AWARD LIST

SCREENING TEST (WRITTEN)

FOR THE POST OF TRAINED GRADUATE TEACHERS (TGT) (COTNRACT) UNIVERSITY MODEL SCHOOL, UNIVERSITY OF PESHAWAR

Dated.20.01.2023

Sŧ	Name of applicant with parentage	Subject	<u>Marks</u>	
1.	Hina Iqbal D/O Mr. Muhammad Iqbal	Physics	13	2.5
2.	Khushbakht Rahat Noor D/O Mr. Rahat Noor	Physics	30	5

Jos Mille

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<u>S#</u>	Name of applicant with parentage	Subject	<u>Marks</u>	A Control of the Cont
1.	Asad Ahmad Jan S/O Mr. Naqdullah Khan	Physics	44	
2	Ata Ullah S/O Mr. Mumtaz Khan	Physics	37	
3.	Ayaz Khan S/O Mr. Niaz Khan	Physics	40	grund.
4.	Fawad Ahmad S/O Mr. Fazli Rabi	Physics	Absent	
5.	Majid Ali S/O Mr. Mumtaz Ali	Physics	35	
6.	Sana Ullah S/O Mr. Abdullah	Physics	43	
7.	Tauseer Ahmad S/O Mr. Naseer Khan	Physics	34	





GO GO MATARIA

Our lehan		Father name - NIG	Khan
Name: Ayaz Khan			
1. Which of the following	ig is the smallest pre	etix?	(d) femto
(a) atto	(b) pico	(c) nano	(u) 10
2. A body in equilibrium	n must not be		(d) accelerating
(a) at rest	(b) moving	(c) rotating	(u) accordang
3. The slope of distance	time graph represe	nts	(1) distance
1/	(L) change in acce	deration (c) speed	(d) distance
4 A hike begins to acc	elerate at a constant	0.3 m/s^2 for 3s, what is in	ts change in velocity:
(a) 0.9 m/s	(b) 1.5 m/s	(C) 1.95 III/S	(d) 2.4 m/s
/s VITAR UL MANA	ZIR is the name of b	oool written by	
V	a Vilmal Unithan	a (c) Al Beruii	(d) None
(a) Taylor times th	e centripetal force w	vill increase if the mass of	f a body moving with
unform speed in a c	ircle is doubled?	/	
,•	(b) three times	(c) four times	(d) six times
(a) two times	ving forces can act a	as centripetal force:	
	(b) fraction	(c) gravitational fo	rce (d) all of these
(a) tension 8. Conventionally and			
		(c) parallel	(d) zero
(a) negative	(b) positive		S
i /		nents of force are equal is	(d) 60°
(a) 0°	(b) 30°	•	
10. The S.I unit for gr	avitational constant	(c) Nm ² Kg2	(d) $Nm^{-2}Kg^2$
(a) NKg ²	(b) Nm ² Kg ⁻²	(c) Nin Kg2	
11. When a body is n	noved from sea leve	l to the top of a mountain	, 41.4.0
/w*			(d) none
(a) mass (b)) weight	(c) both mass & weight	• • •
12. An object of mas	s 10 kg is lifted ver	tically through a height o	I a mi, me Brantania
potential energy	gained by the object	t is	(d) 490 J
(a) 10 J	(b) 20 J	(c) 50 J	(u) 470 3

•				
13. Which material is mor	e elastic		(1) 1	
(a) wood	(b) rubber	(c) steel	(d) plastic	
14. The S.I unit of strain i	is		413/	
(a) Kgm ⁻³	(b) Pa	(c) Nm ⁻²	(d) none	
15. Liquid and gases are	collectively categorize	ed as	(1) NI-110	
(a) Liquid	(b) Pascals	(c) Fluids	(d) None	
16. When water at 0°C is	heated, it contracts ti	ll temperature rea	ches	
(a) 1°C	(b) 4°C	(c) 100°C	(a) 1000 C	
17. The amount of heat r	equired to raise the te	mperature of 1 kg	(d) 4190 J	
(a) 100 J	(b) 200 J	(c) 310 J	(a) 4190 J	
18. The transfer of heat	by convection is small	lest in	(J) None	
(a) Solids	(b) Liquids	(c) Gases	(d) None	
19. Which of the follow		ermal conductivity	/ (4) oir	
(a) Wood	(b) water	(c) wool	(d) air	
20. A wave transports			(c) both energy & matter	r
(a) Energy but no n	natter (b) matter b	out no energy	(c) both energy & man	
(d) none			oga anring system	
of Which of the follow		'. I af tha me		.mark
21, which of the follow	ving does not affect th	ne period of the ma	ass-spring by breed	d) All
(a) mass	(b) spring constant	te period of the ma	plitude of vibrations (d) All
(a) mass of the above aff	(b) spring constant fect the period	te period of the ma	aplitude of vibrations (d) All
(a) mass	(b) spring constant fect the period ten a sound wave is	t (c) am	pintude of violations	d) All
(a) mass of the above aff 22. An echo occurs wh (a) absorbed	(b) spring constant fect the period ten a sound wave is (b) transmitted	(c) refracted	aplitude of vibrations (d) reflected	d) All
(a) mass of the above after the control of the above after the control of the con	(b) spring constant fect the period ten a sound wave is (b) transmitted wing cannot transmit	(c) am (c) refracted	(d) reflected	d) All
(a) mass of the above aff 22. An echo occurs wh (a) absorbed 23. Which of the following solid	(b) spring constantfect the periodien a sound wave is(b) transmittedwing cannot transmit(b) liquid	(c) refracted sound (c) gas	(d) reflected (d) vacuum	d) All
(a) mass of the above aff 22. An echo occurs wh (a) absorbed 23. Which of the follow	(b) spring constant fect the period ten a sound wave is (b) transmitted wing cannot transmit (b) liquid f convex mirror with	(c) refracted sound (c) gas radius of curvature	(d) reflected (d) vacuum e 10 cm is	d) All
(a) mass of the above after th	(b) spring constant fect the period ten a sound wave is (b) transmitted wing cannot transmit (b) liquid f convex mirror with to (b) +5 cm	(c) refracted sound (c) gas radius of curvature (c) -10 cm	(d) reflected (d) vacuum	d) All
(a) mass of the above after th	(b) spring constant fect the period ten a sound wave is (b) transmitted wing cannot transmit (b) liquid f convex mirror with the convex mirror with the convex the image of an original spring.	(c) refracted sound (c) gas radius of curvature (c) -10 cm	(d) reflected (d) vacuum e 10 cm is (d) -5 cm	d) All
(a) mass of the above after 22. An echo occurs whe (a) absorbed 23. Which of the follow (a) solid 24. The focal length of (a) +10 cm 25. The human eye for (a) Iris	(b) spring constant fect the period ten a sound wave is (b) transmitted wing cannot transmit (b) liquid f convex mirror with the convex mirror with the image of an of the convex may be retina	(c) refracted sound (c) gas radius of curvature (c) -10 cm (bject at its (c) pupil	(d) reflected (d) vacuum e 10 cm is	d) All
(a) mass of the above aff 22. An echo occurs wh (a) absorbed 23. Which of the follow (a) solid 24. The focal length of (a) +10 cm 25. The human eye for (a) Iris	(b) spring constant fect the period ten a sound wave is (b) transmitted wing cannot transmit (b) liquid f convex mirror with the convex mirror with the convex the image of an of the convex the image of an of the convex mirror with the convex the image of an of the convex mirror with the convex the image of an of the convex the image of the convex the co	(c) refracted sound (c) gas radius of curvature (c) -10 cm (bject at its (c) pupil	(d) reflected (d) vacuum e 10 cm is (d) -5 cm (d) cornea	d) All
(a) mass of the above aff 22. An echo occurs wh (a) absorbed 23. Which of the follow (a) solid 24. The focal length of (a) +10 cm 25. The human eye for (a) Iris	(b) spring constant fect the period ten a sound wave is (b) transmitted wing cannot transmit (b) liquid f convex mirror with the convex mirror with the image of an of the image of an of the image of the constant (K) dep	(c) refracted sound (c) gas radius of curvature (c) -10 cm (bject at its (c) pupil	(d) reflected (d) vacuum e 10 cm is (d) -5 cm (d) cornea	d) All

