



Cert Maternal & Fetal Medicine(SA)

## THE COLLEGES OF MEDICINE OF SOUTH AFRICA

Incorporated Association not for gain  
Reg No 1955/000003/08

Examination for the Subspecialty in Maternal & Fetal Medicine of the  
College of Obstetricians & Gynaecologists of South Africa

1 March 2018



Paper 1

Maternal Medicine

(3 hours)

*All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the one answer)*

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- 1) a) A patient with a prosthetic mechanical mitral valve requires anticoagulation in pregnancy.
  - i) What options are available for managing this patient? Briefly outline the benefits and risks of each option. (50)
  - ii) Indicate in detail how you would set about choosing one particular therapy. (25)
- b) A paper published in 2004 by Papageorghiou et al showed that the use of second trimester uterine artery Doppler screening had a pooled positive Likelihood Ratio of 5.9 (95% confidence limits 5.3 to 6.52) and a negative Likelihood Ratio of 0.55 (95% confidence limits of 0.5 – 0.6) for the diagnosis or pre-eclampsia
  - i) What does this mean? (15)
  - ii) How would this influence your clinical management? (10)[100]
  
- 2) a) Write notes on medical disorders which predispose to obstetric haemorrhage. (50)
- b) List and describe the clinical disorders pertinent to the differential diagnosis of HELLP syndrome. (50)
  
[100]  
- 3) a) Tabulate the key echocardiographic differences when comparing heart failure in peripartum cardiomyopathy to heart failure in pre-eclampsia. (20)
- b) Discuss the rationale for and possible role for the use of angiogenic biomarkers in the management of woman with pre-eclampsia. (40)
- c) Write note on listeriosis in pregnancy. (40)
  
[100]



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2 March 2018



Paper 2

Fetal Medicine

(3 hours)

*All questions are to be answered. Each question to be answered in a separate book (or books if more than one is required for the one answer)*

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- 1
  - a) Discuss discordant fetal size in a monochorionic twin pregnancy. (40)
  - b) Discuss the adverse effect on fetal development of 3 drugs that are commonly used to treat maternal diseases (choose any three). (30)
  - c) Discuss the clinical applications and utility of assessment of flow patterns in the ductus venosus. (30)[100]
  
- 2
  - a) List the cardiovascular anomalies that can be associated with abnormal features in the three-vessel-trachea view. For each of these, discuss the features in this particular view and describe how you would confirm the diagnosis. (40)
  - b) Discuss your approach when counseling a couple with an NIPT report showing a positive result for trisomy 13. (30)
  - c) Discuss your approach when detecting a facial cleft at the detail scan. (30)[100]
  
- 3
  - a) Write notes on the embryological development of the spinal cord. (40)
  - b) A pregnant woman presents at 10-weeks gestation with the diagnosis of sickle cell disease. How would you counsel her about the risk of transmitting the disease to the fetus and discuss your approach to the prenatal diagnosis thereof. (30)
  - c) Discuss fetal programming associated with gestational diabetes. (30)[100]