



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

THIRD YEAR, TRIMESTER II EXAMINATIONS
FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN PHYSIOTHERAPY

COURSE CODE: BSP 313

COURSE TITLE: CHILD HEALTH

DATE: FRIDAY 22ND APRIL 2022 TIME: 2:00-5:00 PM

INSTRUCTIONS TO CANDIDATES

Answer all Questions

Sec A: Multiple Choice Questions

Sec B: Short Answer Questions

Sec C: Long Answer Questions

(MCQ) (20 Marks)

(SAQ) (40 marks)

(LAQ) (40 marks)

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 5 Printed Pages. Please Turn Over.

SECTION A: MULTIPLE CHOICE QUESTIONS

(20 Marks)

1. Premature newborn born before full weeks of gestational period:
 - A. 35 weeks
 - B. 36 weeks
 - C. 37 weeks
 - D. 38 weeks
 - E. 39 weeks
2. What time after birth is it possible to put healthy newborn to the mother's breast?
 - A. In 4 hrs
 - B. At once after birth in maternity room
 - C. In 24 hrs
 - D. In 6 hrs
 - E. In 12 hrs
3. When we estimate general condition of newborn according to Apgar scale?
 - A. On the 1st and 5th minute of baby life
 - B. On the 1st, 2nd and 5th minute of baby life
 - C. On the 2nd and 5th minute of baby life
 - D. On the 5th and 10th minute of baby life
 - E. On the 10th and 30th minute of baby life
4. When does the child begin to stand with support? In age of:
 - A. 2-3 month
 - B. 6-8 month
 - C. 10-12 month
 - D. 4-5 month
 - E. 12-14 month
5. What reflex has two phases?
 - A. Galant's reflex
 - B. crawling reflex (of Bauer)
 - C. Robinson's reflex
 - D. Moro reflex
 - E. palm-mouth reflex (of Babkin)
6. An infant born at 39 weeks gestation weighing 2000g should be classified us:
 - A. Low birth weight
 - B. Premature
 - C. Small for gestation age
 - D. Low birth weight and small for gestation age
 - E. Premature and small for gestation age
7. Following the closed head injury in a child. Which of the following would be most ominous?
 - A. Irritability
 - B. Vomiting
 - C. Dilated fixed pupils
 - D. Amnesia for the event
 - E. Drowsiness
8. After being lifted by one hand a young toddler refuses to use that arm and holds it against her trunk flexed at the elbow and the forearm midway between pronation and supination. The child most likely has:

- A. A shoulder dislocation
B. A radial; head subluxation
C. A fracture of a carpal bone
D. Avulsion of the ulnar nerve
E. A fracture of the radius
9. Which of the following represents the greatest percentage of calories in unmodified cow milk?
A. Carbohydrates
B. Protein
C. Fat
D. Cholesterol
E. Whey (Milk serum)
10. The number of primary teeth that generally erupt in children, by 3 years of age is:
A. 4
B. 8
C. 12
D. 16
E. 20
11. Disruptive behavior disorders constitute a group of behavior problems that are symptomatic of diverse underlying problems. which of the following is correct regarding these disorders?
A. They are equally common in both boys and girls
B. Significant stealing occurs in approximately 5% of children
C. They don't include attention deficit hyperactive disorder
D. They are strongly associated with childhood asthma
E. Major depressive disorder in children
12. Major depressive disorder in children
A. Is not diagnosed before 6 years of age
B. Is seen in less than 1% of pediatric inpatients
C. Can be associated with rumination. Enuresis and encopresis
D. Should not be screened for by the primary care pediatrician
13. Which of the following is a criterion for the diagnosis of learning disorder?
A. Above average intelligence
B. Reversal of the letter in writing
C. Absence of emotional behavior or motivational problems
D. Discrepancy between intelligence and achievement in one or more areas
E. Evidence of visual or auditory perception defects
14. Ordinarily the 1st dose of the live attenuated measles vaccines should be administered when?
A. At 2 months of age
B. At 6-9 months of age
C. At 12 – 15 months of age
D. At 24 months of age
E. At the time of school entry
15. Mosquitoes are recognized vectors in the transmission of encephalitis caused by which virus?
A. Arbovirus
B. Coxsackievirus
C. Enterovirus
D. Influenza virus
E. Mumps virus
16. Which statement about anorexia nervosa is true?
A. A hyperchloremic acidosis often occurs
B. The death rate is about 2%
C. Amenorrhea is rare
D. Constipation is a common problem

17. A previously healthy 4-month-old infant develops generalized weakness with difficulty in suckling, swallowing, crying and breathing. No fever is present. Which of the following is the most likely diagnosis?
- A. Botulism
 - B. Hypocalcemia
 - C. Hypothyroidism
 - D. Poliomyelitis
 - E. Encephalitis
18. A 12-year-old develops jaundice, progressive tremors, and emotional lability. You are most likely to find which of the following during physical examination?
- A. Head circumference greater than 95th percentile
 - B. Brown/yellow discoloration of the limbic region of the cornea
 - C. Bilateral conductive hearing loss
 - D. Generalised lymphadenopathy
 - E. Sacral hair tuft and dimple
19. Which of the following manifestation is required to make a diagnosis of attention deficit hyperactive disorder?
- A. Occurrence before the age of 10 years
 - B. Concurrent learning disability
 - C. Impulsivity
 - D. History of birth trauma
 - E. A sibling with the diagnosis of ADHD
20. A previously healthy 5-year-old child develops a limp and complains of hip pain. The most likely cause is:
- A. Septic arthritis
 - B. Slipped capital femoral epiphysis
 - C. Transient synovitis
 - D. Osteosarcoma
 - E. Juvenile rheumatoid arthritis

SECTION B: SHORT ANSWER QUESTIONS

(40 Marks)

1. Deliberate why pediatrics are predominately nasal breathers
2. Discuss why childhood fractures heal at a faster rate than adults
3. Write on the unique precautions you observe while performing chest physiotherapy in pediatric patients
4. A 6-year-old is diagnosed with sensory deficit perception affecting the proprioception sense. Outline the dysfunction you would expect to be present
5. Associate how paternal depression is a risk factor for child abuse
6. Reflect on how you would improve communication between you and a 14-year-old client of yours.
7. Discuss the physiotherapy interventions you would utilize in an adolescent who presents with painful menorrhhea affecting the pelvic and lumbar spine
8. Discuss the clinical manifestations of drug abuse to the musculoskeletal system

SECTION C: LONG ANSWER QUESTIONS

(40 Marks)

A 12-month-old Baby O. has been referred from Kalchonjo clinic accompanied by his mother presenting with the inability to stand. He is calm but is unable to support himself independently in sitting. Baby O was breastfed for up to 6 months and his immunization is up to date until 12 months

Physical Assessment

- Generalized body weakness, floppy
- ROM - hypermobile
- Facial features - eyes slant, small ears, protruding tongue,
- Stature -- short also the neck
- Limbs – small hands and feet

Diagnosis:

1. Write in full the musculoskeletal assessment including the neonatal reflexes that you would perform to Baby O
2. Plan the specific musculoskeletal physiotherapy management of Baby O using the ICF model