

KENYA MEDICAL TRAINING COLLEGE FACULTY OF CLINICAL SCIENCES DEPARTMENT OF CLINICAL MEDICINE

FINAL QUALIFYING EXAMINATION FOR DIPLOMA IN CLINICAL MEDICINE AND SURGERY

PAPER: PAEDIATRICS

DATE: 29th July, 2021

TIME: 3 HOURS (9:00AM - 12:00 NOON)

INSTRUCTIONS

- 1. This paper consists of:
 - Section 1 (40 Multiple Choice Questions)
 - Section 2 (8 Short Answer Questions)
 - Section 3 (1 Long Answer Question)
- 2. Attempt ALL Questions
- Write the EXAMINATION NUMBER given on all the answer sheets provided and on the question paper.
- 4. Ensure that all examination answer scripts are handed in at the end of the examination
- 5. Ensure you sign the examination register provided

EVAMINATION NUMBER	

PAEDIATRICS

SECTION 1: MULTIPLE CHOICE QUESTIONS - (40 MARKS)

- 1. In congestive cardiac failure, which of the following is a cardinal feature in infants?
 - a) pedal edema
 - b) tachycardia
 - c) bradycardia
 - d) arrhythmias
- 2. Which of the following is a side effect of gentamycin?
 - a) Steven Johnson Syndrome
 - b) Gum hypertrophy
 - c) ototoxicity
 - d) adrenal failure
- 3. Which of the following conditions is highly infectious in children?
 - a) tuberculosis
 - b) tetanus
 - c) bronchiolitis
 - d) asthma
- 4. About diabetic ketoacidosis, which statement is true?
 - a) may cause cerebral edema
 - b) rarely occurs in newly diagnosed children
 - c) is associated with hypotonic dehydration
 - d) severe acidosis is irreversible.
- 5. In regards to IMCI which of the following is not a danger sign?
 - a) inability to feed√
 - b) hyperpyrexia
 - c) convulsing
 - d) vomiting everything
- 6. Early neonatal infections can be prevented by all the following except
 - a) hand washing
 - b) chlorhexidine cream for cord care
 - c) prophylactic antibiotics to all babies
 - d) keeping the child warm
- 7. Which of the following is an important cause of neonatal jaundice
 - a) prematurity
 - b) sickle cell disease
 - c) congenital heart disease
 - d) Hyperthyroidism
- 8. Which of the following is a normal developmental milestone?
 - a) smiles at 6 weeks
 - b) can stand at 7 months

- c) says mama or dada at 9 months with meaning
- d) pincer grasp by 6 months
- 9. Measles vaccine
 - a) contraindicated in HIV
 - b) is a toxoid
 - c) is live attenuated
 - d) is administered at 8 months
- 10. The least likely cause of death is severe acute malnutrition is
 - a) dehydration
 - b) hypothermia
 - c) hypogycaemia
 - d) flaky paint dermatitis
- 11. which of the following is not a cause of haematuria in children
 - a) schistosoma haematobinum
 - b) trauma
 - c) acute glomerulonephritis
 - d) beverages
- 12. The following present with stridor except
 - a) epiglottitis
 - b) LTB
 - c) pneumonia
 - d) retropharyngeal abscess
- 13. One of the following is not a feature of infective endocarditis
 - a) changing heart murmurs
 - b) petechiae Haemorrhage
 - c) macroscopic haematuria
 - d) osler nodes
- 14. The following are features of WHO paediatric HIV clinical state III except
 - a) Hairy leucoplakia
 - b) Angular cheilitis
 - c) Pulmonary tuberculosis
 - d) Unexplained persistent fever /
- 15. Which of the following is not a behavioural disorder
 - a) thumb sucking
 - b) enuresis
 - c) eucopresis
 - d) syncope
- 16. One of the following is not an emergency sign in triage
 - a) central cyanosis
 - b) cold hands
 - c) temperature >39°C
 - d) convulsing
- 17. F-75 used in the initial phase in management of malnourished children stands for
 - a) food with 75gms of protein



- b) formulae feeds with 75kcl/100mls
- c) feeding the child 75 times a day.
- d) formulae was introduced in the market in 1975
- 18. All are features of neonatal tetanus except
 - a) trismus
 - b) Dirty cord
 - c) muscle spasms
 - d) ability to breastfeed.
- 19. Which of the following is contraindicated in treatment of kerosene poisoning
 - a) oxygen
 - b) gastric lavage
 - c) antibiotics
 - d) feeds
- 20. A four year old child with circumscribed hair loss, scaling and itching of the scalp
 - a) start the child on Amphotericin B
 - b) he has tinea corporis
 - c) it is a hereditary phenomenon;
 - d) griseofulvin is the drug of choice
- 21. congenital malformations can be prevented by all except
 - a) malaria prophylaxis in pregnancy
 - b) vaccinations
 - c) copious intake of alcohol during first trimester
 - d) supplementation
- 22. Cerebral palsy
 - a) hyperactivity is a feature
 - b) is a non-progressive motor deficit disorder
 - c) speech development is normal
 - d) diagnosis is by a skull x-ray
- 23. Which of the following is not a predisposing factor of child abuse?
 - a) mental retardation
 - b) post-traumatic stress disorder (PTSD)
 - c) domestic violence
 - d) stable families
- 24. Common causes of prolonged neonatal jaundice include the following except
 - a) congenital hypothyroidism
 - b) biliary atresia.
 - c) ABO incompatibility
- d) neonatal hepatitis 25. Anaemia in the newborn may be caused by the following except
- a) haemophilia.

