

AR-2028

Faculty of Engineering & Technology

B.Arch. (Architecture) Semester-V (C.G.S.) Examination

SPECIFICATION

(10040)

Paper—5 AR 04

Time : Three Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Questions No. 5 and 10 are compulsory.
- (3) Diagrams and Chemical equations should be given wherever necessary.
- (4) Use of slide rule, logarithmic tables, Steam tables, Mollier's Chart, Drawing instrument, Thermodynamic table for moist air, Psychrometric Charts and Refrigeration charts is permitted.
- (5) I.S.I. Hand book for structural Steel section, I.S. Code 800/1962 or 1964, I.S. 456 (Revised) I.S. 875 may be consulted.
- (6) Use of D.A. Lows "Pocket Book For Mechanical Engineers" is permitted.
- (7) Discuss the reaction mechanism wherever necessary.
- (8) Use pen of Blue/Black ink/refill only for writing the answer book.

1. What is the role of an Architect in writing the "specification" ? Prove with examples. 10

OR

2. Describe in brief the different types of specifications specified by Govt. Organisations. 10

3. Give reasons why the specifications should be designed by competent persons, possessing wide experience and high ability ? 10

OR

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(Contd.)

4. What are the advantages and disadvantages of open specifications ? 10
5. Write short notes on (any **three**) :
- (i) Restricted specifications
 - (ii) Technical provisions
 - (iii) Importance of specifications
 - (iv) Use of P.W.D. specification
 - (v) Difference between drawings and specifications. 20
6. Write specification for single leaf fully panelled teak wood door, support your answer with sketches assuming common dimensions for a residential building with load bearing walls of appropriate wall thickness. 10

OR

7. What is the specification for a ceiling of the operation theater, what type of material you would select for ceiling ? 10
8. Differentiate between the following :
- (i) General provisions and standard specifications
 - (ii) Brief specification and detailed specification
 - (iii) Drawings and specifications.

OR

9. Give reason for the following :
- (i) The architect has to spend his valuable time in framing open specification.
 - (ii) A specification should be designed rather than simply written or copied. 10
10. Write specifications for the following (any **three**) :
- (i) Ist class brick work in c.m. 1 : 6
 - (ii) 20 mm sand faced cement plaster
 - (iii) Whitewashing in three coats
 - (iv) Removal of water from foundation. 20