## Inter (Part-II) 2021

Physics	Group-I	PAPER: II	
Time: 20 Minutes	(OBJECTIVE TYPE)	Marks: 17	

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

- Albert Einstein was awarded Nobel Prize in Physics in: 1-1-
  - (a) 1905

e used?

- (b) 1911
- (c) 1918
- (d) 1921 V
- At high frequency, the value of reactance of capacitor will be:
  - (a) Small ✓
- (b) Zero
- (c) Large
- (d) Infinite
- The e/m of neutron is:
  - (a) Less than electron
  - (b) Zero ✓
  - (c) Greater than electron
  - (d) The same as electron

The current gain  $\beta$  of the transistor is given by:

(a) 
$$\beta = \frac{I_B}{I_C}$$

(b) 
$$\beta = I_B + I_C$$

(c) 
$$\beta = I_B - I_C$$

(a) 
$$\beta = \frac{I_B}{I_C}$$
 (b)  $\beta = I_B + I_C$  (c)  $\beta = I_B - I_C$  (d)  $\beta = \frac{I_C}{I_B}$ 

When 10 V are applied to an A.C. circuit, the current flowing in it 100 mA, its impedance is:

- (a) 10 Ohm
- (b) 100 Ohm ✓
- (c) 1000 Ohm
- (d) 1 Ohm

TIPS	Solved Up-to-Date Papers	28	PHISIC	THE RESERVE OF THE PERSON NAMED IN	3.7
6-	If the potential di	fferenc	e across two	plates TIPS	Solved Up-to-
	capacitor is doubl	led, the	energy in it wi	II be: 14-	The inpu
	(a) Two times				(a) Zero
	(c) Four times ✓				(c) High
7-	The dead time of			15-	Gamma
		(b) 10		13-	have sp
	(c) 10 <sup>-6</sup> s	(d) 10			(a) 1 ×
8-	The energy store	d in ind	uctor is:		(c) 3 ×
	(a) $\frac{1}{2}LI^2 \checkmark$	(b) $\frac{1}{2}$	u	16-	The uni
	(c) $\frac{1}{2}L^2I$	(d) $\frac{1}{2}$	1 212		(c) Her
*		The state of the s		7-	The bi
9-	The value of Plan	nck's co	onstant h is:		control
	(a) $6.63 \times 10^{-34} \text{ J}$	s			(a) Pla
	(b) $6.63 \times 10^{-34} \text{ J}$	l/s	X CAR		(c) And
	(c) $6.63 \times 10^{-34}$ J	ls <sup>2</sup>			
	(d) $6.63 \times 10^{-34}$				
10-	The quantity $-\frac{\Delta}{\Delta}$				
	(a) Electric poter	ntial (b)	Electric energy		
	(c) Potential ene	ergy (d)	Potential gradi	ent v	
11-	The critical tem	peratur	e of mercury is		
	(a) 1.18 K	(b)	4.2 K V		
	(c) 3.72 K	(d)	7.2 K	-5 -4-4	
12-	Kirchhoff's see	cond r	ule is a way	or stan	
	conservation of	(b)	Charge		
	(a) Mass		Charge		
	(c) Energy	(u)	hit of hydrogo	n atom is	
13-	- Radius of first	bollr or	0.053 mm	ii atoiii is	
	(a) 0.053 nm ✓			11	
	(c) 0.053 μm	(a)	0.053 M		
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