

# QUESTION BANK OF UNDERGROUND COAL MINING

Write advantages (any two) of hydraulic stowing.
What is local fall?
Define "heading" & "face" of any working face.
Define "gallary" & "level".
State the factors of subsidence.
Define contigeous seam.
Write any two disadvantages of bord & pillar method.
What are the problems of thick seam mining?
Write different types of roof supports used in mines.
Define prop free face.
Write classification of underground coal mining.
Define "level gallary".
State various machineries used in working face of Bord & Pillar method.
What is longwall retreating?
What is longwall advancing?
What is descending slicing?
State (any two) advantages of horizon mining.
What is hydraulic stowing?
State various types of roof supports used in mines.
Define angle of draw.
What can be the different shapes of a shaft?
Define "Local fall".
State the methods of depillaring.
Write (any two) disadvantages of single unit face.
State (any two) problems of thick seam mining.
Define "goaf line".
Define slice mining.
What is ascending & descending slicing?
What is hydraulic stowing?
Write different types of roof supports used in mines.
Define prop free face.
What do you mean by subsidence?
Define "Panel".
What is depillaring?
State incubation period & spontaneous heating.
Define air-blast.
What is line of extraction?

**5 MARKS- QUESTIONS**

Differentiate between

- (i) Dip gallery & level gallery.
- (ii) Face & heading.

What are the precautions against water during depillaring?

State various precautions against fire and water during & after depillaring.

Factors affecting selection of underground coal mining method.

Describe the purposes of various machineries used in working face?

Explain the methods of extraction of stooks.

Explain working of contiguous seam.

What are the applicability conditions for stowing?

State applicability conditions for longwall method. Describe longwall advancing method.

Explain incline slicing with caving.

State conditions, advantages, disadvantages & limitations of Horizon Mining.

Write a short note on "Pneumatic Stowing".

Write a short note on timber prop.

State applicability conditions for longwall method. Describe longwall advancing method.

State the applicability conditions for adoption of stowing.

State conditions, advantages, disadvantages & limitations of stowing.

Describe testing of roof.

State the precautions against water during depillaring.

Enumerate different measures against damage due to subsidence.

With advantages & disadvantages, describe Bord & Pillar method of extraction.

Differentiate between

- 1 Face & heading.
- 2 Local fall & main fall.
- 3 inclined shaft & vertical shaft

What are the applicability conditions for longwall mining?

Explain the methods of incline slicing with caving.

Write a short note on "Timber prop".

Describe the layout of Horizon Mining.

Describe various layouts of B & P method.

Explain freezing method of shaft sinking.

**10 MARKS- QUESTIONS**

Classify underground coal mining methods. Describe the provisions for mine development of Bord & pillar method.

Define pressure-arch theory. Describe testing of roof.

Describe the factors affecting subsidence.

With sequence of pillar extraction, explain the method of depillaring by caving.

Write notes on-

- (i) Extraction of stooks
- (ii) Roof bolting
- (iii) Roof stitching

Define Goaf line. Explain different types of goaf line.

What is depillaring? Explain the preparatory arrangements for depillaring.

Describe the provisions for mine development of Bord & pillar method.

Describe the General arrangements made for sand stowing.

Explain roof bolting & roof stitching.

Explain the procedure of depillaring with stowing & caving.

Write a notes on -

- (i) Hydraulic stowing.
- (ii) Cyclic longwall layout.
- (iii) Testing of roof.

Describe the factors affecting subsidence.

Describe location of shaft. State shaft blumbing.

Define Goaf line. Explain different types of goaf line.