



BLACK DIAMOND SCHOOL OF ENGINEERING

CIVIL ENGINEERING DEPARTMENT

QUESTION BANK

6TH SEMESTER

SUB:

ADVANCE CONSTRUCTION RECHNIQUES AND EQUIPMENTS

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ADVANCED CONSTRUCTION TECHNIQUES & EQUIPMENTS.

6th Semester, Civil Engg.

[2 x 10]

Q1. Short questions:-

- a) What is fiber?
- b) Explain PVC, RPVC.
- c) Write the properties of artificial timber.
- d) What is adhesion?
- e) What do you mean by acoustic materials?
- f) What is mail cladding?
- g) Define Prefabrication.
- h) What is lateral load?
- i) What are good building characteristics?
- j) What is wiring and fuse?

[5 x 6]

Q2. Answer any six questions:-

- a) Write the methods of ventilation.
- b) Describe the mechanical services Lift and Escalator.
- c) Describe wire-mesh and why it is used.
- d) What is slope stabilization in embankments?
- e) What is soil reinforcing?
- f) What are soil reinforcing techniques?
- g) What is canthing and its uses?
- h) Draw the layout of wiring.

[2 × 10]

Q3. Long questions (Any two)

- a) What are the necessity and scope of prefabrication of building.
- b) Write the classification of prefabrication.
- c) Explain building configuration.
- d) What are the sources of weakness in RC frame building?

1 Short questions :-

[10 x 2]

- a) Define depreciation
- b) Define Investment cost
- c) Define Obsolescence cost
- d) Define down time
- e) Define scrap value
- f) Define replacement cost
- g) Define maintenance charge
- h) what is demolition
- i) what is microplotation
- j) what is cofferdam.

2 . Answer the following :-

[6 x 5]

- a) what is power shovel and its operation
- b) Describe the earth rammer.
- c) Discuss advantages and disadvantages of scrapers.
- d) Write short note on tall structure
- e) List methods of demolish demolition and explain any two
- f) Explain formwork for big arches.

3 Long questions :-

- a) What is a pneumatic caisson? where is it adopted?
How is it constructed?
- b) What is the meaning of the term pile foundation?
Explain uses of pile.
- c) What is cofferdam? what are its uses? Briefly
common types of cofferdams.

1. Short questions :-

- a) State types of plastic.
- b) What is prestressed concrete?
- c) State four types of crane.
- d) What is the working of screed vibrator?
- e) What is slip formwork?
- f) What is power shovel?
- g) What is wall cladding?
- h) What is geosynthetic?
- i) What is prefabrication?
- j) What is scraper?

2. Answer the following :-

- a) What is wall cladding? State the procedure of fixing wall claddings.
- b) Explain the procedure of prestressing with a neat sketch.
- c) State the effect of aspect ratio and percentage of steel fibers on strength of concrete.
- d) How geosynthetics are useful for strengthening of embankments?
- e) What is jointing of slab panels in prefabricated construction?
- f) State the necessity of ready mix concrete. Prepare a layout of ready mix concrete plant.

3 Long questions :-

- a) What is preventive maintenance? State the essential requirements of preventive maintenance.
- b) Suggest a suitable vibrator for concreting of columns. Explain its working with neat sketch.