



PROGRAM : NATIONAL DIPLOMA

SOMATOLOGY

SUBJECT : APPLIED BIOLOGICAL SCIENCE

CODE : ABS 301

DATE : NOVEMBER EXAM

NOVEMBER 2016

DURATION : SESSION 1

09:00 – 12:00

WEIGHT : 50/50

TOTAL MARKS : 120

EXAMINER : MS. KHUMALO

MODERATOR : MS. DENATH

NUMBER OF PAGES : 3

INSTRUCTIONS:

- Answer ALL questions.
 - Read all the questions carefully.
 - Good luck!
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QUESTION 1

1.1 Elaborate on Tolerance, Dependence and Withdrawal concerning the administration of drugs. (8)

[8]

QUESTION 2:

2.1 Define the following terms:

2.1.1 Disorder (3)

2.1.2 Syndrome (2)

2.1.3 Etiology (4)

2.2 Explain prognosis (6)

2.3 Name the three different ways genetic disorders are passed on to the offspring (3)

[18]

QUESTION 3:

3.1) Name the different types of shock (3)

3.2) shortly discuss the difference between: **asthma, influenza, emphysema, acute bronchitis, atelectasis and pneumonia** (6)

3.3) Discuss primary TB (15)

3.4) Name six **(6)** upper respiratory system disorders (6)

[30]

QUESTION 4

4.1 Describe the five stages of the Lytic cycle of viruses. (10)

[10]

QUESTION 5

5.1 Discuss the 3 different stages in the development of cancer. Indicate what causes one stage to develop into the next, and give examples where possible. (10)

5.2 Name the classes of carcinogens and give an example of each (14)

5.3 Name and explain shortly the methods of cancer treatment (10)

[34]

QUESTION 6

6.1 Give *two* examples of each of the following types of skin diseases. (4)

6.1.1 VIRAL

6.1.2 FUNGAL

[4]

QUESTION 7

7.1 A prokaryotic cell is a primitive cell that is made up of only basic components. Describe the structure of this cell. (12)

[12]

QUESTION 8

8.1 In nature we find many Plasma membrane proteins that are all important for the correct functioning of cells. Name any four of the most important ones. (4)

[4]

TOTAL: [120]