Dr Asok Gupta

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q1. What are the constituents of concrete? State their relative proportions **(7)**

Q2. Discuss with graphs heat of hydration of cement **(7)**

Q3. How PPC is different from OPC. Enumerate its advantages and disadvantages **(7)**

Q4. What do you mean by angularity index? Why angular aggregates are superior to rounded aggregates? **(8)**

Q5. Why AAR is important in context of concrete technology. What are the factors which promote AAR? **(7)**

Q6. What are different types of cements available? Explain each one of them. **(8)**

Q7. Write short notes on **any two** of the following **(6)**

a) Compressive strength of concrete

b) Workability of fresh concrete

c) Durability of concrete