

**UNIVERSITY OF SWAZILAND**  
**FACULTY OF HEALTH SCIENCES**  
**MAIN EXAMINATION PAPER, MAY2017**

**TITLE OF PAPER** : **NEONATE WITH COMPLICATIONS**  
**COURSE CODE** : **MID 408**  
**DURATION** : **TWO (2) HOURS**  
**TOTAL MARKS** : **75**

**INSTRUCTIONS:**

- 1. ANSWER ALL QUESTIONS**
- 2. FIGURES IN BRACKETS INDICATE MARKS ALLOCATED TO EACH OR PART OF A QUESTION**
- 3. ANSWER EACH QUESTION ON A NEW PAGE**

**THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR**

## QUESTION 1

### Instructions:

- (1) All the responses should be written on the examination answer booklet**
- (2) Select the MOST appropriate response from the list provided (eg 1.3 C)**
- (3) Write a rationale for the response provided**

1.1 (i) Identify one of the following statements that defines the scarf sign (1 mark)

- (a) The elbow may be outwardly rotated
- (b) The elbow may be brought to the midline of the chest
- (c) The knee may be flexed with no resistance
- (d) The knee may rotate inwardly with minimal resistance

1.1 (ii) Write a rationale for the response provided in 1.1 (i) (2marks)

1.2 (i) Which one of the following neonates is likely to have instability of the sleep-wake pattern (1 mark)

- (a) Postmature neonate
- (b) Stillbirth
- (c) Small for dates
- (d) Premature neonates

1.2 (ii) Provide a rationale for the response selected in 1.2 (i) (2marks)

1.3 (i) Which one among the listed conditions may result to poor neonatal outcome? (1 mark)

- (a) Sleeping for 20 hours per day
- (b) Breastfeeding every 4 hours
- (c) Bowel movements every 2<sup>nd</sup> day for an exclusively breastfed neonate
- (d) Jaundice

1.3 (ii) Provide a rationale for the response given in 1.3 (i) (2 marks)

1.4 (i) As a result of climate change we experience extreme temperatures, identify the relevant advice that midwives should give to mothers in order to maintain neonatal body temperature: (1 mark)

- (a) Offer boiled cool water between feeds
- (b) Use air conditioner or fan to cool the neonate
- (c) Bath neonate in cold water
- (d) Dress the neonate lightly and breastfeed more often

- 1.4 (ii) State the reason for the response selected in 1.4 (i) (2 marks)
- 1.5 (i) From the list provided, identify the interior structure of the foetal skull that will be affected when the right side of the skull has sustained an injury during birth: (1 mark)
- (a) Falx cerebri
  - (b) Confluence of sinuses
  - (c) Tentorium cerebelli
  - (d) Great cerebral vein of Galen
- 1.5 (ii) State the reason for selecting the response in question 1.5 (i) (2 marks)
- 1.6 (i) Which one of the following conditions may occur to a neonate whose mother ingested alcohol during pregnancy? (1 mark)
- (a) Intra uterine malnutrition
  - (b) Respiratory distress syndrome
  - (c) Alcoholism
  - (d) Abnormal behaviour
- 1.6 (ii) State the rationale for your response provided in 1.6 (i) (2 marks)
- 1.7 (i) Identify one of the listed conditions that should be considered before a midwife stops resuscitating a neonate (1 mark)
- (a) Grunting respirations
  - (b) Breathing below 30 cycles per minute
  - (c) Breathing at 49 cycles per minute with sternal retraction
  - (d) Breathing at 60 cycles per minute with no chest in-drawing
- 1.7 (ii) Indicate why the response selected in 1.7 (i) is a correct answer (2 marks)
- 1.8 (i) From the list provided, identify one sign that can be demonstrated by a neonate who has sustained cerebral injury
- (a) Feeble cry
  - (b) Convulsions
  - (c) Bleeding
  - (d) Thriving
- 1.8 (ii) What is the rationale for the response selected in 1.8 (i) (2 marks)

1.9 What is the rate of neonatal mortality in Swaziland as reported by the Ministry of Health (2015)? (1 mark)

**TOTAL MARKS: 25**

**QUESTION 2**

- (a) Define the term: asphyxia neonatorum (3 marks)
- (b) A midwife should anticipate asphyxia neonatorum at every birth. Discuss how a midwife prepares to manage asphyxia neonatorum in the labour ward (8 marks)
- (c) Describe how a midwife will resuscitate an asphyxiated neonate before the arrival of a neonatologist (14 marks)

**TOTAL MARKS 25**

**QUESTION 3**

Baby Sibho was delivered at mid-day, upon physical examination the midwife concludes that she is a post-mature neonate.

- (a) State which neonates are at risk of developing meconium aspiration syndrome (MAS). Support your arguments with an appropriate rationale. (15 marks)
- (b) Describe physical characteristics of a post-date neonate (10 marks)

**TOTAL MARKS: 25**