

- 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
 a) Low-cost drains
 b) Low lift pumps

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**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?
 a) Bamboo b) Grass
 c) Sand d) All of the above
- Q.2 In case of mud walls, Earth below the wall is dug about.....mm deep.
 a) 100-200mm b) 200-300mm
 c) 300-400mm d) 0-100mm
- Q.3 Which chemical is used as a soil treatment in termite profiting?
 a) Chlorine b) Bromine
 c) Aldrin d) Potassium hydroxide
- Q.4 Which of the following about thatch roof coverings is false?
 a) They are very light
 b) They are not stable against wind
 c) They are non-combusitble
 d) They are likely to delay

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