27. A capacitor 'C' has ch	arge 'Q', the	actual char	ges o	n the plates	are	
(a) Q, Q	(b) Q, 0	(0) Q, ·	-Q	(d) $Q/2$, $-Q/2$	2
28. The resistance of a wi	re will decrea	se by incre	asing			
(a) temperature	(b) length	(c) diame	eter	(d)	both a & b	
29. Two resistance of 1 Ω	are connecte	ed in paralle	el, the	equivalent	resistance is	
(a) 2 Ω		(b) 1.5 C		(c) 1 Ω	(d) 0).5 Ω
30. Slip rings are a part o	f					(4)
(a) DC motor	(b) AC gene	rator		(c) transfe	ormer	(d)
magnet	in anaggag					
31. A step-up transforme		((c) vo	ltage	(d) current	
(a) power	(b) energy		,	8		
32. The unit of inductant	(b) VA/m	.qui vaioni i	(c) A	s/V	(d) V/A	
(a) Vs/A 33. If the magnetic field	is applied par				tron beam, the el	ectron will
	(b) slow do	amer to the	(c) de	eflect	(d) not cha	nge its
(a) Speed up	(0) Slow do	, 4411	(4) 4			
state 34. If the electric field is	onnlied to th	ne direction	of el	ectron bean	, the electron wil	1
	(b) slow do	own	(c) d	eflect	(d) not cha	inge its
(a) Speed up	(0) 310 11 40	, , , , ,				
state	on for NAND	oate is	, and a	out'		.er
35. The Boolean equati	(b) X=A+l	R	(c) X	ζ=ÃB	(d) X=A+	В
(a) X=AD 36. The phenomenon o	f total interna	l reflection	is use	ed in the tra	ınsmission of sigi	nal through
	(b) optical	fiber		(c) elect	tromagnetic wave	es (d)
(a) Electric wires	(b) option	. 110 21				
radio 37. Telephone transmi	ecion is the ex	cample of tr	ansm	ission of si	gnals through	
A C	res (b) optica			(c) elec	tromagnetic wav	es (d) all
/ a, b & c						40
38. What type of nucle	eus decay leav	ves the num	iber o	f protons a	nd neutrons unch	angeu:
(a) Alpha decay	(b) Beta	decay	(c)	Gamma de	cay (d) both	a & o
39. Origin o energy fr						
(a) fission (b)	fusion (c) carbon da	ating	(d) rad	lioactivity	

.**

two charge particles	s become		
(a) half	(b) one quarter	(c) double	(d) four times
41. A convex lens with	focal length 8.00 cm	has the power of t	the lens
(a) 2.05 D	(b) 4.00 D	(c) 12.5 D	(d) 16.0 D
42. The loudness of a s	sound is most closely	related to its	
(a) fraguency	(b) period	(c) wavelengt	
43. If the pendulum co	ompletes exactly 12 cy	ycles in 2.0 min, th	ne frequency of the pendulum i
(a) 0.10 Hz	(b) 0.17 Hz	(c) 6.0 Hz	(d) 10.0 Hz
44. An object at Earth	and taken to Moon sl	hould have	
(a) Same mass/mo	ore weight (b) less m	nass/less weight	(c) same mass/same
weight (d)	same mass/less weig	ht	
45. The shortest dista	nce between two coup	ple forces is	
(a) moment arm	(b) couple arm	(c) radius	(d) double moment
46. The unit used for	pressure in weather n	naps is	
(a) Atm (b)	Pa (c) bar	(d) Nm ⁻²	. 0
47. If the string of the	e pendulum is shorter	ned to half its origin	nal length, then the frequency
will			
(a) Increase by a	factor of $\sqrt{2}$	(b) decrease by a fa	actor of $\sqrt{2}$ (c) increase
a factor of $\frac{1}{\sqrt{2}}$	(d) decrease by	a factor of $\frac{1}{\sqrt{2}}$	
48. Cytoscope is an	instrument used to dis	agnose	11
(a) blood (l	o) eyes		bladder
49. How much work	must be done to inci	rease the potential	of a charge 2.5×10^{-7} C by 100
(a) 1.5×10 ⁻³ (ь Y 2.5×10 ⁻⁵ (c) 3.5×	$<10^{-6}$ (d) 4.5×10	
50. A small flashlig	ht bulb draws 300 m/	A from its 1.5 V ba	attery, the resistance of the bush
(a) 3 Ω	(b) 5 Ω	(c) 10Ω	(d) 15 Ω

