

**ELECTRICAL ENGINEERING DEPARTMENT
GOVERNMENT POLYTECHNIC CHHOTAUDEPUR**

Course Code: 3360908

Course Name: **ELECTRIFICATION OF BUILDING COMPLEXES**

ASSIGNMENT-1

Total Marks: 10

CO No	Unit No	COURSE OUTCOMES COVERED IN ASSIGNMENT
1	1	PREPARE ELECTRICAL PLAN, LAYOUT AND TESTING REPORT FOR BUILDING AND COMPLEXES

Q. No	Question	Marks
1	State general requirements of electrical installation.	02
2	Why number of Sub Circuit is needed in Electrical Wiring?	02
3	Prepare test report of electrical installation .	03
4	Discuss factors should be considered for good illumination design.	03

ASSIGNMENT-2

Total Marks: 10

Assignment No.:2

CO No	Unit No	COURSE OUTCOMES COVERED IN ASSIGNMENT
2	2	UNDERTAKE ELECTRIFICATION OF MULTISTORIED BUILDINGS

Q. No	Question	Marks
1	Draw wiring diagram of multi-storeyed building by tree system.	02
2	Draw neat sketch for single phase sub distribution board for 1. lighting point 25 no. 2. fan point 16 no. 3. computer point 15 no. 4. 5 Amp socket 10 no.	03
3	A three Multistoried Building having Following Data: Light Points 157 Nos. Fan Point 60 Nos, 5A Socket Outlet 45 Nos. Find [1] Building Total Load [2] Number Of Sub Circuit required for the Building .	03

4	Write steps for estimation for internal electrification multistory building.	02
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ASSIGNMENT-3

Total Marks: 10

Assignment No.:3

CO No	Unit No	COURSE OUTCOMES COVERED IN ASSIGNMENT
3	3	UNDERTAKE ELECTRIFICATION OF COMMERCIAL COMPLEXES AND PUBLIC BUILDINGS

Q. No	Question	Marks
1	Compare electrification of residential and multistoried commercial building.	03
2	State special requirements of cultural hall.	03
3	A computer lab 20m X 10m consists of following loads: 1. Light point-20 no 2) Fan point -14 no 3. 5amp socket-6 no. 4) Computer point -50 no. 5. A.C 1.5 T-8 no. Calculate 1) total load 2) total current 3) number of sub circuit 4) size of wire and cable 5) size of D.B.	04

ASSIGNMENT-4

Total Marks: 10

Assignment No.:4

CO No	Unit No	COURSE OUTCOMES COVERED IN ASSIGNMENT
4	4	Estimate cost of distribution system for multistoried buildings and commercial complexes.

Q. No	Question	Marks
1	Explain low voltage distribution system in multistoried building.	04
2	Write the full form of AAC and ACSR.	02
3	Explain low voltage distribution system in multistoried building..	04

ASSIGNMENT-5

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Total Marks: 10

Assignment No.:5

CO No	Unit No	COURSE OUTCOMES COVERED IN ASSIGNMENT
5	5	Install safety devices in multistoried buildings and commercial complexes.

Q. No	Question	Marks
1	How lighting arrestors help safety in High rise buildings?	02
2	Write short note on ELCB..	02
3	Draw and explain fire alarm circuit.	03
4	Explain the principle of cloud chamber type smoke detector.	03
