Answer 10 questions on a separate piece of paper. Typed is nice!

1) In general, how are the endocrine and nervous systems alike? How are they different?

2) What is a hormone and could you identify one on the street? e.g. what are they made of?

3) How do hormones "communicate" their message to a cell?

4) What controls the release of hormones and how are they released?

5) The pituitary gland is probably our most diverse endocrine gland. In detail, what does it do?

6) How on earth can a single tissue produce more than one hormone?

7) Do you know the pathway to the release of thyroid hormone? (this is not a yes/no question)

8) No iodine in your diet leads to a goiter...why?

9) Can you balance the homeostatic balance beam with PTH and calcitonin by drawing it?

10) You're in the desert. Do you have elevated renin levels? Why? what about angiotensinogen levels?

11) How do the endocrine cells of the pancreas behave before and after a meal?

12) Anatomically, describe how blood flows through the heart

13) What are the cells found in the blood and what are their functions?

14) What are the functions of blood?

15) What do hemocytoblasts ultimately give rise to?

16) Describe the three phases of hemostasis
17) What defines our major blood groups and how do we determine our blood types?

18) What are the similarities and differences between skeletal and cardiac muscle contraction?

19) What makes the heart beat?

20) What occurs during ventricular systole and diastole?

21) What is stroke volume and what factors improve or diminish it?

22) You accidently sever your femoral artery. Physiologically, how does your body respond?

23) What happens at capillary beds?

24) What is blood pressure and what influences it?

25) Kean University has a zero tolerance policy on alcohol…so hypothetically you’ve been pounding vodka tonics all day and night and the next day you have a massive hangover. Physiologically, what is a hangover?

26) Along with your hypothetical boozing, you have eaten a high fat / salt diet for years. What effect will this have on your blood pressure and why?