Name: UCO:

- 1. Determine the future course of CZK/USD in one year using the PPP concept. You know following: the current course is 19,38 CZK/USD, the expected inflation rate in the Czech Republic is 2.8 % and the expected inflation in the USA is 1.4 %. Further you know that a bread in the Czech Republic is CZK 26.00.
- 2. For the following project find the NPV, PB, IRR and the MIRR. Initial costs are \$ 225.00. The project generates this cash flow in consecutive years \$80.00, \$85.00, \$95.00 and \$100.00. The first positive cash flow occurs one year after the beginning of the project. You also know that the cost of foreign capital is 9% and shareholders require at least 12%. The capital structure of the debt corresponds to 75%. The income tax rate is 15%.
- 3. Specify three important factors that influence the development of oil prices:
- 4. Calculate the price of following bond. The face value of the bond is 1,000,000.00, the maturity of the bond is in four years, yeald to maturity was set at 12 % and the bond coupon rate is 8 %. Use the duration for calculating the change in its price if the interest rate rises and falls by one percent. Then calculate the price change using the concept of convexity.
- 5. How could be described the forecast of exploration and production of oil and gas in Ghana?
- 6. How much money you must save at the beginning of each month if you like to create in five years a budget of \$ 36,138.03? Further you know that the annually interest rate is 7.2 % p. a. and the bank calculate the interest three times a year.
- 7. How would you define a corporation?
- 8. How much money you need to save at the end of each quarter for the next six years, if you like to receive a regular five days income in the amount of \$100.00 (at the end of the payment period) for the next three years. The interest rate is 2 % p. a. during the whole period (9 years) and the bank calculates interest at a monthly basis.
- 9. Describe the potential of shale gas.
- 10. What is the main function of International Monetary System?
- 11. A client has to repay a mortgage of \$ 100,000.00 in monthly payments during the next 15 years. Annuities are equal; interest rate is 15 % per annum with the interests calculated every month. Define the amount of monthly payment and create a repayment plan for the first three payments. How much of the total debt will be amortized during one year?
- 12. How was the development of oil and gas industry in Russia during the last financial crisis?