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B. Arch
PAR 1004

Second Semester Examination – 2008

BUILDING MATERIAL – II

Full Marks – 70

Time : 3 Hours

*Answer Question No. 1 which is compulsory
and any **five** from the rest.*

*The figures in the right-hand margin
indicate marks.*



1. (a) Answer the following questions : 2 × 5
- (i) State the cause and effect of white rot in wood.
 - (ii) What is French Polish and where it is used ?
 - (iii) What role does red lead play in oil paint ?

- (iv) State the causes of cracking of paint film on painted surface.
 - (v) State at least two uses of glass wool.
- (b) Fill in the blank space selecting appropriate word given at the end of each sentence : 2×5
- (i) Creosote is used for preservation of _____. (concrete/steel/timber)
 - (ii) Blast furnace slag is sometimes used in manufacture of _____. (Bronze/Cement).
 - (iii) _____ steel is used in construction of prestressed concrete structural members. (High tensile/Mild)
 - (iv) Covering the upper surface of iron with a thin layer of _____ is known as galvanising. (tin / zinc)
 - (v) _____ glass is formed by embedding a wire matting at the centre of the glass sheet during casting. (foamed/frosted/wired)

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Contd.

2. (a) Sketch the cross section of the trunk of an exogenous tree and show there in (i) Pith, (ii) Sap wood, (iii) Cambium layer and (iv) Annual rings. 4
- (b) What are 'burls' in a tree ? State the causes of formation of such burls. 4
- (c) List the causes of occurrence of wet rot in timber. 2
3. (a) What are 'veneers' ? How veneers are used in manufacture of ply wood ? 5
- (b) Enumerate the process of kiln seasoning of timber. 5
4. (a) State the properties of high tensile steel. 2
- (b) Name the raw materials required in manufacture of pig iron. 3
- (c) Describe the uses of rolled steel sections in buildings. 5
5. (a) State the functions of vehicle in oil paint. Name at least two materials generally used as vehicle in oil paint. 4
- (b) Describe the process of repainting of old iron and steel works with enamel paint. 6

6. (a) Name the raw materials required in manufacture of glass. 4
- (b) State the characteristics of soda lime glass and plate glass. 4
- (c) Suggest the locations in a building where (i) frosted glass and (ii) glass wool need to be used. 2
7. (a) Enumerate the advantages of corrugated iron sheets over corrugated asbestos cement sheets as roofing material. 8
- (b) State the function of (i) bitumen washer and (ii) hook bolt in corrugated galvanised iron sheet roofing. 2
8. (a) Explain the difference between Allahabad tile and Mangalore tile. 5
- (b) State the I.S.I. specification regarding effective length and width of Mangalore tiles. 2
- (c) Describe the pattern of placement of pot tiles as roof covering. 3