$$F = \frac{1}{2} \frac{1}{4} \frac{1}{4}$$

Name: MAJID ALI	Father name	MIAZALI
1. Which of the following is the smallest pref	ix? (c) nano	(d) femto
2. A body in equilibrium must not be (a) at rest (b) moving	(c) rotating	(d) accelerating
4. A bike begins to accelerate at a constant 0	(c) 1.95 m/s	(d) distance ts change in velocity? (d) 2.4 m/s
5. KITAB UL MANAZIR is the name of bo (a) Yaqub Kindi (b) Ibnal Haitham 6. How many times the centripetal force wi	(c) Al Deluin	(d) None of a body moving with
unform speed in a circle is doubled? two times (b) three times	(c) four times	(d) six times
7. Which of the following forces can act as (a) tension (b) fraction	(c) gravitational re	orce (d) all of these
8. Conventionally anti-clock wise torque i (a) negative (b) positive	(c) paraner	(d) zero
9. The angle at which 'x' and 'y' compone (a) 0° (b) 30°	(c) 43	(d) 60°
10. The S Lunit for gravitational constant '	(C) MIII 1282	(d) Nm ⁻² Kg ² n, there is change in the
body's (a) mass (b) weight 12. An object of mass 10 kg is lifted verti	(c) both mass & weight cally through a height c	(d) none of 5 m, the gravitational
potential energy gained by the object (a) 10 J (b) 20 J	(c) 50 J	(d) 490 J

13. Which material is mo	ore elastic	/		
(a) wood	(b) rubber	(c) steel	(d) plastic	
14. The S.I unit of strain	is			
(a) Kgm ⁻³	(b) Pa	(c) Nm ⁻²	(d) none	
15. Liquid and gases are	collectively categorize	zed as	(1) NT -	
(a) Liquid	(b) Pascals	(c) Fluids	(d) None	
16. When water at 0°C	is heated, it contracts	till temperature rea	iches	
() 100	√k√ 4°C	(c) 100°C	(a) 1000 C	
(a) 17C	required to raise the t	emperature of 1 kg	g of water by 1 k is	
(a) 100 J	(b) 200 J	(c) 310 J	(d) 4190 J	
18. The transfer of heat	t by convection is sma	allest in	(4) None	
(a) Solids	(b) Liquids	(c) Gases	(d) None	
19. Which of the follow	wing has the highest th	hermal conductivit	y (d) oir	
(a) Wood	(b) water	(c) wool	(d) air	
20. A wave transports (a) Energy but no	matter (b) matter	but no energy	(c) both energy & matte	er
(d) none				
21. Which of the follo	wing does not affect	the period of the m	ass-spring system	
(a) mass	(b) spring constan	nt (E) an	aplitude of vibrations ((d) All
` '	ffect the period			
22. An echo occurs w	hen a sound wave is		. /	
(a) absorbed	(b) transmitted	(c) refracted	(d) reflected	
23. Which of the foll	owing cannot transmi	t sound		
(a) solid	(b) liquid	(c) gas	(d) vacuum	
			10 am 18	
24. The focal length	of convex mirror with	radius of curvatur	@ 10 Cm 15	
(a) $+10 \text{ cm}$	of convex mirror with	(c) -10 cm	(d) -5 cm	
(a) $+10 \text{ cm}$	(b) +5 cm forms the image of an	object at its	(u) *3 om	
(a) +10 cm 25. The human eye f (a) Iris	(b) +5 cm forms the image of an	object at its (c) pupil	(d) -5 cm (d) cornea	
(a) +10 cm 25. The human eye f (a) Iris	(b) +5 cm forms the image of an (b) retina	object at its (c) pupil	(d) cornea	
(a) +10 cm 25. The human eye f (a) Iris	(b) +5 cm forms the image of an	object at its (c) pupil	(d) cornea	

	. (O) (L. catual al	orges on the plates a	re /
27. A capacitor 'C' has c	harge 'Q', the actual Ci	(c) Q, -Q	(d) Q/2, -Q/2
(a) Q, Q	(b) Q, 0		
28. The resistance of a w	(b) length (c) dia	meter (d) b	oth a & b
(a) temperature			
29. Two resistance of 1	Ω are connected in part	5Ω (c) 1Ω	(d) 0.5 Ω
(a) 2 Ω	(b) 1.5) 12 (0) 1 12	()
30. Slip rings are a part	of	(c) transform	mer (d)
(a) DC motor	(b) AC generator	(c) transform	nei 💎
magnet			
31. A step-up transform	ner increases	<u> </u>	(d) current
(a) power	(b) energy	(c) voltage	(a) carrent
32. The unit of inductar	nce, Henry, is equivaler	nt to	(4) 37/4
(a) Vs/A	(b) VA/m	(c) As/V	(d) V/A
$\sqrt{33}$. If the magnetic fiel	d is applied parallel to	the direction of electr	on beam, the electron will (d) not change its
(a) Speed up	(b) slow down	(c) deflect	(d) not change its
ctate			
\bigvee 34. If the electric field	is applied to the directi	ion of electron bean,	the electron will
(a) Speed up	(b) slow down	(c) deflect	(d) not change its
state		,	
35. The Boolean equa	tion for NAND gate is		
(-) V-AD	.(b\XX=A+B	(c) X = AB	(d) $X = \overline{A} + B$
36. The phenomenon	of total internal reflecti	on is used in the tran	smission of signal through
(a) Electric wires	/	(c) electro	omagnetic waves (d)
radio	•		
37. Telephone transn	nission is the example o	of transmission of sign	nals through
	vires (b) optical fiber	(c) electr	omagnetic waves (ඊ) all
a, b & c	_	1 Countains one	I neutrons unchanged?
38. What type of nuc	cleus decay leaves the n	umber of protons and	ay (d) both a & b
(a) Alpha decay	(b) Beta decay		iy (u) 00m u 23
	from the Sun and Stars	18 (4) modic	pactivity
(a) fission (l	o) fusion (c) carbon	a dating (a) radic	9404 Y 119

