

Physics All Chapters

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Formula for the time period of mass attached to spring is:

$$\triangle T = 2\pi \sqrt{\frac{m}{4}}$$

(A)
$$T=2\pi\sqrt{\frac{m}{4}}$$
 (B) $T=2\pi\sqrt{\frac{l}{m}}$ (C) $T=2\pi\sqrt{\frac{m}{k}}$

$$T=2\pi\sqrt{\frac{m}{k}}$$

The spring's constant is:

$$\bigcirc$$
 K = -F/X \bigcirc B F=ma

In SHM, velocity at extreme position is:

Maximum

Minimum

Zero

Sometime maximum sometime minimum

The unit of frequency is:

The equation of Hook's Law is:

$$\bigcirc$$
 F=-kx

$$\mathbb{B}$$
 $K = -2F/x$

(B)
$$K = -2F/x$$
 (C) $F = -1/kx$ (D) $F = -x/k$

$$\bigcirc$$
 F=-x/k

In motion of a simple pendulum restoring force is provided by:

- - © Resistance
- Force of gravity

Frequency is equal to:

(A)
$$F = 1/T$$
 (B) $T=2\pi\sqrt{\frac{1}{g}}$

$$\bigcirc$$
 f = kx

If length of simple pendulum on earth is 1 m then its time period is:

- B 1 sec
- (D) 10 sec

When l= 1.0 m then time period of simple pendulum is:

- 1.88 sec
- B 2.11 sec © 1.89 sec
- ① 1.99 sec

10. If mass of the body is increased by the factor of 2, the period of pendulum:

A Remains same

- © Decreased by the factor 2
- B Increased by the factor 2
 Decreased by the factor 4

11. For simple pendulum the formula of time period is:

12. For simple pendulum the formula of time period is:

$$\triangle T = 2\pi \sqrt{\frac{m}{g}}$$



$$T=2\pi\sqrt{\frac{1}{g}}$$

13. Which of the following is an example of simple harmonic motion?

- A The motion of simple pendulum

- © The motion of ceiling fan
- dulum

 B A bouncing ball on floor
 D The spinning of earth on its axis

14. If mass of the body is increased by the factor of 3, the period of pendulum's motion will:

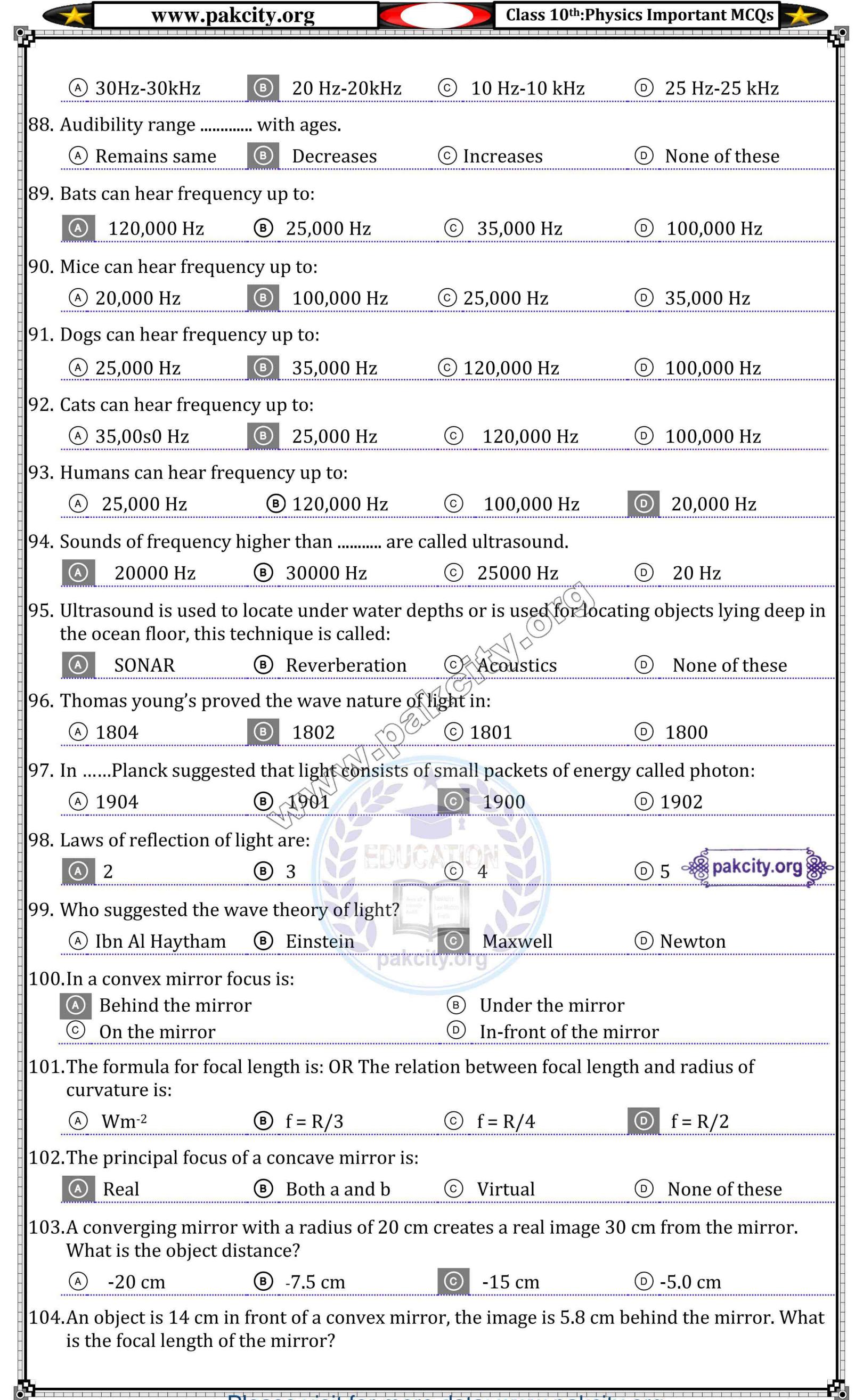
- (A) Be decreased by a factor of 2
- B Remain same
- © Be decreased by a factor of 4
- Be increased by a factor of 2

