



**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**FOURTH YEAR FIRST TRIMESTER EXAMINATION**

**FOR THE DEGREE  
OF  
BACHELOR OF SCIENCE IN CLINICAL MEDICINE**

**COURSE CODE: HCM 465.**

**COURSE TITLE: REPRODUCTIVE HEALTH IV**

**DATE: FRIDAY 14<sup>TH</sup> APRIL 2023**

**TIME: 2:00-4:00 PM**

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**INSTRUCTIONS TO CANDIDATES**

1. READ THE INSTRUCTIONS AT THE BEGIN OF EACH SECTION
2. THIS PAPER CONSIST OF:  
Section A: Multiple Choice Questions (MCQ) 20 Marks.  
Section B: Short Answer Questions (SAQ) 40 Marks.  
Section C: Long Answer Question (LAQ) 40 Marks
3. NO MOBILE PHONE IS ALLOWED IN THE EXAMINATION ROOM

**DURATION: 2 Hours**

**MMUST observes ZERO tolerance to examination cheating**

**This Paper Consists of FIVE Printed Pages. Please Turn Over.**

## MCQS (20 MARKS)

1. The levator ani muscle comprises of the following except?
  - a. Pubococcygeus muscle
  - b. Iliococcygeus muscle
  - c. Coccygeus muscle
  - d. Puborectalis muscles
  
2. Petra and Wendy are married to one man. They are both pregnant. They had a misunderstanding and Wendy took poison and died after 2 days. About the scenario;
  - a. Carry out verbal autopsy
  - b. Maternal mortality notification should be within 72 hours
  - c. Maternal mortality audit should be done within 7 days
  - d. It is not a maternal mortality
  
3. Which one of the following drugs is not contraindicated in the first trimester of pregnancy?
  - a. Ibuprofen
  - b. Methotrexate
  - c. Metformin
  - d. Vinblastine
  
4. The second leading cause of maternal mortality is?
  - a. Hemorrhage
  - b. Complications of unsafe abortion
  - c. Sepsis
  - d. Hypertensive diseases in pregnancy
  
5. A 55 year old woman complains of feeling of fullness per vagina while walking worse on defecation. On speculum examination, a mass is seen protruding anteriorly. This is likely to be;
  - a. Cystocele
  - b. Rectocele
  - c. Uterine prolapse
  - d. Enterocele
  
6. Regarding cancer of the uterus. The following statement is FALSE.
  - a. The endometrium is the usual site of origin
  - b. The peak age at presentation is 60 years
  - c. Abnormal uterine bleeding is the commonest symptom
  - d. Post coital bleeding is common
  
7. In mother to child transmission of HIV; the following statement is true.
  - a. Routine episiotomies are encouraged to prevent prolonged labour.

- b. Antiretroviral therapy is contraindicated in pregnancy.
- c. Transplacental infections account for 40% of transmissions.
- d. Rupture of membranes is contraindicated for patients in latent phase of labour.

8. Uterine fibroids

- a. Red degeneration is uncommon in pregnancy
- b. Inability to conceive maybe the presenting complaint of subserosal fibroids
- c. Myomectomy should be done to menopausal women
- d. Sarcomatous change occurs in less than 0.1% of patients.

9. In management of cancer of the cervix, the following statement is false

- a. Chemotherapy is used for tumor debulking.
- b. Wertheims hysterectomy is indicated for stage 1 and 2a
- c. Radiotherapy is the best mode of treatment for stage 3A.
- d. The five year survival rate for stage 3a is 80%

10. In classification of ovarian tumours,

- a. Krunkenberg tumours originate from other GIT organs
- b. Germ cell tumours are common in adults
- c. Epithelial tumours are common in children
- d. Majority of the tumours are germ cell in origin.

11. The following hormones are secreted from the anterior pituitary glands except;

- a. Vasopressin
- b. Melanocyte stimulating hormone
- c. ACTH
- d. Thyroid stimulating hormone

12. The following statement is false

- a. Orthello syndrome is a somatic type of delusional disorder.
- b. La belle indifference is the paradoxical absence of psychological distress despite serious medical illness
- c. Pseudocyesis occurs where psychologically a woman has pregnancy symptoms but she is nongravid
- d. Couvade syndrome is also called 'sympathetic pregnancy'.

