

S.No. : 90

BID 1451

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 10715

Roll
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BID Examination 2021-22

(Even Semester)

MATERIALS AND CONSTRUCTION TECHNIQUES - IV

Time : Three Hours]

[Maximum Marks : 60

- Note :-**
- (i) Attempt all questions.
 - (ii) Marks are written against each question / section.
 - (iii) Support your answers with the help of neat sketches.
 - (iv) Assume any missing data.

SECTION - A

1. Attempt all parts of the following : 8×1=8
 - (a) Name any two contemporary materials preferably used for railings in office buildings.

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- (b) Name any five brands supplying flooring tiles in Indian market.
- (c) Suggest suitable type of flooring tiles for ramps in a hospital building.
- (d) Which type of furniture will you suggest to be used in a commercial kitchen?
- (e) Mention the permissible dimensions of tread and riser in dog-legged staircase.
- (f) Suggest any suitable material for false ceiling of a sound-recording studio.
- (g) Mention the suitable height of parapet of an accessible terrace.
- (h) Name any two material for interior wall finishes.

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$
- (a) Elaborate on the laying process of vitrified tile flooring.
 - (b) Discuss the advantages and disadvantages of using ceramic tiles.

- (c) What do you understand by 'Wall Panelling'? Discuss its advantages and disadvantages.
- (d) Elaborate on different types of lifts and their usages in buildings.

SECTION – C

Note :- Attempt all questions. 8×5=40

3. Attempt any two parts of the following :
- (a) Give a list of materials which are commonly used as floor-finish and give a brief discription of at least four of them.
 - (b) Discuss the process of carrying out plaster in cement mortar in 'two coats'.
 - (c) Differentiate between the following :
 - (i) Linoleum and tile flooring
 - (ii) Terrazzo and marble flooring
4. Attempt any two parts of the following :
- (a) Discuss the type of lifts used for service areas. Give name of any two lift manufacturing brands.

- (b) Elaborate on various design considerations to be kept in mind while designing railings and parapets.
 - (c) List different types of stairs to be used in building and mention their design considerations.
5. Attempt any two parts of the following :
- (a) Elaborate on the process of wall cladding.
 - (b) Discuss the materials to be used in false ceiling suitable for catering heat and sound insulation.
 - (c) Discuss the advantages of modular furniture over conventional furniture.
6. Attempt any two parts of the following :
- (a) How functionality govern selection of wall finishes for interiors?
 - (b) Sketch a section of 4-5 steps of a folded plate staircase and show the details of fixing of baluster.
 - (c) What do you understand by built-in furniture? Discuss.

