

- Q.30 What material is used in Construction of prefabricated septic tank.
- Q.31 What are the various methods of soil stabilization?
- Q.32 Discuss briefly the construction of low-cost brick kiln.
- Q.33 Explain the working of solar cooker.
- Q.34 Define Concrete blocks and precast lintels.
- Q.35 What is the importance of Ferrocement in building construction.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What are the points to be kept in mind for proper ventilation and drainage of low-cost houses?
- Q.37 Explain the important design features and construction details of rural roads.
- Q.38 Give salient features of
- Low-cost drains
  - Low lift pumps

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Roll No. ....

**6th Sem / Branch : Civil Engineering, Constr. Mgmt**  
**Subject:- Rural Technology**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 What are the materials used in building houses in rural areas?
- Bamboo
  - Grass
  - Sand
  - All of the above
- Q.2 In case of mud walls, Earth below the wall is dug about.....mm deep.
- 100-200mm
  - 200-300mm
  - 300-400mm
  - 0-100mm
- Q.3 Which chemical is used as a soil treatment in termite proofing?
- Chlorine
  - Bromine
  - Aldrin
  - Potassium hydroxide
- Q.4 Which of the following about thatch roof coverings is false?
- They are very light
  - They are not stable against wind
  - They are non-combustible
  - They are likely to decay

- Q.5 Sand stone is a.....
- Sedimentary rock
  - Metamorphic rock
  - Igneous rock
  - Volcanic rock
- Q.6 A Performance of well is measured by
- Specific yield
  - Specific capacity
  - Storage coefficient
  - Permeability coefficient
- Q.7 Fibre used to make gunny bags
- Wool
  - Cotton
  - Jute
  - Nylon
- Q.8 Which material is not used in construction of specific tank
- Concrete
  - Rubber
  - Fibre Glass
  - Plastic
- Q.9 What is the problem with using fly ash bricks?
- Efflorescence
  - Costly
  - Expand
  - Not sound proof
- Q.10 How much percent is biogas normally designed to hold?
- 35%
  - 20%
  - 50%
  - 80%

#### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is the minimum thickness of thatch roof covering?

- Q.12 Name any locally available material used in construction of rural building.
- Q.13 What should be added to increase the compressive strength of mud wall?
- Q.14 What is smokeless chullaha?
- Q.15 What is the depth of open well?
- Q.16 What is the purpose of soak pit?
- Q.17 What is the common method of soil stabilization for road construction?
- Q.18 Which material is used in Ferrocement storage tank?
- Q.19 Name two methods of seasoning timber.
- Q.20 How high can you build a concrete wall?

#### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What is the importance of low-cost construction in rural areas?
- Q.22 What are the advantages and disadvantages of Anti termite method?
- Q.23 Write a short note on mud walls?
- Q.24 How the life of thatched roof can be increased?
- Q.25 Discuss the construction of smokeless chullaha.
- Q.26 Why chlorination is required?
- Q.27 Discuss the construction of Hand Pump.
- Q.28 Discuss mud flooring along with its advantages and disadvantages.
- Q.29 Give the salient features of fire proofed thatched