13. False statement about ABO hemolytic disease

- a. Blood group A is the commonest blood group worldwide.
- b. Mothers are usually blood group O while babies with blood group A are most affected.
- c. Onset of jaundice in the baby is within 24 hours
- d. Indirect bilirubin levels in the baby tend to be negative

14. In UTI in pregnancy, the following statement is true

- a. About 60% of all acute pyelonephritis occur on the right kidney.

- b. Colonization of the urinary tract by more than 10000 bacteria
- c. Early morning midstream urine is the best sample to be collected.
- d. Commonest bacteria causing UTI are E.coli, Proteus and Haemophylus.

15. The following drugs have tocolytic effects except;

- a. Dobutamine
- b. Nifedipine
- c. Terbutaline.
- d. phenobarbitone

16. Forms of gender based violence include the following except.

- a. Female genital mutilation
- b. Sexual coercion
- c. Bestiality
- d. Honour killings

17. In uterine prolapse, the following statement is TRUE;

- a. History of prior pelvic surgeries is a risk factor.
- b. Stage 2 occurs where the cervix prolapses into the lower part of the vagina.
- c. Stage 3 occurs where the cervix protrudes from the vagina.
- d. Stage 1 is also called procidentia

18. Which of the following is not a characteristic of a pelvis favorable for SVD?

- a. Sacral promontory cannot be felt
- b. When the diagonal conjugate is 13cm
- c. A curved and room ischial spine
- d. When the obstetric conjugate is less than 10cm

19. The following statement is TRUE about cervical dysplasia

- a. Atypical Squamous cell dysplasia of undetermined significance (ASCUS) corresponds to CIN 1 on Bethesda's classification
- b. Long term use of hormonal contraceptives is a risk factor
- c. Severe cervical dysplasia involves the whole length of the epithelium but does not cross the basement membrane (CIN3)
- d. Carcinoma in situ occurs when the dysplastic cells cross the basement membrane of the epithelial layer.

20. The following bones form the innominate pelvis except;

- a) Pubis
- b) Coccyx
- c) Ilium
- d) Ischium

### **SHORT ANSWER QUESTIONS (40 MARKS)**

1. A 16 year old form one student is brought to your facility with a history of having been abducted by a boda boda rider known to her for one week. She acknowledges that they had sexual intercourse several times.

- a. What is the diagnosis? (2 marks)
- b. Briefly manage the patient (8 marks)

2. Briefly describe at least five obstetric factors that increases vertical transmission of HIV/AIDS.

3. Write short notes on;

- a. Cystocele (2 marks)
- b. Urethrocele (2 marks)
- c. Rectocele (2 marks)
- d. Enterocele (2 marks)
- e. Urge incontinence in women (2 marks)

4. Regarding cancer of the cervix

- a. List the type of HPV that predisposes a woman to cervical carcinoma (2 marks)
- b. Briefly state the risk factors for cancer of the cervix (2mks)
- c. Briefly discuss the clinical presentations of cancer of the cervix (2mks)
- d. Management of cancer of the cervix (4mks)

### **LONG ANSWER QUESTIONS (40 MARKS)**

1. In pre malignant lesions of the cervix;

- a. Describe at least four screening methods. (8 marks)
- b. State at least 4 indications of a PAP smear (4 marks)
- c. Briefly describe at least 4 modalities in management of a patient with Cervical intraepithelial Neoplasia 2 (CIN 2) (8 marks)

2. A 45 year old para 1+0, last delivery 20 years ago presents to you complaining of abdominal swelling and prolonged periods for the last 6 months. O/E fundal height is 24 weeks, the uterus feels firm with irregular masses.

- a) What is the most likely diagnosis (2 marks)
- b) State at least 4 differential diagnosis (4 marks)
- c) Briefly describe at least 6 degenerative changes of fibroids (6 marks)
- d) What is the most likely complication in pregnancy (2 marks)
- e) Briefly describe three modes of management in this patient. (6 marks)