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I/II Semester Diploma Examination, Oct./Nov.-2021

APPLIED SCIENCE

	Max. Marks: 1	
il Not	 Students can answer for max. of 100 marks, selecting any sub-section from any main section. 	on
	SECTION - A	
(a)	Define unit of a physical quantity.	
(b)	Define least count of measuring instruments.	1
		2
(a)	State converse law of triangle of forces.	2
(b)	Write the conditions of equilibrium, when number of contract the	-
(c)		2
(0)	Define Stress.	2
(a)	Define viscosity.	
(b)	State Bernoulli's theorem.	2
(-)	otate bernoulli s theorem.	2
(a)	Define specific heat of a substance.	
(b)	State Charles' law.	2
		2
(a)	Define wavelength of the wave.	•
(b)	Write any two factors which affects the velocity of sound in air.	2
		-
(a)	Write any two advantages of nanotechnology.	2
(b)	Write any two disadvantages of satellite communication.	2
(a)	State Faraday's first law of Electrolysis.	
(b)	Write any two applications of pH value of a solution.	2

SECTION - B

1000		SECTION - B
8.	(h)	Draw a neat diagram of Vernier calipers & label its parts. 3+ Define moment of force. Write the equation to measure moment of force and 2+2+
9.	(a) (b) (c)	Explain elasticity and plasticity with example. Explain elasticity and plasticity with example. Define cohesive force and adhesive force with example. Define surface tension. Mention any three applications of capillarity. 2½+20 NCE 2½+210 NCE 2½+210 NCE
10.	(a) (b)	Define conduction, convection and write an example. Define C _p and C _v . Write a Mayer's expression. $2\frac{1}{2} + 2\frac{1}{2} = 3$ Hour $2 + 2 + 2\frac{1}{2} = 3$ Note:
11.	(a) (b)	Explain Newton's formula for velocity of a second correction to it. Distinguish between longitudinal wave and transverse wave.
12.		Write any five properties of Electro-magnetic waves. 5 pefine to Electro-magnetic waves. 5 pefine to Electro-magnetic waves.
13.	(a) (b)	Write any five postulates of Arrhenius incory of the applications of batteries. 2+3 Write the classification of batteries. Write any three applications of batteries. 2+3
14.	(a) (b)	Define corrosion. Write any three prevents Define pH of a solution. Write the pH values of acid, base and neutral solution. 2+1+1+1 pefin
15	. (a)	A uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. when stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The stretched by a hard uniform wire of length 0.5 m and diameter 0.0006 m. The s
16	(a) (b)	Describe an experiment to determine to deter
17	(a)	particle executing STIVI.
18		Write the principle of optical fiber. Give any four applications of optical fiber. 2+4
	(b	Write any six applications of polymers.



