

**ARYACOLLEGEOFENGINEERING
SAMPLEGUESSPAPER
(IIYearB.tech.IISemester2025-2026)**

3CE4-07:BUILDINGMATERIALANDCONSTRUCTION

Chapter- 1-2:

Short Answers(2marks)

Q. 1 Explain Flooring:

1. Linoleum
2. Rubber

Q.2 Explain PVC Materials

Q.3 What is POP? Explain.

Q. 4 Write the names of stone Masonry.

Q.5 Explain names of Lightweight concrete blocks.

Q. 6 Write the names of names of Brick Masonry.

Q.7 What is Seasoning of Wood.

Descriptive Answers: (5to20 Marks)

Q.1 What are the Geological classifications of rocks?

Q.2 What do you mean by stone Dressing and test of stones?

Q. 3 Explain classification, seasoning, conversion, prevention of wood.

Q. 4 Explain Glazing and its use.

Q. 5 Explain various types of varnish and Paints.

Q. 6 Explain various types of lime in detail.

Q.7 Explain Mild and HYSD Steel and common test on steel.

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Chapter3-4

Short Answers(2 marks)

- Q. 1 Write the names of Sheks in wood.
- Q. 2 Write the names of Rubble masonry.
- Q.3 Write the names of Upper Floors.
- Q.4 Write the names of ground floors.
- Q. 5 Draw the diagram of timber with names.
- Q. 6 Draw the diagram of rubble masonry stones.

Descriptive Answers: (5to20 Marks)

- Q. 1 Explain types of Plaster.
- Q. 2 What is difference between stone and brick masonry.
- Q.3 Explain type of Ashlar masonry within at sketches.
- Q. 4 Explain brick bonds with neat sketches.
- Q.5 Explain types of Pointing with neat sketches.
- Q. 6 Explain Functions and Tests of the plaster.

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Chapter 5-6

Short Answers (2 marks)

Q.1 Draw a sketch of building component.

Q.2 Draw a section of building components.

Q.3 Write the names of Super Structure Building components.

Q. 4 Draw a neat sketch of Concrete Floor.

Q. 5 Draw a neat sketch of Pile Foundation with names.

Q. 6 Write the names of types of buildings.

Descriptive Answers: (5to20 Marks)

Q. 1 Explain types of footing with neat sketches.

Q. 2 Explain Precast and Cast in Situ Construction.

Q. 3 Explain the properties of Good Floor.

Q. 4 Explain Upper Floors and Ground floor and its Type.

Q. 5 Explain basic function and requirement of buildings.

Q. 6 Explain difference between load bearing and framed structure.

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Chapter7-8

Short Answers(2 marks)

Q. 1 Draw a neat sketch of pile foundation.

Q. 2 Write the name of types of expansion joints.

Q.3 Write the names of Super Structure Building components.

Q.4 Write the names of construction joints.

Q.5 What are the causes of dampness?

Q.6 What is anti-termite treatment?

Descriptive Answers: (5to20 Marks)

Q. 1 Explain design of shallow foundation.

Q. 2 Write a note on Underpinning.

Q.3 Explain Scaffolding with sketches.

Q. 4 Explain Raking and Flying Shores with sketch.

Q. 5 Explain causes and development of defects and correct position of joints.

Q.6 Explain pile foundation.

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Chapter 9-10

Short Answers(2 marks)

Q.1 Enumeratedifferent types of roofs.

Q.2 Whatare the requirements of good staircase?

Q.3 What is purpose of partition wall?

Q.4 What do you understand by arches and lintels?

Q. 5 Write the classification of staircase.

Q. 6 Differentiate Shell roof and pitched roof.

Descriptive Answers: (5to20 Marks)

Q. 1 Explain different types of arches and their construction details.

Q.2 Whatisthepurposeofroofcovering? Explain the classification of roof.

Q.3 Explain Staircase.

Q. 4 Explain the types and uses of partition wall.

Q. 5 Explain different types of lintels and their construction details.

Q. 6 Explain Flat Pitched And Shell Roofs.

Q.7 Explain truss roof in detailed and their types.