**Question 1**

Regarding alteplase (t-PA):

Select one:

a. Preferentially activates plasminogen that is bound to fibrin

b. The incidence of haemorrhagic strokes is 5 times that of streptokinase

c. It is harvested from pig skin

d. It requires a loading does of 300 000 units given over 10 minutes

Answer A. Katzung 11th Edition pg 598 “60mg over the first hour” re loading dose

**Question 2**

Which drug works by increasing the titres of endogenous clotting factors?

Select one:

a. Antihaemophiliac factor

b. Factor IX complex

c. Desmopressin

d. Oxidised cellulose

Answer D. Katzung 11th Edition pg 601 “desmopressin increases the factor VIII activity”

**Question 3**

Warfarin:

Select one:

a. Causes increased prothrombin time

b. Has an anticoagulant action which is immediate

c. Does not cross the placenta or the blood brain barrier

d. Is an orally administered anticoagulant with low bioavailability

Answer A. Katzung 11th Edition pg 595 “PT should be increased…”

**Question 4**

Heparin:

Select one:

a. Acts by decreasing activity of blood coagulant factor VII

b. Is associated with osteomalacia

c. Increases the reaction rate of an antithrombin III on clotting factors

d. Consists of a heterogenous group of glycoproteins

Answer C. Katzung 11th Edition pg 591 “functions as a cofactor for the antithrombin-protease reaction”

**Question 5**

The drug of choice for prevention pf DVT following hip replacement surgery is:

Select one:

a. Enoxaparin

b. Aspirin

c. Alteplase

d. Streptokinase

Answer A. Katzung 11th Edition pg 593 “prophylactic enoxaparin”

**Question 6**

Warfarin:

Select one:

a. May cause skin necrosis by inducing protein C deficiency

b. Requires activation in the liver (ie is a pro drug)

c. Has a large volume of distribution

d. Prevents activation of coagulation factors III, V, VII and IX

Answer A. Katzung 11th Edition pg 595 “small volume of distribution”

**Question 7**

Streptokinase:

Select one:

a. Binds to the proactivator plasminogen

b. Activates plasminogen that is bound to fibrin

c. Is synthesised by the human kidney

d. Is a complex lipopolysaccharide

Answer A. Katzung 11th Edition pg 597 “combines with plasminogen”

**Question 8**

Heparin is characterised by all the following statements EXCEPT:

Select one:

a. Dosing is adjusted by monitoring the partial thromboplastin time

b. It is known to cause alopecia

c. It is inhibited by protamine sulphate

d. It crosses the placental barrier

Answer D. Katzung 11th Edition pg 592 “apparent lack of placental transfer”

**Question 9**

Which is true?

Select one:

a. Vitamin K is administered to newborns to prevent haemophilia

b. Ticlopidine reduces platelet aggregation by affecting prostaglandin metabolism

c. Each unit per kilogram of factor VIII raises its activity in plasma by 12 %

d. Aspirin inhibits the synthesis of thromboxane A2

Answer D. Katzung 11th Edition pg 598 “inhibits the synthesis of thromboxane A2” Ticlopidine is a platelet aggregation inhibitor used in aspirin intolerant patients at high risk of thromboembolic stroke.

**Question 10**

All are known to potentiate oral anticoagulants EXCEPT:

Select one:

a. Ceftriaxone

b. Metronidazole

c. Rifampicin

d. Cimetidine

Answer C. Katzung 11th Edition pg 596 table 34-2