



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2023/2024

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF CLINICAL MEDICINE AND COMMUNITY HEALTH

### CCM 3311: PAEDIATRICS AND CHILD HEALTH I

DATE: APRIL 2024

TIME: 3 HOURS

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**INSTRUCTIONS:**

Answer *All* questions

Ensure that all your answers are properly numbered

Section A short answer questions

Part B: Long answer questions

Part C: Multiple choice

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#### SECTION A: SHORT ANSWER QUESTIONS (40 MARKS)

1. Define the following term (6 marks)
    - a. Small for gestational age
    - b. Large for gestational age
    - c. appropriate for gestational age
  2. State differences between paediatric and adult history (6 marks)
  3. List the 3 main anthropometric measurements used for growth assessment in children? (3 marks)
  4. List the 5 main domains of development in assessment of milestones in children (5 marks)
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5. Define cold chain and name the 3 main components of the cold chain (5 marks)
6. Name the 4 ethical principles (4 marks)
7. Describe 5 factors that affect growth and development in paediatrics (5 marks)
8. List 6 characteristics of good health records (6 marks)

### **SECTION B: LONG ANSWER QUESTIONS (40 MARKS)**

1. You are called to labour ward to review a newborn term baby who has just been delivered. The newborn is crying and has good muscle tone. Describe your next management as per essential newborn care plan. (10 marks)
2. Rehema is 6 months old. She has been brought to the hospital for routine well child visit. Discuss the key principles of infant feeding that will advise the mother about . (10 marks)
3. Discuss the components of Apgar score and state its significance in newborn care (10 marks)
4. Otieno is 10 months old ; he has been brought to hospital due to cough and fever for 2 days. On further enquiry you find out that he is not yet able to sit, has no neck support, has widened fontanelle and wrists, his costochondral area on the ribs are prominent and he has frontal skull bossing.
  - a) What is the most likely diagnosis? (2 marks)
  - b) What laboratory tests are you going to request for and what are the expected findings as per his diagnosis? (8 marks)

### **MUTLIIPLE CHOICE QUESTIONS - CHOOSE ONE BEST ANSWER (20MARKS)**

1. The following are true regarding management of malnutrition except
  - A. Hypoglycemia is managed with 50% Dextrose infusion
  - B. Dehydration is should be managed with resomal except in hypovolemic shock
  - C. Hypothermia is a common cause of mortality and should be managed early
  - D. All patients with malnutrition should receive antibiotics
2. Which of the following is not a benefit of breastfeeding to the child?

- A. Improving immunity
  - B. Reduce newborn deaths
  - C. Prevent ovarian cancer
  - D. Better performance in school later
3. The following vaccines are given at 6 weeks except
- A. Oral polio vaccine
  - B. BCG
  - C. Pneumococcal (PCV) vaccine
  - D. Pentavalent vaccine
4. The following are good infection prevention and control practices. To break infection transmission at the portal of exit except?
- A. Hand Hygiene
  - B. Appropriate use of PPE
  - C. Isolation of infected patients
  - D. Safe packaging and disposal of waste
5. A 1 year old should be able to do the following except
- A. speak 3-word sentences
  - B. Walks by holding furniture or others' hands
  - C. May walk 1 or 2 steps without support
  - D. Stands for a few moments at a time
6. Which of the following is not true regarding failure to thrive?
- A. If untreated it leads to stunted growth
  - B. Growth percentile of baby born prematurely should be adjusted to reflect corrected gestational age through the first 2 years of life
  - C. It's a disease with only organic causes
  - D. it is associated with developmental delays if untreated
7. A preterm is

- A. A baby born before 38 completed weeks of gestation
  - B. A baby born at 36 weeks gestation
  - C. A baby born before 37 completed weeks
  - D. A baby born below 2 kg
8. To enable mothers to establish and sustain exclusive breastfeeding for 6 months; the following is recommended except?
- A. Initiation of breastfeeding within 1 hour of life;
  - B. exclusive breastfeeding for the first 6 months of life; only breastmilk
  - C. Breastfeeding on demand- as often as the child want, day and night
  - D. use feeding bottles when the mother is not available to breastfeed
9. Which of the following is not correct about laboratory findings in iron deficiency anaemia
- A. Low hemoglobin level
  - B. Low serum iron
  - C. Low total iron-binding capacity (tIBC)
  - D. Low serum ferritin
10. The following are true regarding the newborn except
- A. Administer Tetracycline Eye Ointment to newborns with eye discharge
  - B. Preterm babies should gain about 10 - 15g/kg/d of body weight every day after the first 7 days of life.
  - C. Apply Chlorhexidine digluconate 7.1% on the cord immediately after cutting the cord
  - D. Term babies gain weight at 20-30g/d.
11. Which of the following is not a stage 3 disease in HIV/AIDS?
- A. Pulmonary tuberculosis
  - B. Oral candidiasis
  - C. Papular pruritic eruptions
  - D. Prolonged unexplained diarrhea
12. Which of the following is not an aim of artificial feeding?

- A. Provide mother with a choice of not to breastfeed
  - B. To providing nutrition to the infant
  - C. To substitute breastmilk and provide nutrients approximate to the ones in breastmilk
  - D. Fulfill needs for the child for proper growth and development
13. The following vaccines are very sensitive to light and lose potency when exposed to light except?
- A. BCG vaccine
  - B. Rotavirus vaccine
  - C. Measles vaccine
  - D. Measles-rubella vaccine
14. Which of the following stages of stages of development is not matched correctly to the important event according to Eric Erickson theory of development?
- A. Infancy —feeding
  - B. Early childhood- Exploration
  - C. Adolescence- social relationship
  - D. School age- school
15. Which of the following is not a characteristic of good professionalism?
- A. Integrity and honesty
  - B. Reliability and responsibility
  - C. Sympathetic
  - D. Self-awareness and knowing own limits
16. Which of the following is not a secondary use of health records?
- A. Education of health care students
  - B. Research to develop new products
  - C. To assist in policymakers to allocate resources
  - D. Patient care management

17. Which of the following choices has the correct order of Piaget theory of cognitive development?
- A. Sensorimotor stage, Preoperative stage, concrete operational, formal operational
  - B. Sensorimotor stage, Preoperative stage, formal operational, concrete operational
  - C. Formal operational Sensorimotor stage, Preoperative stage, concrete operational
  - D. Preoperative stage, Sensorimotor stage, concrete operational, formal operational
18. The following are activities that aim at secondary prevention of disease except
- A. Population-based screening programs for early detection of diseases
  - B. Vaccination of children
  - C. Provision of maternal and child health programs, including screening and prevention of congenital malformations
  - D. Provision of chemo-prophylactic agents to control risk factors (e.g., hypertension)
19. Which of the following is false regarding prevention of mother to child transmission of HIV?
- A. All pregnant women, unless known positive, should be counseled and tested for HIV
  - B. All pregnant and breastfeeding women living with HIV should be initiated lifelong ART
  - C. ART should be started as soon as possible, ideally on the same day HIV diagnosis is made
  - D. HIV positive mothers should not be allowed to breastfeed their baby to reduce the risk of transmission
20. The following statements is not true regarding vitamin K in newborn
- A. All babies born in hospital should receive Vitamin K soon after birth
  - B. All infants aged <14 days should receive Vitamin k at admission unless earlier given
  - C. All babies should be vitamin K intravenously
  - D. All babies born at premature should also receive vitamin K