 - b) birth trauma
 - c) foetal maternal transfusion
 - d) blood group incompatibility,

- 26. Which of the following is a cyanotic heart disease
 - a) ventricular septal defect
 - b) tetralogy of fallot
 - c) atrial septal defect
 - d) patient ductus arteriosus
- 27. Which of the following is not a feature of severe pneumonia
 - a) oxygen saturation of >90%
 - b) grunting
 - c) inability to drink
 - d) cyanosis
- 28. In regard to neonatal resuscitation, which statement is not true
 - a) head positioning is crucial for airway management
 - b) the ratio of cardiac compression to ventilation is 3:1
 - c) monitor pulse rate regularly
 - d) IV adrenaline is recommended is the baby is gasping
- 29. All the following are metabolic complications of an infant of a diabetic mother except
 - a) hypoglycaemia
 - b) hyperglycaemia
 - c) hypocalcaemia
 - d) hypomagnesemia
- 30. Which of the following is a feature of acute glomerulonephritis
 - a) polyuria
 - b) normal blood pressure
 - c) hypotension
 - d) oliguria
- 31. About nephrotic syndrome, which one is true?
 - a) hyperalbuminemia is a feature+
 - b) most idiopathic cases lead to minimal change lesions
 - c) blood lipids are reduced+
 - d) steroids have no role in managements.
- 32. The following is a major criterion in Rheumatic fever
 - a) fever
 - b) increased ESR
 - c) migratory polyarthritis
 - d) elevated C-reactive protein
- 33. Geographical origin of a child will help in the diagnosis of:
 - a) Whooping cough
 - b) Kala-azar
 - c) Tuberculosis
 - d) Covid-19
- 34. The following organisms cause acute diarrhea except
 - a) Escherichia Coli

- b) Rota Virus
- c) Shigella
- d) Klebsiella
- 35. Which of the following conditions causes massive spleenomegally
 - a) Acute myeloid leukaemia
 - b) sickle cell anaemia
 - c) Tuberculosis
 - d) Typhoid Fever
- 36. Risk factors for mother to child transmission of HIV include all except
 - a) advanced maternal disease
 - b) low CD4 counts
 - c) mixed feeding
 - d) prolonged rupture of membranes more than 6 hours
- 37. Side effects of isoniazid
 - a) optic neuritis+
 - b) peripheral neuropathy
 - c) Ref colored urine
 - d) Gum hypertrophy
- 38. In pyogenic meningitis, one of the investigations is true concerning CSF analysis
 - a) polymorphs are increased
 - b) protein is 0.4 gm/l
 - c) sugar is >2.5mml/L
 - d) clear colour
- 39. Spina bifida occulta present with all the following except
 - a) Lipoma
 - b) tuff of hair /
 - c) flaccid paralysis
 - d) dimple ✓
- 40. Differential diagnosis of a floppy infant:
 - a) Downs Syndrome
 - b) underweight L
 - c) Turner's syndrome
 - d) hyperthyroidism



SECTION 2: SHORT ANSWER QUESTIONS - (40 MARKS)

 Exclusive breast feeding is recommended in the first 6 months in infants a) List four advantages of breast feeding b) Outline four signs of good attachment you would look for when a baby breastfed 	(2 marks) is being (3 marks)
2. An eight-month old infant is brought to the OPD with a history of having 10 stool in the last 24 hours and 3 bouts of vomiting in the last 3 hours. There is stool. On examination she is weak, unable to suckle, eyes are deeply sunkengoes back more than 2 seconds	IIO DIOCCE III
b) What immediate treatment do you give this child	(1 mark) (4 marks)
 3. A 2_{1/2} year-old child weighing 13kg is brought to outpatient convulsing a) What are your immediate concerns, outline two b) If the convulsion does not stop by 10 minutes after treatment, what act take. 	(1 mark) ion will you (4 marks)
4. A two weeks old baby is brought to the paediatric filter clinic with history of breastfeed. On examination, the temperature is 37.5°C and the umbilical core a) What is the probable diagnosis b) Outline the definitive treatment	f refusal to d has pus (1 mark) (4 marks)
5. A three year old child presents to you with a 2 day history of cough and diffine breathing. On examination the child has a temperature of 38°C and respirator cycles per minute. There is notable grunting and he is unable to feed a) What is the diagnosis?	ry rate of 48 (1 mark)
b) How would you treat this child	(4 marks)
6. A four year old child from a high risk malaria area presents with fever, histoconvulsions and inability to feed. On examination he has a temperature of 3 moderately pale. He weighs 16kg	8°C and is
a) What is the diagnosis?	(1 mark)
b) outline the treatment	(4 marks
Lorua was born three days ago. Her mother noted yellow coloration of eyes some few hours after delivery. The yellowness has spread to the whole body	s on her bay
a) What is the diagnosis	(1 mark)
b) List four important investigations you would order for this baby	(4 marks)

6.

7.

8. A six-year-old girl is brought to you with history of headache, puffiness of face which is worse in the morning and has passed tea coloured urine of reduced volume. She was treated for sore throat two weeks ago

a) What is your diagnosis?

(1 mark)

b) List four important investigations and expected results

(4 marks)

SECTION 3: LONG ANSWER QUESTIONS - (20 MARKS)

- 1. In a table format, describe the Kenya Expanded Programme on Immunization under the following headings: (20 marks)
 - i) Vaccine
 - ii) Age
 - iii) Route of administration
 - iv) Dose
 - v) Common side effects