

GSFC UNIVERSITY SCHOOL OF SCIENCE

Admission Common Test for B.Sc. Industrial Chemistry, 2023-24

Time: 30 Minutes Total Marks: 30 Instructions:

- i. All questions are compulsory.
- ii. All questions are Multiple Choice Questions.
- iii. Each question Carries 1 Mark.
 - 1. The phenomenon that cannot take place in sound waves is
 - a. Reflection
 - b. Interference
 - c. Diffraction
 - d. Polarization
 - 2. Working together, sharing and cooperative means
 - a. Empowerment
 - b. Collaborative skills
 - c. Delegating Responsibilities
 - d. None
 - 3. If.... I would not lose temper
 - a. I were you
 - b. I was you
 - c. I am not you
 - d. I am you
 - 4. Please, come..... the bathroom.
 - a. out of
 - b. over
 - c. on
 - d. in
 - 5. Please, don't laugh..... those beggers.
 - a. for
 - b. against
 - c. at
 - d. from
 - 6. Look at all those black clouds! It.... today.



b. Triangle c. Circle d. Parabola

	a.	Is going to rain			
	b.	Is raining			
	c. Will be rain				
	d. Rains				
7.	In	In Huygen's wave theory, the locus of all point in the same state of vibration is known as			
	a.	Wavefront			
	b.	Vibrator			
	c.	Frequency			
	d.	Wavelength			
8.	Speed of sound will be maximum in				
	a.	Solid			
	b.	Liquid			
	c.	Gases			
	d.	water			
9.	•				
		Isothermal			
		Adiabatic			
		Isobaric			
		Isochoric			
10.		he famous Einstein's equation E = mc², what does 'm' stand for?			
	a.	Mass			
		Momentum			
		Meter			
		Mega			
11. Derivative of sinx =					
	a.	-cosx Sinx			
		Cosx			
12		-sinx			
12.	a.	e differential equation is called a linear if degree of the quation is linear			
	b.	Cubic			
	с.	quadratic			
	d.	none			
	ű.				
13. The graph of $y = x$ and $x = 2$ is					
	_	Sauara			
	a.	Square			



	EDUCATION RE-ENVISIONED	
14. The	integration of sinx is	
a.	-cosx	
b.	-sinx	
c.	-tanx	
d.	cosx	
15. Averag	e of all observations in a set of data is known as	
a.	Median	
b.	Range	
c.	Mean	
d.	Mode	
16. Hydrog	gen bond is strongest in	
a.	S-H-O	
b.	O-H-S	
c.	F-H-F	
d.	O-H-N	
17. Which	of the following alkaline earth metals is the rarest in the earth crust?	
a.	Calcium	
b.	Strontium	
c.	Radium	
d.	Beryllium	
18. The main use of salt in the diet is to		
a.	make the taste of food better	

- - b. produce in small amounts the hydrochloric acid required for the digestion of food
 - c. ease the process of cooking
 - d. increase the solubility of food particles in water
- 19. Which of these metals is most commonly used as control rods in the nuclear reactors?
 - a. Platinum
 - b. Cadmium
 - c. Cobalt
 - d. Silver
- 20. The polymer containing strong intermolecular H-bonding and crystalline nature is



- a. Polystyrene
- b. Natural rubber
- c. Teflon
- d. Nylon 6, 6

21. Bithional added to soap acts as

- a. buffering agent
- b. softener
- c. drying
- d. antiseptic
- 22. Drug which is used to reduce anxiety and brings calmness is known as
 - a. Diuretic
 - b. Analgesic
 - c. Antacids
 - d. Tranquilizer
- 23. Butylated Hydroxy Toluene (BHT) as a food additive acts as
 - a. flavouring agent
 - b. colouring agent
 - c. cleaning agent
 - d. antioxidant
- 24. α -D (+) glucose and β -D (+) glucose are
 - a. Enantiomers
 - b. Geometrical isomers
 - c. Epimers
 - d. Anomers
- 25. Hydrolysis of sucrose gives
 - a. Glucose only
 - b. Glucose and galactose
 - c. Maltose
 - d. Glucose + fructose
- 26. F2C = CF2 is a monomer of
 - a. Glyptal



- b. Nylon-6
- c. Buna-S
- d. Teflon
- 27. The correct order of increasing bond length of C H, C O, C C and C = C is
 - a. C H < C O < C C < C = C
 - b. C H < C = C < C O < C C
 - c. C-C < C = C < C-O < C-H
 - d. C O < C H < C C < C = C
- 28. When conc. H2SO4 is heated with P2O5, the acid is converted into
 - a. sulphur
 - b. sulphur dioxide
 - c. sulphur trioxide
 - d. a mixture of sulphur dioxide and sulphur trioxide
- 29. Which of these is NOT an allotropic form of carbon?
 - a. Diamond
 - b. Graphite
 - c. Fullerene
 - d. None of the above
- 30. What is the bond length in C=C bond?
 - a. 156 pm
 - b. 148 pm
 - c. 134 pm
 - d. 172 pm
