SECTION-C

Note: Attempt all questions. (5x10=50)

Q.3 What do you understand by placement of concrete? Explain various methods in brief.

Q.4 Explain polymer concrete and fibre reinforcement concrete.

Q.5 What is vibrator? How will you select a suitable vibrator for different situations?

Q.6 Explain the different methods of compaction.

Q.7 What is the significance of mix design? Explain various methods for mix design of concrete.

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4th Sem. / Civil Engg.

Subject : Concrete Technology

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 10 parts. (10x2=20)

Q.1 a) Volume batching.

b) Gap grading.

c) Durability.

d) Fine aggregate.

e) Bulk density.

f) Low heat cement.

g) Bleeding.

h) Consistency.

i) Creep.

j) Light weight concrete.

k) Bulking of sand.

l) Slump.

m) Design mix.

n) Grading.

o) Expansion joint.

p) Advantages of concrete.

q) Hydration of cement.

r) Curing.

SECTION-B

Note: Short answer type questions. Attempt any five parts (5x6=30)

Q.2 i) What do you understand by grading of the aggregate?

ii) Give the various types of ingredients in cement and their function.

iii) What is mixing of concrete and explain the method of mixing?

iv) State the disadvantages of concrete.

v) Classify the aggregate according to shape.

vi) List four properties of light weight concrete.

vii) Various methods of storing cement.

viii) Explain fineness modulus.

ix) Give properties of polymer concrete.

x) How mixers are maintained.

xi) Discuss the factor affecting the value of bulk density.

xii) Difference between shrinkage and sreep.

xiii) Explain the advantages of compacting factor test over slump test.

xiv) Explain Vee Bee test.

xv) What is workability of concrete? How will you determine by compaction factor test?