

B.Arch. Part-II 4th Semester Examination, 2009

Materials and Methods of Construction-IV
(AR-402)

Time : 3 hours

Full Marks : 70

Answer any FIVE questions.

Credit shall be given for good sketches.

Answer one question at one place.

1. (i) Describe the benefits of plastering brick walls. How you would obtain smooth finished surfaces before applications of any synthetic paint over walls and ceiling?
(ii) Compare the relative advantages and disadvantages of time Punning and Plaster of Paris treatment on walls. [8+6]
2. Describe the methods of laying different types of stone flooring over subbases. What type of flooring would you recommended for factories and warehouses and why? [14]
3. Briefly describe the basic requirements of different partition walls. Draw a proportionate sketch (including plans) showing two successive layers of a partition wall junction of a 250 mm thick and 125 mm thick brick walls arranged in perpendicular direction. [14]
4. (i) Explain the causes of Dampness in a building. Describe the techniques of damp prevention in different parts of a building.
(ii) Draw a neat-sketch showing how water proofing treatment is provided over a flat roof and parapet wall junction. [8+6]
5. (i) Why 'Primer' is applied before final painting over any surface. How many types of primers are normally used and on what type of surfaces they are applied?
(ii) On what type of wooden surface you would apply 'French Polish'? [12+2]
6. What are the basic differences structurally glazed walls and certain walls when applied externally? Draw a cross sectional view of structural glazing work-applied on wall surface. [14]

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7. Write short notes on any two :

[7x2]

- (i) Suspended ceiling,
- (ii) Application of ceramic tiles on bathroom dado,
- (iii) Timber flooring,
- (iv) Raised flooring in orifices,
- (v) Fire Resistant construction.