15. A human eardrum can oscillate back and forth up to........... Times in a second.

- 20000
- B 200
- 200000
- 2000

52.	The sound	level of whis	sper is:				
	A 40 dB	}		©	10 dB	(D)	30 dB
3.	The intens	ity level of fa	intest audible s	ound is:			
	A 40 dB		⊕ 10 dB	©	0 dB	D	130 dB
54.	The intens	ity level of va	acuum cleaner i	S:			
	(A) 100 dI	3	⊕ 10 dB	©	70 dB	D	40 dB
55.	The intens	ity level of m	osquito buzzing	g is:			
	(A) 40 d	lB	⊕ 10 dB	©	30 dB	D	0 dB
56.	Sound leve	el in dB is:					
	(A) 10log	$g\frac{I}{I_0}$	\bigcirc 10log $\frac{I_0}{I}$	©	$\log_{\overline{I}}^{\underline{I_0}}(db)$	D	$\log_{I_0}^{I}(db)$
57.	The loudne	ess of sound	is most closely 1	related to it	īs:		
	(A) Period	l	Amplitude	©	Wavelength	D	Frequency
8.	The pitch o	of sound mos	stly depends on:				
	A Fred	quency	Amplitude	©	Period	D	Wavelength
59.	The freque	ency of silent	whistle lies bet	ween:	26		
	A 10000	-20000 Hz	B 20000-25,0	000 Hz ©	15000-2500	0 Hz 💿	20-20000 Hz
50.	The intens	ity level of la	wn mower is:		(3)		
	♠ 70 dB	}	® 10 dB	(LO)	120 dB	(D)	100 dB
51.	One bell is	equal to:		Deor			- pakcity.org
	(A) 10 d	lB	⊕ 40 dB	©	20 dB	D	90 dB
52.	923	ion of sound	persists in our				
	(A) 0.2 s		(B) 0.02 s	(c) (0.01 s	(D)	0.1 s
	To hear a dat least:	clear echo, th	e time interval l	between or	ir sound and t	he reflec	ted sound must b
	SERVICES BY TEX TEXTS COMM.					ine refree	
	(A) 0.2s		(B) 0.1 s	Arms of a Medicin's Law Moreon C	$0.02 \mathrm{s}$		0.01 s
54.	(A) 0.2 s Speed of so	ound in air:	B 0.1 s).02 s		0.01 s
54.	Speed of so	ound in air: Km/h	B 0.1 sB 1246 km/h	pakcity.or	0.02 s 1262 Km/h	(D)	0.01 s 1264 km/h
	Speed of so	Km/h	B 1246 km/h	pakcity.or	g	(D)	
	Speed of so	Km/h the speed of		pakcity.or	g	(D)	
55.	Speed of so (A) 2162 I In general, (A) Liquid	Km/h the speed of ds	1246 km/h	pakcity.or n © er in:	1262 Km/h None of thes	© ©	1264 km/h Solids
55.	Speed of so (A) 2162 I In general, (A) Liquid	km/h the speed of ds the frequency	1246 km/hsound is greateGases	oakcity.or or in: of speed 34	1262 Km/h None of thes	© ©	1264 km/h Solids
55. 56.	Speed of so (A) 2162 I In general, (A) Liquid Calculate t (A) 680 I	km/h the speed of ds the frequency	1246 km/h sound is greate Gases of sound wave 340 Hz	oakcity.or or in: of speed 34	1262 Km/h None of thes 40 m/s and w	© ©	1264 km/h Solids h 0.5 m?
65. 66.	Speed of so 2162 In general, A Liquid Calculate to 680 In the speed	km/h the speed of ds he frequency Hz of sound in a	1246 km/h sound is greate Gases of sound wave 340 Hz	er in: of speed 34	1262 Km/h None of thes 40 m/s and w	e ① avelengt	1264 km/h Solids h 0.5 m?
65. 66.	Speed of so 2162 In general, A Liquid Calculate to 680 In the speed A 376 m	km/h the speed of ds he frequency Hz of sound in a	1246 km/h sound is greate Gases of sound wave air at 0°C is:	er in: of speed 34	1262 Km/h None of thes 40 m/s and w 170 Hz	e ① avelengt	1264 km/h Solids h 0.5 m? 0.5 Hz
65. 66.	Speed of so 2162 In general, A Liquid Calculate to 680 In the speed A 376 m	km/h the speed of ds the frequency Hz of sound in a	B 1246 km/h f sound is greate B Gases of sound wave B 340 Hz air at 0°C is: B 231 m/s	er in: of speed 34	1262 Km/h None of thes 40 m/s and w 170 Hz	e ① avelengt	1264 km/h Solids h 0.5 m? 0.5 Hz
65. 66. 68.	Speed of so \bigcirc 2162 In general, \bigcirc Liquid Calculate to \bigcirc 680 In Formula f	the speed of ds the frequency Hz of sound in a	1246 km/h sound is greate Gases of sound wave 340 Hz air at 0°C is: B 231 m/s eed of sound is:	oakcity.or oakcity.or or in: o of speed 34 o o	1262 Km/h None of thes 40 m/s and w 170 Hz 386 m/s $y = f/\lambda$	e ① avelengt ① ①	1264 km/h Solids h 0.5 m? 0.5 Hz 331 m/s

