國立成功大學 學年度為村州公子考試(孙李2程

1. Explain the following terminology For exploration (1) secondary enrichment (3%) (2) contact metamorphism (3%) (3) anticinal theory for petroleum exploration (4%) For mining engineering (4)permitted explosives (3%) (5)hydraulicking (3%) (6)roof control (4%) For petroleum engineering (7)directional drilling(3%) (8) multiple zone completion (3%)
(9) artificial gas lift (4%)
For mineral dressing
(10) contact angle for flotation (3%)
(11) angle of nip for roll crusher (3%)

(12) autogenous grinding (4%)
2. Describe the purpose of ventilation and explain the condition of

creating a natural ventilation situation in an underground mine. (10%)
3. Explain the relationship between subsidence and underground coal mining, also describe the methods which can be used to reduce the amount of subsidence. (10%)

4. Describe the various types of energy drives which are used to move

petroleum out of the reservoirs without artificial forces. (10%)
5. Describe the various well testing methods which can be used to

determine the production rates for oil and gas.(10%)

6.List the major minerals in heavy sands and plot a flowsheet to show the process of separating these minerals.(10%)

7.Describe the principles of electrostatic separation and high tension separation.(10%)