

ARYACOLLEGE OF ENGINEERING
SAMPLE GUESS PAPER
(II Year B.tech. III Semester 2025-2026)

3CE4-07: BUILDING MATERIAL AND CONSTRUCTION

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: (5 to 20 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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Chapter 3-4

Short Answers (2 marks)

- Q. 1 Write the names of Sheds 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: (5 to 20 Marks)

- Q. 1 Explain types of Plaster.
- Q. 2 What is the difference between stone and brick masonry.
- Q. 3 Explain type of Ashlar masonry with neat 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: (5 to 20 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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Chapter 7-8

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: (5 to 20 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 Enumerate different types of roofs.
- Q.2 What are the requirements of good staircase?
- Q.3 What is the 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: (5 to 20 Marks)

- Q.1 Explain different types of arches and their construction details.
- Q.2 What is the purpose of roof covering? 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 detail and their types.