	A 10 cm long salangid has 100 turns what	
	micro ampere current is passed through it?	will be the magnetic field inside it along its axis if one
* 1	A) 4π x 10 ⁻¹³ tesla.	· C) 4π x 10 ⁻¹⁰ tesla.
1	B) $4\pi \times 10^{-7}$ tesla.	D) 4x x 10-16 tesla.
Q.4		strikes the target is given by:
	A) Kiti, = e ² V. B) Kiti, = e ² V.	C) K.E. a ht2.
		S) K.E. ** hr2. S) K.E. ** 8V.
Q.5	LASER is an acronym for:	
	A) Light amplification by stimulated emission of	
	radiation.	C) Light amplitude of stimulated emission of
	. B) Light annihilation by stimulated emission of	radiation.
	radiation.	D) Light amplification by stimulated emission of
		. radio.
Q.6	X-rays can be produced by bombardment of	on target metal:
	A) Protons. B) Electrons.	C) Neutrons.
	by Lieutions.	. D) Alpha particles.
· Q.7	Laser light is monochromatic which means:	
	A) It consists of one ray of light.	
	B) It consists of one wavelength.	C) It consists of carbon monoxide gas. D) It consists of photons baylon 1 of ansara
1		. A series of briotons maring I by energy.
i. Q.8	If an electron in the 'K' shell is removed and a	electron from 'L' shall jumps to occupy the hole in the
		and a sure state of accupy the hole in the
	A) $hf_{K\alpha} = E_L - E_K$. B) $hc = E_L - E_V$.	C) h/2KemEL-Ex.
	B) hc=E _L -E _K .	D) $hf_{Ku}=E_{K}-E_{L}$
Q.9	Which of the following proporty must be at	
9.4	tube?	in a substance so that it can be used as target in X-ray
	A). It must have low melting point.	
	B) It must have low atomic number.	C) It must have high reflecting ability. D) It must have high atomic pumplies.
Q.10		, and acount mumber.
4.10	and the first of t	opulation inversion for the emission of lacer?
	A) Optical pumping. B) Optical fibre.	C) Optical instrument.
	b) Optical libre.	D) Optical polarization.
Q.11	What is the charge on alpha particles and	
	What is the charge on alpha particles emitted do	iring the phenomenon of radioactivity?
	B) -e.	C) -2e.
		D) +2e.
0.12	A radioactive nuclide decays by emitting an a-	particle, a B-particle and a y-ray photon, the change in
		a printing a y-ray photon, the change in
	A) -4: B) -1	C) -2.
		D) -3.
Q.13	A half-life of sodium-24 is which is a	
	· A) 6 hours.	sed to estimate the volume of blood in a patient:
	B) 15 hours.	C) 8 hours.
0.14	14/hint car	D) 15 days.
Q.14	Which of the following is unit of absorbed dose?	
	A) Severt. B) Gray.	C) Roentgen.
*	o, olay.	D) Curie.
.Q.15	In a radioactive phenomenon observation above	
	electric or magnetic field (not shown in the figur	vn in figure where α deviates lesser than β in some
	the figure	of tenat is the reason of less deviation of a?
	7	
	β	α
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	A) α is charged particle.	
	B) a is neutral particle.	α is heavier particle.
		The second of th

D) α is lighter particle.