

B.E. Civil Engineering (Model Curriculum) Sem-V
PECCE501 : Construction Project Planning and System

P. Pages : 2

Time : Three Hours



GUG/W/22/13721

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Illustrate your answers wherever necessary with the help of neat sketches.

1. Plan a single storey building for the primary health centre and draw a single line plan on full size graph paper giving details of room size door and window. **16**

OR

2. a) Draw free hand sketches of following. **10**
i) Paneled Door
ii) RCC dog legged staircase.
- b) What is the importance of building drawing in Civil engineering. **6**
3. Design and draw a plan for a single storied framed structure with RCC roof for politician with a provision of office room and other essential accommodation politician want three bed room, one as master bed room, second for married son and third for college going girl. **16**
i) Plot size 15m x 20m
ii) Margin front – 4.5m
Rare and side – 3.0m
iii) 10m wide road along 15m side of plot.
iv) Stair case to be provided.
Draw the following.
i) Working plan to a scale of 1:50
ii) Site plan to a scale of 1:200.

OR

4. a) Define project. What are the stages of project planning. Explain in details. **8**
b) Explain the process of project identification for a construction project. **8**
5. a) State the role of client and contractor in construction planning. **8**
b) Write in detail concept of productivities. **8**

OR

6. a) List and describe in detail various types of construction equipment. **8**
b) Explain the term inventory control. State the objective of inventory control. **8**

7. a) List out various concreting equipment. How would you ensure good quality concrete with these equipment? **8**
- b) What is manpower planning? What are the requirements of manpower planning. **8**

OR

8. a) Explain the term monitoring & controlling in project planning. **8**
- b) Explain why control over quality is essential. Describe various types of inspection of methods. **8**
9. a) What is the importance of 'safety'? Explain various losses which may occur due to the accidents in construction projects. **10**
- b) Write short notes on **any two**. **6**
- i) Personal protection equipment.
- ii) Fire extinguishers.
- iii) Safety monitoring.

OR

10. a) What types of accidents possibility on construction site and their causes. **8**
- b) What are the health hazards created in construction. Give remedial measures. **8**
