

**6th Semester (Civil Engg.)
Rural Technology****Time: 3 Hrs.****Maximum Marks: 100****Section-A****Q.1. Attempt any 15 parts:****15x2=30**

- (A) State True or False
- (i) Low cost construction in rural areas can be achieved by locally available materials.
 - (ii) Smokeless chullah is made of timber.
 - (iii) Roofing tiles are used on sloping roof as coverings.
 - (iv) Rural roads are essentially low cost roads.
 - (v) Mud walls are costlier than Brick wall.
 - (vi) Ventilation in houses repaired for sound proofing.
 - (vii) Chlorination of open well is done with chlorine.
 - (viii) Bunds are constructed above roadside.
 - (ix) Brick Arches are less costly than reinforced concrete lintels.
 - (x) Ferro current can be considered as motor impregnated reinforcement.
 - (xi) Soak pits are used for water purification.
 - (xii) The life of thatched roofs is increased by non-erodable mud plaster on the exposed surface.
 - (xiii) Ferro current provides economical, strong and durable substitute for replacing wooden items in building industry.
 - (xiv) Fiber corrugated sheets are stronger than G.I. sheets.
 - (xv) Cement treated gunny bags are used for construction of sheds.
 - (xvi) Termite increases the strength of timber.
 - (xvii) Bitumen gives fire resistance in buildings.
 - (xviii) Roads constructed in villages is called Rural Roads.

Section-B**Q.2. Attempt any 10 parts:****10x4=40**

- (i) What do you mean by Rural Technology?
- (ii) How the "Appropriate Technology" is applied in Civil Engineering projects?
- (iii) Describe the suitability of adapting the construction of mud houses.
- (iv) Discuss importance of locally available materials in context of rural housing construction projects.
- (v) Discuss methods of improved thatched roof construction.
- (vi) Discuss the need and importance of low cost housing.
- (vii) What is Chlorination?
- (viii) Explain what you understand by rural sanitation.
- (ix) What do you mean by rural sanitation?
- (x) Explain Rapid burning low cost Bricks.
- (xi) How solar seasoning plants work.
- (xii) How community biogas plants work.
- (xiii) Can Cement concrete be one of the low cost materials?
- (xiv) How low cost roof can be constructed. Give four factors.
- (xv) How Fly Ash bricks proved to be cheaper than normal burnt bricks?

Section-C**Attempt any three questions****10x3=30**

- Q.3. Describe the construction of a low cost latrine along with a neat diagram.
- Q.4. Give the salient features of design and construction of rural roads.
- Q.5. Explain various types of common tiles used for floor finishing in India.
- Q.6. Explain construction of Ferro cement storage tank.
- Q.7. What are commonly available tiles in India? Explain in detail floor tiles.

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Michael Seilmaier



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