



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

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

1. What are **Anemophilous Plants** and why do they produce large quantities of Pollen? Discuss rates of production of pollen with suitable examples.
2. Describe **Pollen Wall Stratification** with the help of neat and labeled diagrammes.
3. What is the difference between **Exine Structure** and **Sculpture**? Differentiate clearly between **Granulate** and **Punctate Exine** with the help of neat and labeled diagramms.
4. Define **Palaeoclimatology**. Discuss the role of Palynology in reconstruction of Paleoclimate.
5. Discuss the chemical nature of **Sporopollenin**. In which plant part does it occur?
6. How **Organic Thermal Maturity** of Rocks is determined by the colour of fossil palynomorphs? Discuss

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

1. What do you know about various types of **Pollen and Spores** produced by different **Groups of Plants**? Describe the **Production and Dispersal** of Spores and Pollen in detail.
2. Write a detailed note on **Palynomorphs as Sedimentary Particles**.
3. Discuss in detail **typological development of exine** in Angiosperms with the help of labeled diagrammes.