

- 16) Study the table below which shows the changes in uptake or output of sugar by the liver (Normal blood sugar level is in the range of 80 mg/100 ml - 100 mg/100 cm³). Use the data given to answer the questions that follow:

Time (Min)	Glucose concentration	
	Hepatic portal vein	Hepatic vein
0	102	100
15	110	102
30	125	97
45	107	94
60	94	80
75	75	80
90	80	80

- a) Why is the glucose level in the hepatic portal vein:
 i) increasing in the first 30 minutes? (1 mark)
 ii) decreasing after the 30th minute? (1 mark)
- b) Why is the glucose level in the blood leaving the liver lower than that in the blood entering it? (2 marks)
- 7) Mutation always causes a mutant phenotype. Do you agree? (2 marks)

Section B: Attempt any three questions (30 marks)

- 8) Insects are both useful and harmful. Justify. (10 marks)
- 9) a) What term is used to describe organisms that cause diseases? (1 mark)
 b) The general defense system tries to prevent disease-causing organisms from entering the body. List two parts of the general defense system in the body. (2 marks)
 c) Distinguish between active immunity and passive immunity by defining each. (2 marks)
 d) Which of the two produces the longest-lasting immunity? (1 mark)
 e) Viruses cause diseases in plants, humans, and other animals. Name any two diseases which are caused by viruses. (2 marks)
- f) Some people receive vaccinations to protect them from disease. What is meant by term vaccination? (2 marks)

Make a table to distinguish between mitosis and meiosis. (10 marks)

What do you do daily in order to maintain the health of your digestive system? (10 marks)

Red green colour blindness is a sex-linked trait. A colour-blind woman marries a man who has normal colour vision. If they have eight children; six boys and two girls, how many are normal, how many are colourblind? (Use appropriate symbols to show your working). (10 marks)

03

Grade Examination Past Papers 22

Ensheng Dong



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