcal glomerulonephritis.
 - 50. The dose of tinidazole for the treatment of giardiasis is -

SECTION - C

- a) 5-10 mg/kg
- b) 10-15 mg/kg
- c) 1.5 mg/kg
- d) 50 mg/kg

Answer any 2 (two) of the following questions: (2X16=32)

- Classify congenital heart diseases. What are the Nadas orirora for the assessment of severity? Explain the hemodynamics, clinical features, complications and management of ventricular septal defect.
- 2. Explain in detail the pathophysiology, pathology, clinical features, diagnosis and management of a child with bronchial asthma-
- 3. Describe the causes, risk factors, pathogenesis, assessment, clinical features and management of a child with acute diarrhea
- 4. Describe the clinical features, diagnosis and nanagement of a child with minimal change nephrotic syndrome? Discuss about the management of a case of relanse?

SECTION - B

Answer any 3 (three) of the following questions: (3X6=18)

- 1. Explain in detail the various factors affecting the development of a child.
- 2. Briefly explain fetal circulation with the help of a suitable diagram. What are the differences between fetal and post-natal circulation?
- Describe the clinical features, differential diagnosis and management of a case of acute tonsillopharyngitis.
- Describe the etiopathogenesis, clinical features and management of Hirschsprung disease.
- Explain the pathology, clinical features, diagnosis and management of a case of poststreptococcal glomerulonephritis.

SECTION - C

Answer any 2 (two) of the following questions: (2X16=32)

- Classify congenital heart diseases. What are the Nadas criteria for the assessment of severity? Explain the hemodynamics, clinical features, complications and management of ventricular septal defect.
- Explain in detail the pathophysiology, pathology, clinical features, diagnosis and management of a child with bronchial asthma.
- Describe the causes, risk factors, pathogenesis, assessment, clinical features and management of a child with acute diarrhea.
- 4. Describe the clinical features, diagnosis and management of a child with minimal change nephrotic syndrome? Discuss about the management of a case of relapse?