Q.1 Answer the following (Questions for 2 marks)

1) What do you mean by characteristic strength of concrete?
2) State the types of bars used in R.C.C.
3) Define Modulus of elasticity.
4) Define Nominal shear stress.
5) Calculate 6cbc for followings grades of concrete. M15, M20, M25, M30.
6) State the functions of main steel.

Q.2 Answer the following (Questions for 4 marks)

1) State the advantages of R.C.C.
2) Why shear reinforcement is provided?
3) Why effective depth is used for design purpose?

Q.3 Answer the following (Questions for 6 marks)

1) What are the requirements of good concrete?
2) State the assumptions made in case of working stress method.
3) Differentiate between limit state method and working stress method.
4) State the steps in design of shear reinforcement.
5) Write a short note on – working stress method.
6) Write a short note on – Bond.
