

BE Semester- III (Civil Engineering) Question Bank

(Building Construction)

All questions carry equal marks (10 marks)

Q.1	What is subsurface investigation? Explain purpose of site exploration and choice of method of site exploration.
Q.2	Explain seismic refraction method and electrical resistivity method with neat sketch.
Q.3	Explain in detail plate load test with neat sketch for determine the bearing capacity of soil.
Q.4	Explain various methods of improving bearing capacity of soils.
Q.5	Explain in detail grillage foundation with neat sketch.
Q.6	Explain in detail combined footing with neat sketch.
Q.7	Explain in detail raft foundation with neat sketch.
Q.8	Explain various causes of failure of foundation.
Q.9	Define following terms: 1. Header 2. Stretcher 3. Bond 4. Bed 5. Face 6. Bat 7. King closer 8. Queen closer 9. Frog 10. Coping
Q.10	Explain in detail rubble masonry with sketches.
Q.11	Explain in detail Ashlar masonry with sketches.
Q.12	Write note on English bond with sketches.
Q.13	Write note on Flemish bond with sketches.
Q.14	Explain about (1) Water Cement ratio, (2) Grades of concrete
Q.15	Write short notes on: (1) Course Aggregate, (2) Steel Reinforcement bars
Q.16	Write note on: (1) Portland Pozzolana Cement, (2) Rapid hardening cement
Q.17	Explain Batching, Mixing and Transportation of concrete.
Q.18	Explain theory, properties, advantages and basic assumptions of Reinforced Cement Concrete.
Q.19	Explain (1) Battened and Ledged, (2) Framed and Braced doors with neat sketches.
Q.20	Explain (1) Flush, (2) Revolving doors with neat sketch.
Q.21	Define Door, Window and Ventilator. Describe the points for better location of doors and windows.
Q.22	Differentiate: (1) Skylight window Vs Dormer window, (2) Steel window Vs Wooden window
Q.23	Classify various types of windows. Describe factors affecting the selection of size, shape, location and number of windows.
Q.24	Define following terms: 11. Stair

	<ul style="list-style-type: none"> 12. Tread 13. Riser 14. Landing 15. Flight 16. Nosing 17. Scotia 18. Soffit 19. Newel post 20. Baluster
Q.25	Explain in detail requirements of a good stair.
Q.26	How will you fix the dimensions of a step? Explain. Also describe various types of steps.
Q.27	Explain with neat sketches (1) Quarter – Turn stairs, (2) Half – Turn stairs
Q.28	Explain geometrical stairs.
Q.29	What are the essential requirements of a floor? Elaborate various points for selection of flooring material.
Q.30	Explain single and double joist timber floors with neat sketches.
Q.31	Explain brick jack arch flooring and concrete jack arch flooring with neat sketches.
Q.32	Explain in brief King post and queen post trusses with sketches.
Q.33	Explain in brief roof covering materials.
Q.34	Describe advantages and disadvantages of flat roofs. Also explain mud terrace roof.
Q.35	Define terms: <ul style="list-style-type: none"> 1. Span 2. Rise of roof 3. Pitch of roof 4. Eaves 5. Valley 6. Gable 7. Verge 8. Common rafters 9. Purlins 10. Cleats
Q.36	Explain with sketches Brick-Jelly terrace roofing and Mud-phuska terracing with tile paving.
Q.37	What is plastering? What are the requirements of good plaster? Explain various types of mortars used for plastering.
Q.38	Define pointing. Elaborate various types of pointing with sketches.
Q.39	Explain with sketches Brick layer's scaffolding and Cantilever or needle scaffolding.
Q.40	Explain in detail underpinning