			Coulomb force between	een the
40. If the distance between	en two charged part	icles is halved, the	e Coulomb force between	JOII 1110
two charge particles	become		(d) four times	
(a) half	(b) one quarter	(c) double		
41. A convex lens with	focal length 8.00 cm	has the power of	(d) 16.0 D	
(a) 2.05 D	(b) 4.00 D	(k) 12.5 D	(d) 10.0 D	
42. The loudness of a so		related to its	oth (d) amplitud	ع
(a) frequency	(b) period	(c) waveleng	> **	
43. If the pendulum cor	mpletes exactly 12 c	ycles in 2.0 min, t	(d) 10.0 Hz	114441411
(a) 0.10 Hz	(b) 0.17 Hz	(c) 6.0 Hz	(d) 10.0 112	
44. An object at Earth	and taken to Moon s	should have	(c) same ma	acc/came
(a) Same mass/mor	re weight (b) less r	nass/less weight	(c) same ma	155/ Sairie
weight (d)	same mass/less weig	ght		
45. The shortest distan	ce between two cou	ple forces is	(1) 1 11	.
(a) moment arm	(b) couple arm	(c) radius	(d) double momen	l
46. The unit used for p	oressure in weather	maps is		
(b) Atm	Pa (c) bar	(d) Nm ²		a ayanaxi
47. If the string of the	pendulum is shorte	ned to half its orig	ginal length, then the fr	equency
will				
(a) Increase by a		(b) decrease by a	factor of $\sqrt{2}$ (c)	increase by
a factor of $\frac{1}{\sqrt{2}}$	(d) decrease by	a factor of $\frac{1}{\sqrt{2}}$		
48. Cytoscope is an i	nstrument used to d	iagnose		
() blood (b)) eves	(c) stomach (d)) bladder	01 100 VO
40. How much work	must be done to inc	rease the potentia	1 of a charge 2.5×10^{-7} (C by 100 V?
	$\sqrt{2.5 \times 10^{-5}}$ (c) 3.5	×10 ⁻⁶ (d) 4.5×1 ¹	U '	
50. A small flashligh	nt bulb draws 300 m	A from its 1.5 V b	pattery, the resistance c	of the build is
(a) 3 Ω	(b) 5 Ω	(c) 10 Ω	(d) 15 Ω	
				2-5×100
				g 500-X10
		V 10	V* D2	1.5
	٥	2.5 x	12 15 X	30mA
	10 = V =	Lov (0	anter 0	. 7
	·	190	versit x	13 = =
		: (J	302 17
		-	4	

2 3000 1300 X1000 W2 (20) F2 My2 121 $\frac{15}{15} = \frac{7}{20000}$ $\frac{15}{15} = \frac{15}{15} = \frac{15}{10}$ $\frac{15}{15} = \frac{15}{10}$ a=0.3, t=3 了2万层 $\frac{1}{30} \frac{20}{30} = \frac{1}{20} \frac{1}{1} \frac{1}{20} \frac{1}{10} \frac$ 69 10 300 x 10 2 50 X 50 0 X 50 0 < 50 < 50 F= K9192 しなしい 95 (1000 2 $\left(\frac{3c}{3c}\right)$ Q_{2} AUAR

Name: Khushbakht	Father name Ral	hat Noox
1. Which of the following is the smallest pref (a) atto (b) pico	ix? (c) nano	(d) femto
2. A body in equilibrium must not be (a) at rest (b) moving	(c) rotating	(d) accelerating
3. The slope of distance-time graph represen (a) acceleration (b) change in accele 4. A bike begins to accelerate at a constant (a) 0.9 m/s (b) 1.5 m/s	eration $\mathcal{L}(\mathcal{L})$ spece	(d) distance its change in velocity? (d) 2.4 m/s
5. KITAB UL MANAZIR is the name of bo (a) Yaqub Kindi (b) Ibnal Haitham 6. How many times the centripetal force wi	(c) Al Deluin	(d) None of a body moving with
unform speed in a circle is doubled? (b) three times	(c) four times	(d) six times
7. Which of the following forces can act as (a) tension (b) fraction	s centripetal force: (e) gravitational f	Force (d) all of these
8. Conventionally anti-clock wise torque i (a) negative (b) positive	(c) paraner	(d) zero
9. The angle at which 'x' and 'y' compon (a) 0° (b) 30°	ents of force are equal (4e) 45°	(d) 60°
10. The S.I unit for gravitational constant (a) NKg ² (b) Nm ² Kg ⁻² 11. When a body is moved from sea level	(C) IVIII INE	(d) Nm ⁻² Kg ² in, there is change in the
hada'a	(c) both mass & weigh	t (d) none
potential energy gained by the object (a) 10 J (b) 20 J	is (e) 50 J	(d) 490 J

