

SE-385

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Seat No.	
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F.Y. M.Tech. (Civil- Construction & Management) (Part-I)
(Semester - II) (New) Examination, December - 2019
ADVANCED CONSTRUCTION (Elective-II)

Sub. Code : 72726

Day and Date : Tuesday, 03- 12 - 2019

Total Marks : 70

Time : 2.30 p.m to 5.00 p.m.

- Instructions :**
- 1) Attempt any TWO questions from each section.
 - 2) Support your answers with suitable civil engineering works & suitable sketches.
 - 3) Figures to the right indicate full marks.
 - 4) Assume suitable data if necessary and mention it.

SECTION-I

- Q1) a)** Discuss in detail any three special types of special formwork. [9]
b) Describe polymer based composites and their application in construction. [8]
- Q2) a)** Explain in detail drainage system for land reclamation. [9]
b) Draw a layout plan for Atomic power station. Discuss various construction aspect to be considered while planning for atomic power station. [8]
- Q3) a)** Write a detailed note on composite steel and concrete construction. [9]
b) Write short notes on Any Three from the following. [3×3=9]
i) Formwork design.
ii) Fibre reinforced polymer.
iii) Structural improvement in land reclamation.
iv) Power generation structures
v) Wind mills.

P.T.O.

SECTION-II

- Q4) a) Write a detailed note on preservation of bridges with suitable example. [9]
b) Discuss any two concrete pavement techniques in detail. [8]
- Q5) a) What is revibrated concrete? Discuss its suitability with civil engineering example in construction. [9]
b) Explain in detail the dewatering in concrete slab construction. [8]
- Q6) a) Discuss any three methods of bridge strengthening with suitable sketch. [9]
b) Write short notes on Any Three from the following. [3×3=9]
i) Diaphragm walls.
ii) Roller compacted concrete.
iii) Wet mix macadam.
iv) Reinforced earth construction.
v) Foundation strengthening.

