



SURYA POLYTECHNIC COLLEGE

Surya Nagar, Vikiravandi, Villupuram - 605 652

DEPARTMENT OF CIVIL ENGINEERING – III YEAR

CONCRETE TECHNOLOGY - 4010532

MODEL EXAM - 1

Time : 3 Hrs

MAX Mark: 100

PART – A

Note : Answer any 15 Questions – All Questions carry Equal Marks.

(Marks : 10 x 3 = 30)

1. Define Cement ?
2. What is meant fine aggregate and coarse aggregate?.
3. Define Admixtures ?
4. What are the grouping admixtures ?.
5. Define polymer concrete and uses?
6. What are the application of light weight concrete.?
7. What are the post tension concrete ?
8. What are the three process of pre fabrication ?
9. What are the types cracking ?
10. Explain shortly isolation jointing ?

PART- B

NOTE: (i) Answer all questions choosing either division (A) or division (B) of each question

(ii) All divisions carry equal marks.

(Marks : 14 x 5 = 70)

- 11 (A) (i) Explain about the ingredients concrete ?
(ii) Explain briefly about the production of concrete?

[OR]

(B) (i) Explain types of cement and use?

12 (A) (i) What are the classification of admixtures?

[OR]

(B) (i) What are the mix design procedure and IScode method?

13 (A) (i) Explain the 1) Shotcrete or gunite concrete 2) fibre reinforced concrete?

[OR]

(B) (i) What are the characteristics of light weight concrete?

(ii) Precautions to be application of light weight concrete ?

14 (A) (i) Explain the methods of post tension concrete ?

[OR]

(B) (i) Explain the requirements of form work ?

15 (A) (i) Explain the types of cracks?

(ii) Explain the assessment of cracks ?

[OR]

(B) (i) What are the method of repairing work ?