13. Which material is (a) wood	(b) rubber	(c) steel	(d) plastic
14. The S.I unit of str	rain is		
(a) Kgm ⁻³	(b) Pa	(c) Nm ⁻²	(d) none
15. Liquid and gases	are collectively cate	gorized as	
(a) Liquid	(b) Pascals	(e) Fluids	(d) None
16. When water at 0°	°C is heated, it contra	acts till temperature r	reaches
/ 100	(b) 4°C	(c) 100°C	(d) 1000 C
√ 17. The amount of h	neat required to raise	the temperature of 1	kg of water by 1 k is
(a) 100 J	(b) 200 J	(c) 310 J	(d) 4190 J
	heat by convection is	smallest in	
(a) Solids	(b) Liquids	(c) Gases	(d) None
. /19 Which of the fo	llowing has the high	est thermal conductiv	vity
(a) Wood	(b) water	(c) wool	(d) air
()			
20. A wave transpo	orts		0 -44
20. A wave transpo		atter but no energy	(c) both energy & matter
(a) Energy but	no matter (b) ma		
(a) Energy but	no matter (b) ma	fect the period of the	mass-spring system
(a) Energy but (d) none 21. Which of the fo	no matter (b) ma	fect the period of the	
(a) Energy but (d) none 21. Which of the formula (a) mass	no matter (b) made e collowing does not aff (b) spring co	fect the period of the	mass-spring system
(a) Energy but (d) none 21. Which of the fe (a) mass of the above	no matter (b) made e collowing does not aff (b) spring co we affect the period	fect the period of the nstant	mass-spring system mplitude of vibrations (d)
(a) Energy but (d) none 21. Which of the formula (a) mass of the above 22. An echo occur	no matter (b) made e collowing does not aff (b) spring co we affect the period	fect the period of the nstant (c)	mass-spring system amplitude of vibrations (d)
(a) Energy but (d) none 21. Which of the form (a) mass of the above 22. An echo occur (a) absorbed	no matter (b) made collowing does not afford (b) spring cove affect the period rs when a sound wave (b) transmitted	fect the period of the nstant (c)	mass-spring system amplitude of vibrations (d) A ed (d) reflected
(a) Energy but (d) none 21. Which of the form (a) mass of the above 22. An echo occur (a) absorbed 23. Which of the form (a) solid	no matter (b) made collowing does not afford (b) spring coove affect the period content as when a sound wave (b) transmitt following cannot transport (b) liquid	fect the period of the nstant (c) e is ed (c) refracted (s) nsmit sound (c) gas	mass-spring system emplitude of vibrations (d) A ed (d) reflected (d) vacuum
(a) Energy but (d) none 21. Which of the form (a) mass of the above 22. An echo occur (a) absorbed 23. Which of the form (a) solid	no matter (b) made collowing does not afford (b) spring coove affect the period content as when a sound wave (b) transmitt following cannot transport (b) liquid	fect the period of the nstant (c) e is ed (c) refracted (s) nsmit sound (c) gas	mass-spring system emplitude of vibrations (d) A ed (d) reflected (d) vacuum ture 10 cm is
(a) Energy but (d) none 21. Which of the form (a) mass of the above 22. An echo occur (a) absorbed 23. Which of the form (a) solid 24. The focal lenger	no matter (b) made collowing does not afford (b) spring coove affect the period content as when a sound wave (b) transmitt following cannot transport (b) liquid	fect the period of the nstant (c) e is ed (c) refracted similar to the control of the control	mass-spring system amplitude of vibrations (d) A ed (d) reflected (d) vacuum ture 10 cm is
(a) Energy but (d) none 21. Which of the form (a) mass of the above 22. An echo occur (a) absorbed 23. Which of the form (a) solid 24. The focal leng (a) +10 cm	no matter (b) mate collowing does not afford (b) spring cooke affect the period content was (b) transmitt following cannot transport (b) liquid gth of convex mirror (b) +5 cm	fect the period of the nstant (c) e is ed (c) refracted (c) gas with radius of curvat	mass-spring system emplitude of vibrations (d) A ed (d) reflected (d) vacuum ture 10 cm is (d) -5 cm
(a) Energy but (d) none (d) none (21. Which of the form (a) mass of the above (a) absorbed (a) absorbed (a) solid (b) 24. The focal leng (a) +10 cm (a) The human expenses the focal lenge (b) 10 cm (c) 25. The human expenses the focal lenge (c) 10 cm	no matter (b) mate collowing does not afford (b) spring coove affect the period (c) transmitt (b) transmitt (b) liquid (c) gth of convex mirror	fect the period of the nstant (c) e is ed (c) refracted (c) gas with radius of curvat	mass-spring system amplitude of vibrations (d) A ed (d) reflected (d) vacuum ture 10 cm is
(a) Energy but (d) none 21. Which of the fe (a) mass of the above 22. An echo occur (a) absorbed 23. Which of the fe (a) solid 24. The focal leng (a) +10 cm 25. The human exits (a) Iris 26. The value of	no matter (b) made collowing does not afford (b) spring cover affect the period results when a sound wave (b) transmitt following cannot transport (b) liquid gth of convex mirror (b) +5 cm (b) retina coulomb constant (K)	fect the period of the nstant (c) e is ed (c) refracte (c) gas with radius of curvat (e) 10 cm of an object at its (c) pupil	mass-spring system mass-spring system mass-spring system (d) replications (d) reflected (d) vacuum fure 10 cm is (d) -5 cm (d) cornea
(a) Energy but (d) none 21. Which of the fe (a) mass of the above 22. An echo occur (a) absorbed 23. Which of the fe (a) solid 24. The focal leng (a) +10 cm 25. The human exits (a) Iris 26. The value of	no matter (b) made collowing does not afford (b) spring cover affect the period results when a sound wave (b) transmitt following cannot transport (b) liquid gth of convex mirror (b) +5 cm (b) retina coulomb constant (K)	fect the period of the nstant (c) e is ed (c) refracte (c) gas with radius of curvat (e) 10 cm of an object at its (c) pupil	mass-spring system emplitude of vibrations (d) A ed (d) reflected (d) vacuum ture 10 cm is (d) -5 cm

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(a) Q, Q	(b) Q, 0	√6) Q		(d) $Q/2$, $-Q/2$	
28. The resistance of a	wire will decreas	se by increasin	g		
(a) temperature	(b) length	(c) diameter	(a ₂	both a & b	
29. Two resistance of	1Ω are connected	d in parallel, th	ne equivalent	resistance is	
(a) 2 Ω		(b) 1.5Ω	(c) 1 Ω	(d) 0	.5 Ω
30. Slip rings are a pa	rt of				(1)
(a) DC motor	(b) AC gener	rator	(c) transfe	ormer	(d)
magnet					
31. A step-up transfor	rmer increases				
(a) power	(b) energy	(c) v	oltage	(d) current	
32. The unit of induc	tance, Henry, is e	quivalent to			
(a) Ve/A	(b) VA/m	(c) A	As/V	(d) V/A	
33. If the magnetic fi	eld is applied par	allel to the dire	ection of elec	etron beam, the ele	ectron WIII
(a) Speed up	(b) slow do		deflect	(d) not char	nge its
state					
34. If the electric fie	ld is applied to th	e direction of	electron bear	n, the electron will	
(a) Speed up	(b) slow do	wn (c)	deflect	(d) not cha	nge its
state					
35. The Boolean equ	uation for NAND	gate is		. 15 77 6 17	 D
(a) X=AD	(b) $X=A+B$		X=AB	(d) X=A+1	
36. The phenomeno	n of total internal	reflection is u	sed in the tra	ansmission of sign	al through
(a) Electric wire		fiber	(c) elec	tromagnetic wave	s (d)
radio					
37. Telephone trans	smission is the ex	ample of trans	mission of si	gnals through	- VAT all
(a) Electric	wires (b) optical	fiber	(c) elec	tromagnetic wave	es (d) all
a, b & c					ad2
38. What type of n	ucleus decay leav	es the number	of protons a	nd neutrons unch	ingeu:
(a) Alpha deca	ay (b) Beta d	ecay (c	e) Gamma de	ecay (d) both a	1 & 0
39. Origin o energy					
(a) fission \	(b) fusion (c) carbon dating	g (d) rac	lioactivity	

