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Barasat, Kolkata -700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – Dip.EE-2022

Course Name – Electrical Design Estimation and Costing

Course Code - DEEPC601

(Semester VI)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify full safety of an electrical installation is insured when it is provided with
 - a) Proper insulation
 - b) low earth resistance
 - c) proper fuse in circuit
 - d) All of these
- (ii) According to IE rule 77 for high voltage line, identify the height of over head line including service lines erected across the road should not be less than
 - a) 5.9 m
 - b) 6.1 m
 - c) 5.1 m
 - d) 4.5 m
- (iii) Tell insulation resistance of a 240V installation having 10 points should not be less than
 - a) 5 MOhm
 - b) 3 MOhm
 - c) 2 MOhm
 - d) 1 MOhm
- (iv) Identify light energy radiated by an incandescent lamp depends on
 - a) temperature of the filament
 - b) wave length of the light rays
 - c) size of the lamp
 - d) All of these
- (v) Average lumen output of a 1000W halogen lamp is 2000 lm. Choose the approximate luminous intensity of the lamp is
 - a) 4000 cd
 - b) 3200 cd
 - c) 2000 cd
 - d) 1600 cd
- (vi) Identify glare is reduced by
 - a) increasing mounting height of lamp
 - b) using diffuser
 - c) using reflector to cut of the light at certain angle
 - d) All of these
- (vii) Identify the main switch fuse 240-V.a.c. supply is
 - a) I.C.D.P
 - b) I.C.S.P. & N
 - c) All of the above
 - d) none of these
- (viii) As per I.S.S. identify total load in a light and fan sub-circuit of house wiring installation should not be more than

