EEE202: Utilization of Electrical Energy Quiz - 2 (MS 2023-24)

Date: 14/11/2023 Maximum Marks: 10 Time allowed: 30 minutes

Instructions:

- Carefully sign at the correct place in the attendance sheet.
- Clearly write your name and admission number and sign in the space provided.
- Any answer script without a name/admission number may not be evaluated.
- Write your answer only in the space provided. Answers written at any other place may not be evaluated.
- For a few fill-in-the-blank type questions, options are given within brackets immediately after the blank and separated by a '/'. The correct answer may be chosen from the given options.
- For multiple-choice questions, one or more than one option may be correct. Marks will be awarded only if all correct options are selected.
- Use space at the end of the question paper for rough work.
- This question paper consists of 20 questions of 0.5 marks each.
- Symbols used in this question paper have their usual meanings.

Admission Number:	Name:		Sign:
Q.1. Which of the follow	ving heating methods may ι	use a high-frequency AC	Supply?
☐ Resistance heating		Eddy current heating	
Arc heating	-	☑ Dielectric heating	
•	heating chamber with prov		•
(<mark>oven</mark> /furnace).	·		
Q.3. An ideal heating e	lement is one with	_ (high/ <mark>low</mark>) temperatur	e coefficient.
Q.4. Oxidation of graph	nite electrodes begins at a	relatively(higher/lower) temperature
compared to the carbor	ı electrodes.		
Q.5. Temperature of ch	arge in case of an indirect a	arc furnace is	(higher/lower) than that of
in case of a direct arc fu	ırnace.		
•	power is delivered to an arc		
· · · · · · · · · · · · · · · · · · ·	esistance/ <mark>impedance</mark> /react	tance) of the whole elec	ctric circuit referred to the
secondary excluding th			
Q.7. Ajax Wyatt vertical core furnace is a type of (indirect/direct) heating.		ect/ <mark>direct</mark>) heating.	
Q.8. High heat is obtain	ned in dielectric heating by e	employing	
☑ High-frequency		☐ Both high-vo	Itage and high-frequency
☐ High voltage		None of the given options	
Q.9. Resistance weldi	ng methods which produc	e coalescence at one	or more particular spot(s)
is/are:			
☐ Butt welding		☑ Projection we	elding
Spot welding		☐ Seam weldin	ng
Q.10. Which of the follo	wing welding methods shie	eld the weld from oxygen	and nitrogen?
☑ Shielded metal a	arc welding	☐ Metal arc we	elding
✓ Submerged arc	welding	☐ Carbon arc v	veldina
•	wing is/are the advantage(s		•
☐ It is cheap.	· ·	✓ Shielding gas	•
✓ It gives pure we	ld.	☐ None of the	

Set - A

Q.12. Taps are usually provided on the	(<mark>primary</mark> /secondary) side of a welding	
transformer.		
Q.13. Lux is a unit to measure theIllumination_	•	
Q.14. Depreciation factor is the inverse of		
☐ Waste light factor	☐ Utilization factor	
Maintenance factor	☐ Absorption factor	
Q.15. The cross-section of the positive electrode in an a	arc lamp fed by a DC source is	
(more than/less than/equal to) the cross-section of the r	negative electrode.	
Q.16. The light spectrum of an incandes	cent lamp is	
(continuous/discontinuous).		
Q.17. Blackening of the lamp is least in	(vacuum/gas filled/ <mark>halogen</mark>	
incandescent lamp.		
Q.18. The efficiency of a fluorescent lamp is close to	lumens per watt.	
□ 200	☑ 40	
□ 100	□ 10	
Q.19. The default position of the (bimetallic) conta	cts in a glow-type starter is	
(closed/ <mark>open</mark>).		
Q.20. The operating power factor of a gaseous discharge	e lamp is improved by connecting	
☐ A capacitor in series	☑ A capacitor in parallel	
☐ An inductor in series	☐ An inductor in parallel	
Space for rough	work	