40. If the distance between two charged particles is halved, the Coulomb force between	en me
two charge particles become	
(a) half (b) one quarter (c) double (d) four times	
41 A convex lens with focal length 8.00 cm has the power of the lens	
(a) 2.05 D (b) 4.00 D (c) 12.5 D (d) 16.0 D	
42. The loudness of a sound is most closely related to its	
(a) frequency (b) period (c) wavelength (d) amplitude	
43. If the pendulum completes exactly 12 cycles in 2.0 min, the frequency of the per	ndulum is
(a) 0.10 Hz (b) 0.17 Hz (c) 6.0 Hz (d) 10.0 Hz	
44. An object at Earth and taken to Moon should have (a) Same mass/more weight (b) tess mass/less weight (c) same ma	ss/same
weight (d) same mass/less weight	
45. The shortest distance between two couple forces is	
(a) moment arm \(\(\(\(\(\beta\)\) couple arm \((\chi\) radius \((\delta\) double moment	
46. The unit used for pressure in weather maps is	
(a) Atm (b) Pa (c) bar (d) Nm ⁻²	
47. If the string of the pendulum is shortened to half its original length, then the free	equency
will	
(a) Increase by a factor of $\sqrt{2}$ (b) decrease by a factor of $\sqrt{2}$	increase by
a factor of $\frac{1}{\sqrt{2}}$ (d) decrease by a factor of $\frac{1}{\sqrt{2}}$	
·	
48. Cytoscope is an instrument used to diagnose (c) stomach (d) bladder	
	by 100 V?
49. How much work must be done to increase the potential of a charge 2.5×10 ⁻⁷ C	·
(a) 1.5×10^{-3} (b) 2.5×10^{-5} (c) 3.5×10^{-6} (d) 4.5×10^{-7}	f the bulb is
50. A small flashlight bulb draws 300 mA from its 1.5 V battery, the resistance of Ω	
(a) 3Ω (b) 5Ω (c) 10Ω (d) 15Ω	



Name: Ouser Annad	Father name-	seex - Ikhan
1. Which of the following is the smallest pre (a) atto (b) pico	fix? (c) nano	(d) femto
2. A body in equilibrium must not be (a) at rest (b) moving	(c) rotating	(d) accelerating
3. The slope of distance-time graph represer (a) acceleration (b) change in accelerate at a constant (a) 0.9 m/s (b) 1.5 m/s	0.3 m/s ² for 3s, what is i (c) 1.95 m/s	(d) distance ts change in velocity? (d) 2.4 m/s
5. KITAB UL MANAZIR is the name of b (a) Yaqub Kindi (b) Ibnal Haitham 6. How many times the centripetal force w	(c) Al Berum	(d) None f a body moving with
unform speed in a circle is doubled? (b) three times	(c) four times	(d) six times
7. Which of the following forces can act a (a) tension (b) fraction	(c) gravitational 15	orce (d) all of these
8. Conventionally anti-clock wise torque (a) negative (b) positive	(c) paranei	(d) zero
9. The angle at which 'x' and 'y' comport (a) 0° (b) 30°	(c) 45°	(d) 60°
10. The S.I unit for gravitational constant (a) NKg ² (b) Nm ² Kg ⁻² 11. When a body is moved from sea level	(C) 1911 1254	(d) Nm ⁻² Kg ² n, there is change in the
hadu's	(c) both mass & weight	(d) none
potential energy gained by the object (a) 10 J (b) 20 J	(c) 50 J	(d) 490 J

13. Which material is mo	vre elastic			
	(b) rubber	(c) steel	(d) plastic	
(a) wood	,	"The safe of the s		
14. The S.I unit of strain		(c) Nm ⁻²	(d) none	
(a) Kgm ⁻³	(b) Pa			
15. Liquid and gases are		(c) Fluids	(d) None	
(a) Liquid	(b) Pascals	Capper P.	ches	
16. When water at 0°C	is heated, it contract	S (III temperature 11)	(d) 1000°C	
(a) 1°C	(b) 4°C	(c) 100°C		
(a) I°C 17. The amount of heat	required to raise the	e temperature of 1 kg	(d) 4190 J	
(a) 100 J	(b) 200 J	(c) 310 J	(a) 4170 3	
18. The transfer of hea	t by convection is sn	nallest in	(4) 3.1	
(a) Solids	(b) Liquids	(c) Gases	(d) None	
19. Which of the follow	wing has the highest	thermal conductivity	i	
(a) Wood	(b) water	(c) wool	(d) air	
20. A wave transports	·			
(a) Energy but no		er but no energy	(c) both energy & matter	
(d) none				
21. Which of the follow	wing does not affec	t the period of the ma	ass-spring system	
(a) mass	(b) spring cons	tant (c) am	plitude of vibrations (d)	All
• •	affect the period			
22. An echo occurs v		S		
(a) absorbed	(b) transmitted	(c) refracted	(d) reflected	
(a) absorbed (23. Which of the following				
1/	(b) liquid	(c) gas	(d) vacuum	
(a) solid	(b) iiquia	ith radius of curvatur	e 10 cm is	
¥	of convex minor w	(c) -10 cm	(d) -5 cm	
(a) $+10 \text{ cm}$	(b)+5 cm			
25. The human eye	forms the image of a	(c) pupil	(d) cornea	
(a) Iris	(b) retina		` '	
26. The value of co	ulomb constant (K)	depends on	on hetween charges	
(a) Value of ch	arges (b) material r	medium (c) separation	Olf Oorwoon Trans	
(d) all o	f these			

