

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: BARCH
BRANCH: ARCH**

**SEMESTER: IV
SESSION : SP/2020**

SUBJECT : AR252 BUILDING SERVICES - II (ELECTRICAL & LIGHTING)

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates may attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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			CO	BL
Q1	(a) Write a paragraph on different sources of power generation.	[2]	CO1	remember
Q1	(b) How is Hydroelectric power plant different from a Thermal power plant? Explain with proper diagram.	[3]	CO1	understand
Q2	(a) How is electricity transmitted? Differentiate between overhead lines and underground cables.	[2]	CO2	analyse
Q2	(b) What do you mean by substation? What are different classification of substation?	[3]	CO3	understand
Q3	(a) Write short note on any one of the following: (i) Transformer (ii) Distribution Box.	[2]	CO2	understand
Q3	(b) Draw the symbols for electric installation in building for the following. 1. two-way switch 2. conduit on surface 3. ceiling mounted lamp 4. 15 amp socket 5. Switch board 6. fuse	[3]	CO3	apply
Q4	(a) Discuss about the advantage of wire coding system.	[2]	CO2	analyse
Q4	(b) Discuss briefly different types of domestic wiring system.	[3]	CO2	analyse
Q5	(a) Explain some important safety rules while work on electric line.	[2]	CO3	apply
Q5	(b) Explain the schematic electrical layout plan for one 2 BHK Flat of a multistoried building, Showing the single line wiring diagram and the different installations.	[3]	CO3	create

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