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					l _{et}				
	172.Th	e formula of Electr	ric field intensity is:						
	A	Fq_0	$\frac{F}{q_0}$	$\odot \frac{1}{\mathrm{Fq_0}}$	\bigcirc $\frac{q_0}{F}$				
	4000	J of work is done tric potential is:	on a 2C charge agains	st the direction of electr	ic field, the value of				
66 	A	2 V	B 8 V	© 4 V	□ 1 V				
		And the second of the second o	apacitances 3 pF, 4pF alculate equivalent ca		l in parallel combination,				
300	A	17 pF		© 6 pF	① 12 pF				
	175.Th	e SI unit of electric	potential is:						
	A	Ohm		© Joule	Volt				
	176.0n	e volt is equal to:							
	A	1 JC ⁻¹	B 1 C ⁻¹	© 1 JC	D 1 J				
			needed to shift 10 C etween the places is:	of charge from one plac	e to another. The				
8	A	10 V	® 5 V	© 2 V	① 0.5 V				
	178	Blocks DC curre	ent but allows AC curi	rent to pass through the	e circuit.				
	A	Thermometer	Capacitor	© Resistor	Specific resistance				
	179.Th	e capacitance is de	fined as:	AE-201					
	A	$\frac{\mathbf{V}}{\mathbf{Q}}$	$\frac{Q}{V}$	QV	D VC				
	180.Each bolt of lightning contain the energy: A 4000 million joules of energy 1000 million joules of energy								
	101 CL	3000 million joul		© 2000 million jou	nes of energy				
	181.SI	unit of capacitance Coulomb	B Newton	© Volt	Farad				
	102 Co								
	⊕ .	h circuit is called:	o differentiate betwee	en high frequency and l	ow frequency signals.				
	A	Filter circuit	B Parallel circuit	Series circuit	None of these				
			or to store charge is c	_					
	A	Electric energy	B Electric potentia	al © Resistance	Capacitance				
	184.On	e nano Farad is eq	ual to:						
	A	1×10^{-18} F		\odot 1 × 10 ⁻¹² F	① $1 \times 10^{-6} \text{ F}$				
	10F 7ml	C charge is given t capacitance is:	to the plates of capaci	tor and potential betwe	een the plates is 2 V then				
1 11	A	8F	B 6f	© 4F	① 2F				
	186.Giv	e the number of fa	actors which affect the	e ability of a capacitor to	o store charge:				
	A	4	B 3	© 2	① 1				
	187.In	parallel combinati	on of capacitors, each	capacitor will have the	same:				
	A	Voltage	B Charge	© A and B	© Capacitance				
	188.Co	mbinations of capa	acitors are:						
_	4								

