

# KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION

## COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT SERVICES (BPS-17)

2013

### GEOLOGY, PAPER-II

TIME ALLOWED: 03 HOURS

MAX:MARKS: 100

Note:- Attempt any Five questions. All questions carry equal marks.

- Q.1- Explain early magmatic process of mineral formation. Cite examples?
- Q.2- Describe geology of Makarwal Coal field and its suitability for power generation?
- Q.3- Evaluate those geological conditions which are necessary for stability of concrete dam?
- Q.4- Classify different types of aquifers and elaborate the mechanism for the movement of groundwater?
- Q.5- Explain, how the study of remote sensing facilitates to explore mineral deposits?
- Q.6- Discuss hydrocarbon potential of Kohat-Bannu sub-basin areas?
- Q.7- Name important geotechnical properties of aggregate and discuss their mechanical properties in detail?
- Q.8- Give significance of trace element dispersion during geochemical survey?