

23CE503: STRUCTURAL ENGINEERING – I (RCC)
DESIGN OF SLABS
UNIT III

Part A: Objective Questions (MCQs)

1. One-way slab has:

- A) Two directions bending
- B) One direction bending
- C) No bending
- D) Torsion

Answer: B

2. Two-way slab aspect ratio is:

- A) >2
- B) <2
- C) $=1$
- D) None

Answer: B

3. Deflection limit is span/:

- A) 20
- B) 250
- C) 100
- D) 50

Answer: B

4. Slabs are designed using:

- A) IS coefficients
- B) Charts
- C) FEM
- D) All

Answer: A

5. Effective depth of slab is:

- A) Total depth
- B) d
- C) cover
- D) none

Answer: B

6. Continuous slabs have:

- A) Hinges

- B) Continuity
- C) No support
- D) None

Answer: B

7. Cracking depends on:

- A) Stress
- B) Strain
- C) Load
- D) All

Answer: D

8. Minimum reinforcement prevents:

- A) Collapse
- B) Cracks
- C) Buckling
- D) None

Answer: B

9. Serviceability includes:

- A) Strength
- B) Deflection
- C) Collapse
- D) Yield

Answer: B

10. Slab thickness depends on:

- A) Span
- B) Load
- C) Both
- D) None

Answer: C

Part B: Fill in the Blanks

1. One-way slab bends in _____ direction. Answer: One
2. Two-way slab bends in _____ directions. Answer: Two
3. Deflection limit is span/_____. Answer: 250
4. Minimum reinforcement controls _____. Answer: Cracking
5. Slab design uses _____ coefficients. Answer: IS
6. Effective depth is denoted by _____. Answer: d
7. Continuous slab has _____ supports. Answer: Multiple

8. Cracking is a _____ limit state. Answer: Serviceability

9. Slab carries _____ loads. Answer: Distributed

10. Aspect ratio = _____. Answer: L_y/L_x