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		conductor is due						
		Positive char				Negative ions		
207.What happens to the intensity or the brightness of lamps connected in series as more and more lamps are added:								
A C	annot be change	Remain same	e ©	Increase	(D) I	Decrease		
208.Whei	n resistances are	connected in seri	es the cui	rent passing th	rough the	em is:		
A Z	ero	B Same	©	Different	D N	one of these		
209.The S	SI unit of e.m.f is:							
(A) JC	·	B NC	©	JC ⁻¹	O N	[C-1		
210.Math	ematical form of	f Joule's law is:						
AW	$V = I^2R^2T$	\bigcirc W = IR ² T	©	W = IRT	D W	$I = I^2RT$		
211.Elect	rical Energy is g	iven by:						
(A) ()t	B QC	©	QR	(D) (QV		
		needed to shift 10 etween the places		ge from one pla	ace to ano	ther. The		
	0.5V	B) 10V		2V ~		5V		
			w cupplie	20	who	n one coulomb of		
		2V, then the energe the close circuit.	gy supplie	o by bactery is	whe	ii one coulonio oi		
A 4	-J	® 2.8J	0	5)	(D) 2	2J		
214.What	is the power ra	ting of a lamp coni	nected to	a 12V source w	hen it car	ries 2.5A:		
A 6	OW	B 30W	0	14.5W	D 4.	.8W		
215.The ເ	ınit of electric po	ower is:	*					
(A) V	olt olt	B Joule	©	Ampere	(D) V	Vatt		
216.The 6	electric power of	washing machine	in watt is	Silai				
A 8	00	B 750	©	100	D 5	0		
217.One v	watt is equal to:		Amm of a NewYork Committee Auditi					
(A) S	J-1	B J ² s	kcif©	Js	(D)	S ⁻¹		
218.1kWl	n is equal to: OR	1 kilowatt is equa	l to:					
A 4.	6MJ	B 3.6Mj	©	4.6J	D 3.	.6kJ		
219.When we double the voltage in a simple electric circuit, we double the:								
A P	ower	Both A and C		Current	◎ R	esistance		
220.One 1	nicro ampere is	equal to:						
A 1	0 ⁻¹² A	B 10-9A	©	10 ⁻⁶ A	© 10)-3 A		
221.The s	tudy of magneti	c effect current is	called:					
(A) E	lectric Capacity	B Electromagn	netism ©	Magnetism	© I	Electricity		
222.If we increase current on wire perpendicular in magnetic field, then the magnetic force on wire will be:								
	ncrease	Will be Zero	©	Decrease	D V	Vill not change		
•				•••••••		<u> </u>		

Class 10th: Physics Important MCQs

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A	5 rem	B	3 rem	©	4 rem	D	6 rem
312.The	half-life of lead is	S:					
(A) (10.4 hours	В	10.6 hours	©	10.0 hours	D	10.2 hours
313.The	Half-life of pluto	nium	in years is:				
A	1.85	В	3.85	©	0.85	(D)	2.85
314.The	half-life of a certa	ain is	otope is 1 day. Wl	hat is	s the quantity of the	e iso	topes?
A	One quarter	В	One eight	©	One half	D	None of these
315.The	half-life of radius	n-226	6 is:				
A	2800 years	В	5730 years	©	4000 years	(D)	1620 years
316.For	the diagnosis of b	rain	tumor is used:				
(A)]	Iodine-131	B	Phosphorus-32	©	Cobalt-60	D	Carbon-14
317.The	half-life of Carbo	n-14	is:				
(A) :	3750 years	В	5730 years	©	5370 years	(D)	7530 years
318.In ²	³⁵ U, 92 is the nui	nber	of:				
	Number of proto			В	Protons and Neut	rons	5
<u>©</u>	Neutrons and Ele	ctron	l	D	Number of neutro	ons	
		roton	s) ejects a beta p	artic	le, how many prote	ons a	are left in the
rem	aining nucleus:	\circ	0.4	R	(33)		~~
(A)	90	(B)	91	10	92	<u></u>	93
1000	ease of Energy by		un due to:			_	
	By Nuclear Fusio By Nuclear Fissio		MAIDU	(B)	By chemical react		
***************************************				(D)	By burning of gas	es	
321.The	nuclear fission o			1			
A	Stress Amin	(B)	Newton	(c)	Eon stein	(D)	Snell
			Arm of a comple Audit	Nawton's Law Moskin Farm			
			pakci	ty.o	rg		

