

Engineering Chemistry

WorkSheet Unit 5:Advanced Materials

1.	Match the following				
	1.Gy	psum	a. Regains shape on	heating	
	2.Tri	calcium silicate	b. Solids,liquids,gase	es	
	3.Fla	sh point of lubrication	c. controls setting tir	ne of cement	
	4.Tri	ple point of water	d. lowest temperatu	re at which vapour ignites	
	5.sha	ape memory alloys	e. Early strength		
2.	Initial flash set of cement is caused by				
3.	The property of a liquid by virtue which resist to its own flow is called				
4.	The device that can report the presence of analytes using a bio molecular component is called				
5.	The degree of freedom F=				
6.	Major component of Portland cement				
7.	The point where three phases co exist in equilibrium is called				
8.	The lowest temperature at which lubricant gives off vapour is called				
9.	An analytic device that integrates a biological component with a electrochemical detector				
10.	Smart materials are also called as				
11.	Vegetable oils are suitable for thin film lubrication T/F				
12.	The unit	ts of viscosity are stokes	T/F		
13.	Initial setting of cement is due to hydration of aluminate T/F				
14.	Nintinol is a example for shape memory alloy T/F				
15.	The degree of freedom in Eutectic point is non variant T/F				
16.	The reduced phase rule is				
17.	The coefficient of friction for thin film lubrication is				
	a)	0.1 to 0.2			
	b)	0.5 to 0.6			
	c)	0.05 to 0.15			
	d)	0.001 to 0.03			

18. The variance of triple point in one component system

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	a)	Non variant
	b)	Univariant
	c)	Bivariant
	d)	Trivarient
19.	The gluo	cose sensor works by using
	a)	Glucose oxidase
	b)	Hydrogen perioxide
	c)	Enzyme
	d)	Initiator
20. A region of a system that is uniform in chemical composition and physical state		
	a)	Phase
	b)	Component
	c)	Degree Of Freedom
	d)	Triple Point
21.	Lubrican	t used for refrigerators in industries
	a)	Low Pour Point
	b)	Low Cloud Point
	c)	Low Viscosity
	d)	All The Above
22.	The mat	rerials that change their behaviour in a systematic manner as a response to stimuli

a) Engineering materials

23. For a good lubricant, Viscosity index should be

b) Smart materials

d) Active materials

c) Polymers

a) High

b) Low

c) Normal

d) Unpredictable

24. The initial setting of cement is due to

a) Hydration of Calcium



- b) Hydration of Aluminate
- c) Hydration of Silicate
- d) Hydration of Dicalcium
- 25. Pour point of a lubricant should be
 - a) High
 - b) Low
 - c) High And Low
 - d) None Of The Above
- 26. The materials in which a large deformation can be induced and recovered through temperature changes
 - a) Smart alloys
 - b) Piezoelectric materials
 - c) Shape memory alloys
 - d) Optical fibres