

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

 $({\sf Approved}\,{\sf by}\,{\sf AICTE}, {\sf New}\,{\sf Delhi}\,{\sf and}\,{\sf Affiliated}\,{\sf to}\,{\sf Anna}\,{\sf University}, {\sf Chennai})$





Department of Mechanical Engineering Innovative Teaching Methods

Activity Title	Quiz
Faculty Name/Department	Mr. Muhammad Irfan A A / Mech
Mapped Course Name & Code	ME8693 & Heat and Mass Transfer
Date	13-04-2023
Benefitted Students (Year / Sem / Dept)	III / IV / Mech
Topic	Radiation
Description	Reading information as a way of learning does have its uses. But reading information and then taking a quiz is much more effective. So, quizzes help to retain information. Quizzes can promote deeper engagement with the content of Radiation. (Rule: No passing Questions)
Course Outcomes (CO)	CO 4: Upon the completion of this course the students will be able to Explain basic laws for Radiation and apply these principles to radiative heat transfer between different types of surfaces to solve problems
Performance Indicator (PI)	1.3.1
Mail ID (for review)	mech.irfan@msajce-edu.in
Activity Photos	

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Topics/ Questions:

1. Which is tl	ne fastest	mode of I	neat transfei	?		
a) Conductior convection	b) (Convection	n c) Ra	adiation	d) Both co	onduction and
2. Which law	governs t	he therma	al radiation?			
a) Fourier's la	w b) l	Pascal law	c) Ne	ewton law	d) Stefan-	Boltzmann Law
3. Are these statement 1: Statement 2:	It follows S	tefan-Bolt	zmann Law. ⁄ien's Displac	ement Law.		
a) True, False	b) -	True, True	c) Fa	alse, True	d) False, I	-alse
4. The emiss	ivity of rac	diation is	between			
a) 0 and 1	-			and 11		
E in the rmel	radiation	the sum of a	norm is so	aventad to		
5. In thermala) kinetic ene	•		0,		tic energy d)	thermal energy
6. What is the	e wavelen	gth of the	rmal radiation	on?		
a) 0.1 μm to 1 100 μm	000 μm.	b) 1 μ	m to 100 μm.	c) 0.01 µı	m to 100 μm.	d) 0.1 μm to
7. Can a goo	d insulato	r prevent	radiation?	•		
a) True	b) False		7			
8. What are f	actors of t	hermal ra	diation?			
a) Time	b) Tempe	ature	c) Volume	d) Pressu	ire	
9. According proportional		*	e wavelengt	h of the em	itted radiatior	is inversely
a) Fourier's la	w b) l	Pascal law	c) Ne	ewton law	d) Plank's	law
10	giv	ves the	relationship	between	wavelength	and temperature
a) Fourier'slav	V					•
b)Wein'slaw						
c)Newtonlaw						
d) Plank's law	1					



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Marks:

Group Name	Reg No.	Topic	Marks	
(if ITM is a group	Reg 110.	Topic	Marks	
activity)				
<u>*</u> ,	311820114001,			
	311820114002		15	
	311820114003			
TT 13.6.7	311820114004	D 11 4		
TEAM I	311820114005	Radiation		
	311820114006			
	311820114007			
	311820114008			
	311820114009		10	
	311820114010			
	311820114011			
	311820114012	D 11		
TEAM II	311820114013	Radiation		
	311820114014			
	311820114015			
	311820114016			
	311820114017			
	311820114018		15	
	311820114302			
TEAN III	311820114303	Radiation		
TEAM III	311820114304	Radiation		
	311820114305			
	311820114306	311820114306		
	311820114307			
	311820114308		05	
	311820114309			
TEAM IV	311820114311			
	311820114312	Radiation		
	311820114313	Radiation		
	311820114314			
	311820114315			
	311820114316			
	311820114317			
	311820114318		05	
TEAM V	311820114319			
	311820114320	Radiation		
	311820114321	Kauration		
	311820114322			
	311820114323			
	311820114701			

Outcomes:

A quiz is a quick and informal assessment of student knowledge. Quizzes are often used to briefly test a student's level of comprehension regarding course material, providing teachers with insights into student progress and any existing knowledge gaps of the Radiation basics. And also improves student's interest in the Internal Assessment Test.