

1. Give short answers to the following questions: (20)

- i. What do you understand by the term 'site organisation'?
- ii. Highlight the importance of preparing the site road to make it suitable for the movement of heavy construction equipment.
- iii. List the precautions to be taken for the storage of cement at a construction site.
- iv. What would you do to prevent scaling and rusting of structural and reinforcing steel?
- v. How does exit control help in site protection?

2. Discuss the advantages of providing fences for construction sites. (5)

3. How is the provision of site electricity different from building electricity? (5)

1i. Practical and organized layout of a site with all facilities and equipment clearly stated to ensure highest efficiency in executing the project.

ii. Heavy equipment will damage soft/hard grounds and poses as hazard to workers and public. Appropriate signs/road markings should be clear to ensure safety

iii. To reduce circulation of air within cement and prevent lumping under pressure, bags need to be packed together with width limit of 4 bags and height of 15 bags. waterproof material cover should be used in humid conditions which should not exceed 2 months.

iv. Coat steel with cement wash before stacking to prevent rusting and scaling.

v. It provides security to the site with the ability to control/monitor all movements of workers/ vehicles.

2. fences offer a protection for the site against losses and theft, they can be used for the purpose of providing a physical restriction, stop unwanted access, act as a powerful deterrent and are great way to secure entry.

v. power on construction site is temporary and main source are grid supply form the local authority and portable generators. The site may take the required amount via a high voltage line or a high voltage supplied with a step-down transformer, or tapping electricity with a service line below 250V or from an existing service connection. Site can also take power from portable and fixed generators.

Electricity to the buildings is supplied from power company at very high voltages. The power goes through transformer which is a pad outside the building or utility pole. From there electricity is fed through a meter and into the building.