

Code No: R05210104

**R05****Set No. 2**

**II B.Tech I Semester Examinations, November 2010**  
**BUILDING MATERIALS AND CONSTRUCTION**  
**Civil Engineering**

**Time: 3 hours****Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. What are the methods of damp-proofing the buildings? Explain each method briefly giving a free hand sketch? [16]
2. State with reasons, the stones you would recommend for use in following works :
  - (a) Road metal
  - (b) Railway ballast
  - (c) Building near by sea
  - (d) Decorative works
  - (e) Fire proof
  - (f) Roof coverings
  - (g) Water retaining
  - (h) Retaining walls. [8×2=16]
3. (a) Discuss the defects in brick work?  
(b) Explain about:
  - i. Raking bond
  - ii. Bond in columns. [8+8]
4. (a) Enumerate and explain the causes of failure of shallow foundations and measures to prevent such failures.  
(b) Draw the neat sketch of the following and explain features.
  - i. Wall footing
  - ii. R.C.C footing. [10+6]
5. Define a Lintel? Draw a neat sketch and explain in brief about different types of Lintels. [16]
6. How can you assure in the field, whether the cement being used is good or poor quality? [16]
7. Describe briefly application of following materials in building industry.
  - (a) Glass
  - (b) Gypsum [8+8]

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**R05**

**Set No. 2**

8. Write short notes on :

- (a) Objects of seasoning of timber
- (b) Classification of timber for seasoning purposes
- (c) Advantages of timber over other materials of construction. [4+4+8]

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FIRSTRANKER

Code No: R05210104

**R05****Set No. 4**

**II B.Tech I Semester Examinations, November 2010**  
**BUILDING MATERIALS AND CONSTRUCTION**  
**Civil Engineering**

**Time: 3 hours****Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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  - (c) Building near by sea
  - (d) Decorative works
  - (e) Fire proof
  - (f) Roof coverings
  - (g) Water retaining
  - (h) Retaining walls. [8×2=16]
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  - (a) Discuss the defects in brick work?
  - (b) Explain about:
    - i. Raking bond
    - ii. Bond in columns. [8+8]
5. Define a Lintel? Draw a neat sketch and explain in brief about different types of Lintels. [16]
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7. Describe briefly application of following materials in building industry.
  - (a) Glass
  - (b) Gypsum [8+8]

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**Set No. 4**

8. (a) Enumerate and explain the causes of failure of shallow foundations and measures to prevent such failures.
- (b) Draw the neat sketch of the following and explain features.
- i. Wall footing
  - ii. R.C.C footing.
- [10+6]

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FIRSTRANKER

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**R05****Set No. 1**

**II B.Tech I Semester Examinations, November 2010**  
**BUILDING MATERIALS AND CONSTRUCTION**  
**Civil Engineering**

**Time: 3 hours****Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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  - (h) Retaining walls. [8×2=16]
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  - (a) Glass
  - (b) Gypsum [8+8]
4. How can you assure in the field, whether the cement being used is good or poor quality? [16]
5. (a) Enumerate and explain the causes of failure of shallow foundations and measures to prevent such failures.  
 (b) Draw the neat sketch of the following and explain features.
  - i. Wall footing
  - ii. R.C.C footing. [10+6]
6. What are the methods of damp-proofing the buildings? Explain each method briefly giving a free hand sketch? [16]
7. (a) Discuss the defects in brick work?  
 (b) Explain about:
  - i. Raking bond
  - ii. Bond in columns. [8+8]

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**R05**

**Set No. 1**

8. Write short notes on :

- (a) Objects of seasoning of timber
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- (c) Advantages of timber over other materials of construction. [4+4+8]

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FIRSTRANKER

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**R05****Set No. 3**

**II B.Tech I Semester Examinations, November 2010**  
**BUILDING MATERIALS AND CONSTRUCTION**  
**Civil Engineering**

**Time: 3 hours****Max Marks: 80**

**Answer any FIVE Questions**  
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2. Describe briefly application of following materials in building industry.
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  - i. Raking bond
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5. (a) Enumerate and explain the causes of failure of shallow foundations and measures to prevent such failures.  
 (b) Draw the neat sketch of the following and explain features.
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  - (f) Roof coverings
  - (g) Water retaining
  - (h) Retaining walls. [8×2=16]

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**R05**

**Set No. 3**

8. Write short notes on :

- (a) Objects of seasoning of timber
- (b) Classification of timber for seasoning purposes
- (c) Advantages of timber over other materials of construction. [4+4+8]

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FIRSTRANKER