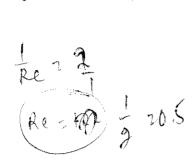
27. A capacitor 'C' has	charge 'O', the actual	charges on the	plates are	
(a) Q, Q	(b) Q, 0	(c) Q, -Q	(d) $Q/2$, -	Q/2
28. The resistance of a v		increasing		
(a) temperature	(b) length (c)	diameter	(d) both a & b	
29. Two resistance of 1	Ω are connected in p	arallel, the equiv	valent resistance is	
(a) 2Ω	(b)	1.5 Ω (c) 1	Ω	<u>t</u>) 0.5 Ω
30. Slip rings are a part	of			
(a) DC motor	(b) AC generator	(c) t	ransformer	(d)
magnet				
31. A step-up transform	ner increases	eter ¹¹¹ sterado.	(1)	and t
(a) power	(b) energy	(c) voltage	(d) curre	eni
32. The unit of inducta	nce, Henry, is equive	alent to	(4) 77/4	
(C) Mala	(b) VA/m	(c) As/V	(d) V/A	
33. If the magnetic fie	ld is applied parallel	to the direction of	of electron beam, th	e electron win
(a) Speed up	(b) slow down	(c) deflect	(d) not	change its
state			1 the electron	swill
34. If the electric field	l is applied to the dire	ection of electror	1 bean, the election	change its
(a) Speed up	(b) slow down	(c) deflect	(d) not	Change 160
state				
√ 35. The Boolean equa	ation for NAND gate	is	/ 1\ 37	A LD
/**	$(b) \mathbf{Y} = \mathbf{A} + \mathbf{B}$	(c) X=AE	(d) X=	
(a) X=AD 36. The phenomenon	of total internal refle	ection is used in	the transmission of	signal through
(a) Electric wires		(c	e) electromagnetic v	vaves (d)
radio	•			
37 Telephone transi	mission is the exampl	e of transmission	n of signals through	, n. u
(a) Electric v	wires (b) optical fiber	r (e) electromagnetic v	waves (d) all
a, b & c			and noutrons II	nchanged?
38. What type of nu	cleus decay leaves th	e number of pro	ons and neutrons a	oth a & b
(a) Alpha decay	y (b) Beta decay	(c) Gam	ma decay (d) bo	OMI W CO O
39. Origin o energy	from the Sun and Sta	ars is	(1) and in antivity	
(a) fission	b) fusion (c) car	bon dating	(d) radioactivity	

40. If the distance between	n two charged par	ticles is halved, the	Coulomb	force between the
two charge particles b			,e025,	
(a) half	(b) one quarter	(c) double	(d) four t	imes
41. A convex lens with fo	cal length 8.00 cm	n has the power of	the lens	
(a) 2.05 D	(b) 4.00 D	(c) 12.5 D	(6	d) 16.0 D
42. The loudness of a sou	nd is most closely	related to its	gr	.,,,,
(a) fraguency	(b) period	(c) wavelength	, m	d) amplitude
43. If the pendulum comp	oletes exactly 12 o	cycles in 2.0 min, th	ne frequenc	ey of the pendulum is
(a) 0.10 Hz	(b) 0.17 Hz	(c) 6.0 Hz	(d) 10.0 Hz
44. An object at Earth an	d taken to Moon	should have		
(a) Same mass/more	weight (b) less r	mass/less weight	((c) same mass/same
- Maria	me mass/less weig			
45. The shortest distance	between two cou	ple forces is		
(a) moment arm	(b) couple arm	(c) radius	(d) doul	ole moment
46. The unit used for pre	essure in weather	maps is		
(a) Atm (b) Pa	a (c) bar	$(d) Nm^{-2}$		
47. If the string of the p	endulum is shorte	ned to half its origi	nal length,	then the frequency
will				
(a) Increase by a fac	etor of $\sqrt{2}$	(b) decrease by a fa	actor of $\sqrt{2}$	(c) increase by
	(d) decrease by	a factor of $\frac{1}{\sqrt{2}}$		
48. Cytoscope is an ins	trument used to di	iagnose		
(a) blood (b) e	ves	(c) stomach (d)	bladder	7 100 110
49. How much work m	ust be done to inc	rease the potential	of a charge	$\approx 2.5 \times 10^{-7} \text{ C by } 100 \text{ V?}$
(a) 1.5×10^{-3} (b) 2	2.5×10^{-5} (c) 3.5	$\times 10^{-6}$ (d) 4.5×10^{-6}	• 1	
50, A small flashlight l	oulb draws 300 m	A from its 1.5 V ba	ittery, the r	resistance of the bulb is
(a) 3 Ω	(b) 5 Ω	(c) 10 Ω	(d) 15	Ω
• •				
	.			

(44) Q. MITTER

Del com		ie î	8
Name: Agad Ahmad		•	d Ullah Khan.
1. Which of the following	g is the smallest prefi	x?	
atto	(b) pico	(c) nano	(d) femto
2. A body in equilibrium	must not be		and anoting
(a) at rest	(b) moving	(c) rotating	accelerating
3. The slope of distance-	time graph represent	S	(1) dictorce
	(L) change in accele	ration	(d) distance
(a) accordance	lerate at a constant 0.	.3 m/s ² for 3s, what is in $\frac{1}{2}$	ts change in velocity?
0 9 m/s	(b) 1.5 m/s	(c) 1.95 m/s	(d) 2.4 m/s
5. KITAB UL MANAZ	IR is the name of boo	okwritten by	
	Throl Haitham	(c) Al Berum	(d) None
(a) Yaqub Kindi 6. How many times the	contrinctal force wil	l increase if the mass of	f a body moving with
6. How many times the	centripetar force		
unform speed in a ci	rcle is doubled?	(c) four times	(d) six times
two times	(b) three times		()
7 Which of the follow	ring forces can act as	centripetal force:	rce all of these
(a) tension	(b) fraction	(c) gravitational to	rce and these
8 Conventionally anti	-clock wise torque is	taken as	(1) ====
(a) negative	positive	(c) parallel	(d) zero
9. The angle at which	'x' and 'y' compone	ents of force are equal is	(d) 60°
(a) 0°	(b) 30°	45	(a) 00
10. The S.I unit for gra	avitational constant 'C	G' 1S	(d) $Nm^{-2}Kg^2$
	$Nm^2K\sigma^{-2}$	(c) Nill Ng2	
11. When a body is m	oved from sea level t	to the top of a mountain	, there is change in the
body's			(d) none
	weight (c) both mass & weight	• •
12 An object of mass	s 10 kg is lifted vertic	cally through a height o	f 5 m, the gravitational
12. All vojot of family	gained by the object i	S	//
	(b) 20 J	(c) 50 J	(490 J
(a) 10 J	(0) 20 0	•	

