Male patient 55 yrs. old. 70 kg admitted to CCU diagnosed of Myocardial

Infarction. Hemodynamic data: BP 100/40, Pulse 125 b/m, CVP 12 mmHg,

Respiration 18/m, Temp. 36.5 C, CO 2/L, O2 SAT 88%, Cardiac Enzymes elevated,

ECG shows ST elevation in lead 2, lead 3 and AVF, Dr requested to start

streptokinase 1.5 million I.U over 1 hr., start Nitroglycerin infusion 50 mcg/min

using a Nitroglycerin Admixture of 50 mg in D5W 250 ml, Heparin infusion and

give Aspirin 300 mg P.O, Lasix 40 mg I.V STAT and applied nasal cannula 2/L,

Chest x-ray shows LV congestion.

1-Calculate the MAP? Interpretation?

MAP = 2D+S \ 3 = 2\*40 +100\3 = 60

2- Pulse Pressure? Interpretation?

S – D = 100 – 40 = 60

3- SVR? Interpretation ?

(MAP – CVP \ CO ) \*80 = (60 – 12 \ 2) \* 80 = 1920

4- What you expect the reading for PAP and PAWP and why ?

5-What is your interpretation of high reading CVP?

6-What type of shock you suspect the patient may have follow MI?

7-What is the classification and action of streptokinase, Aspirin, Heparin and

Nitroglycerin drugs?

8-Calculate the IV infusion rate in millimeters per hour for nitroglycerin?

9-Echo cardiograph done for patient and show 35 % Ejection fraction, what is

E.F mean and what is its normal range?

10-Patient next day start Dopamine infusion, 5 mic / kg / m, what are the indication, classification, for dopamine infusion and the effect of dopamine ?