



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions: (6x5=30)

1. What do you know about **Zoophilous** Plants? Why Zoophilous plants produce small number of pollen? Discuss with examples.
2. Discuss the role of **Palynology** in **Medicine** and **Criminology**.
3. What are **Palynomorphs**? Discuss various categories of **palynomorphs** with neat and labeled diagrammes.
4. What is the chemical nature of **sporopollenin**? Discuss its significance in preservation of palynomorphs in sedimentary rocks.
5. **Coalification** of **dispersed organic matter** in sediments follows the same route as associated coal beds. Discuss various stages of coalification of organic matter in sediment.
6. **Coarse sand stone** is not excellent medium for preservation of most **palynomorphs**. Give reasons.

Q.2. Answer the following questions. (3x10=30)

1. What do you know about **Exine Ultra Structure**? Discuss in detail various systems used for classification of exine stratification.
2. Discuss **depositional mechanism** of palynomorphs in sediments. Explain Post Depositional Hazards in detail.
3. Discuss the role of **Palynomorphs** in **exploration of Oil and Gas**.