



**AMREF INTERNATIONAL UNIVERSITY  
SCHOOL OF MEDICAL SCIENCES  
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES  
END OF JANUARY-APRIL SEMESTER 2023 EXAMINATIONS**

**BSM 312: NORMAL NEWBORN**

**DATE: 11<sup>TH</sup> APRIL 2023**

**DURATION: 2 HOURS**

**START: 2:00 PM**

**FINISH: 4:00 PM**

**INSTRUCTIONS**

1. This exam is out of 70 marks.
2. This Examination comprises THREE Sections.  
Section A: Multiple Choice Questions (20 marks)  
Section B: Short Answer Questions (30 marks) and  
Section C: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.
5. Any form of examination cheating will lead to the cancellation of the examination.

SECTION A: MULTIPLE CHOICE QUESTIONS (20 MARKS)

1. The loss of heat through the flow of heat from the body of the newborn baby to the surrounding air is known as: -
  - A. Convection
  - B. Radiation
  - C. Evaporation
  - D. Conduction
  
2. Vitamin K can be administered: -
  - A. Intramuscularly
  - B. Subcutaneously or orally
  - C. Intradermally or orally
  - D. Intravenously or orally
  
3. The normal breathing rate in a newborn infant is: -
  - A. 30 - 60 beats per minute
  - B. 60 – 90 beats per minute
  - C. Greater than 30 minutes per minute
  - D. Less than 90 beats per minute
  
4. Normal birthweight of a newborn infant ranges between: -
  - A. 2400-3400 grams
  - B. 2400-3900 grams
  - C. 2500-3500 grams
  - D. 2500-4000 grams
  
5. On average the length of a normal newborn infant is: -
  - A. 40 centimeters
  - B. 50 centimeters
  - C. 60 centimeters
  - D. 70 centimeters
  
6. The characteristic uterine posture acquired by a normal newborn infant is referred to as: -
  - A. Full flexion
  - B. Full extension
  - C. Partial extension
  - D. Partial flexion
  
7. On average the head circumference of a normal newborn infant is: -
  - A. 25 centimeters
  - B. 35 centimeters
  - C. 45 centimeters
  - D. 55 centimeters

8. Caput Succedaneum is defined as: -
- A. Oedema of the scalp at the presenting part
  - B. Collection of blood between the periosteum of the skull and the bone itself.
  - C. Molded vertex of the baby's head
  - D. Unmoulded vertex of the baby's head
9. Full vaccination coverage of childhood immunizations in Kenya is attained at: -
- A. 9 months
  - B. 18 months
  - C. 12 months
  - D. 20 months
10. The breast nodules of a newborn infant are palpable measuring: -
- A. At least 5 millimetres
  - B. Utmost 5 millimeters
  - C. Utmost 4 millimeters
  - D. Utmost 8 millimeters
11. The abdomen of a normal newborn infant is prominent, and a protrusion is a sunken appearance suggests: -
- A. Abdominal organ malformation
  - B. Missing abdominal organs
  - C. Normal abdominal organs
  - D. A normal characteristic of the newborn infant
12. Bowel sounds of a normal newborn infant should be present within: -
- A. Two hours after birth
  - B. Three hours after birth
  - C. Six hours after birth
  - D. One hour after birth
13. Rotavirus vaccinations are administered at: -
- A. 6, 10, and 14 weeks of childbirth
  - B. 6 and 10 weeks of childbirth
  - C. 10 and 14 weeks of childbirth
  - D. 6 and 14 weeks of childbirth
14. Pneumococcal conjugate vaccinations are administered at: -
- A. 6, 10, and 14 weeks of childbirth
  - B. 6 and 10 weeks of childbirth
  - C. 10 and 14 weeks of childbirth

D. 6 and 14 weeks of childbirth

15. The stomach of a normal newborn infant can hold up to: -

- A. An average of 40-50 milliliters
- B. An average of 40-60 milliliters
- C. An average of 50-60 milliliters
- D. An average of 70-80 milliliters

16. Newborn infants should void within the: -

- A. 24 hours after birth
- B. 6 hours after birth
- C. 12 hours after birth
- D. 36 hours after birth

17. Newborn infants void approximately: -

- A. 10 milliliters after birth
- B. 20 milliliters
- C. 25 milliliters
- D. 15 milliliters after birth

18. The temperature of a normal newborn infant is about: -

- A. 36.2° C at birth.
- B. 38.2° C at birth.
- C. 37.2° C at birth.
- D. 37.8° C at birth.

19. Inactivated polio vaccinations are administered at: -

- A. Birth, 6, 10, and 14 weeks of childbirth
- B. Birth, 6 and 10 weeks of childbirth
- C. Birth, 10 and 14 weeks of childbirth
- D. 14 weeks of childbirth

20. Yellow fever vaccinations are administered at: -

- A. 9 months of childbirth
- B. 9 and 18 months of childbirth
- C. 10 and 14 weeks of childbirth

D. 6 and 14 weeks of childbirth

**SECTION II: SHORT ANSWER QUESTIONS (30 MARKS)-ATTEMPT ALL QUESTION**

1. Describe any three (3) reflexes observed in a normal newborn infant (6 marks)
2. State any five (5) senses observed in a normal newborn infant (5 marks)
3. Describe three modifications in fetal vascularity to facilitate oxygenated blood from the placenta is delivered to the fetal brain from the placenta (6 marks)
4. Describe the changes that occur in the cardiovascular system of a normal newborn infant to facilitate effective cardiopulmonary performance (8 marks)
5. Apart from the reflexes, state any neuromuscular responses detected from a normal newborn infant (5 marks)

**SECTION III: LONG ANSWER QUESTIONS (20 MARKS)-ATTEMPT ALL QUESTIONS**

1. Mrs. MBG aged 30 years who is multiparous with a history of 39 weeks gestational age, abdominal pains, and fetal movements is admitted to the labor ward with a cervical dilatation of 3 centimeters where you are on the clinical attachment under the guidance of Nurse Joy. Mrs. MBG went through normal labor and gave birth to a female infant weighing 3.8 kilograms with an APGAR score of 8 out of 10 scores.
  - a. Using the parameters for APGAR scoring a newborn infant ranging from 0-10 points, describe the points estimation of baby Mapeza (10 marks)
  - b. Describe the standard procedures in essential newborn care of baby Mapeza (10 marks)