13. Which material is mo	ore elastic		(d) mlastic
(a) wood	(b) rubber	steel	(d) plastic
14. The S.I unit of strain	is	- 2	A none
(a) Kgm ⁻³	(b) Pa	(c) Nm ⁻²	none
15. Liquid and gases are	collectively categorize	ed as	(d) None
(a) Liquid	(b) Pascals	Fluids	
16. When water at 0°C i	is heated, it contracts ti	ll temperature rea	(d) 1000°C
(a) 1°C	∅ 4°C	(c) 100°C	
17. The amount of heat	required to raise the te	mperature of 1 kg	of water by 1 k is
(a) 100 J	(b) 200 J	(c) 310 J	4190 J
18. The transfer of heat	by convection is smal	lest in	(1) None
Solids	(b) Liquids	(c) Gases	(d) None
19. Which of the follow	wing has the highest the	ermal conductivity	/
(a) Wood	water	(c) wool	(d) air
20. A wave transports			() to the anaray & matter
Energy but no	matter (b) matter b	out no energy	(c) both energy & matter
(d) none			a avotem
21. Which of the follo	wing does not affect th	ne period of the ma	ass-spring system and think of vibrations (d) All
(a) mass	(b) spring constant	t 🌎 am	plitude of vibrations (d) All
of the above a	ffect the period		
22. An echo occurs w	hen a sound wave is		reflected
(a) absorbed	(b) transmitted	(c) refracted	reflected
23. Which of the following	owing cannot transmit	sound	A
(a) solid	(b) liquid	(c) gas	wacuum
24. The focal length	of convex mirror with	radius of curvature	e 10 cm is -5 cm
(a) $+10 \text{ cm}$	(b) $+5$ cm	(c) -10 cm	-3 Chi
25. The human eye f	the image of an o	hiect at its	
25. The number of v	orms the image of an e		(d) comes
(a) Iris	🍘 retina	(c) pupil	(d) cornea
(a) Iris	retina retina retina retina	(c) pupil ends on	
(a) Iris	🍘 retina	(c) pupil ends on	



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27. A capacitor 'C' has c	(b) Q, 0	@ Q		(d) $Q/2$,	·Q/2
28. The resistance of a w	ire will decrea	ase by increasing	ng		
(a) temperature	(b) length	(c) diameter		both a & b	
29. Two resistance of 1	Ω are connecte	ed in parallel, t	he equivalent	t resistance is	NS TO
(a) 2 Ω		(b) 1.5Ω	(c) 1Ω		0.5Ω
30. Slip rings are a part	of				(1)
	(b) AC gene	erator	(c) transfe	ormer	(d)
magnet					
31. A step-up transform	er increases			445	,
(a) power	(b) energy		voltage	(d) curre	ent
32. The unit of inductar	nce, Henry, is	equivalent to		/ 1\ T7/A	
Vs/A	(b) VA/m	` '	As/V	(d) V/A	
33. If the magnetic field	l is applied pa	rallel to the dir	ection of elec	etron beam, th	change its
(a) Speed up	(b) slow do	own (c)	deflect	not	change its
state			. 1	11 -la atmon	57/11
34. If the electric field			electron bear	i, the electron	change its
(a) Speed up	slow de	own (c)	deflect	(d) not	Ollarigo res
state					
35. The Boolean equat				(d) X=	:Δ+B
(a) X=AD	(b) $X=A+$	В	X=AB	•	
36. The phenomenon of			ised in the tra	ansmission or	vaves (d)
(a) Electric wires	Optica	l fiber	(c) elec	tromagnetic w	(4)
radio			· · · · · · · · · · · · · · · ·	anala through	
37. Telephone transm	ission is the ex	xample of trans	smission of si	tromagnetic v	vaves (d) al
Electric wi	ires (b) optica	ıl fiber	(c) elec	gromagnetic v	vaves (w)
a, b & c		. 1	-ftong 0	nd neutrons III	nchanged?
38. What type of nucl			OI prototis a	na neutrons a	oth a & b
(a) Alpha decay	(b) Beta from the Sun a fusion (•) Gamma de	cay (a) or	, (11 00 00 0

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40. If the distance between	en two charged pa	rticles is halved, the (Coulomb force between the
two charge particles			
(a) half	(b) one quarter	(c) double	four times
41. A convex lens with f		m has the power of th	ne lens
(a) 2.05 D	(b) 4.00 D	12.5 D	(d) 16.0 D
42. The loudness of a so	und is most closel	y related to its	*
(a) frequency	(b) period	(c) wavelength	-
43. If the pendulum com	pletes exactly 12	cycles in 2.0 min, the	e frequency of the pendulum is
(0.10 Hz	(b) 0.17 Hz	(c) 6.0 Hz	(d) 10.0 Hz
44. An object at Earth a	nd taken to Moon	should have	
(a) Same mass/more	e weight (b) less	mass/less weight	(c) same mass/same
	ame mass/less wei		
45. The shortest distance			
(a) moment arm	ouple arm		(d) double moment
46. The unit used for p	essure in weather	maps is	
(a) Atm (b) I	ea 🥻 bar	$(d) \text{ Nm}^{-2}$	
47. If the string of the	endulum is shorte	ened to half its origin	al length, then the frequency
will			
(a) Increase by a fa	actor of $\sqrt{2}$	(b) decrease by a fac	etor of $\sqrt{2}$ (c) increase by
a factor of $\frac{1}{\sqrt{2}}$	decrease b		
48. Cytoscope is an in	strument used to d	liagnose	
hlood (b)	eves	(c) stomach (d) b	ladder
49. How much work r	nust be done to in-	crease the potential of	f a charge 2.5×10 ⁻⁷ C by 100 V?
(a) 1.5×10 ⁻³	2.5×10^{-5} (c) 3.5	5×10^{-6} (d) 4.5×10^{-7}	
50. A small flashlight	bulb draws 300 m	A from its 1.5 V batt	tery, the resistance of the out of
(a) 3 Ω	δ 2	(c) 10 Ω	(d) 15 Ω
		i.	

$$a = 0.3 \, \text{m/s}^2$$
ot 2 35
 $a = \frac{\Delta v}{\delta t}$
 $|\delta v| = 0.9 \, \text{m/s}|$

$$R = 10 \text{ cm} \qquad \frac{1.5}{3 \times 10^3}$$

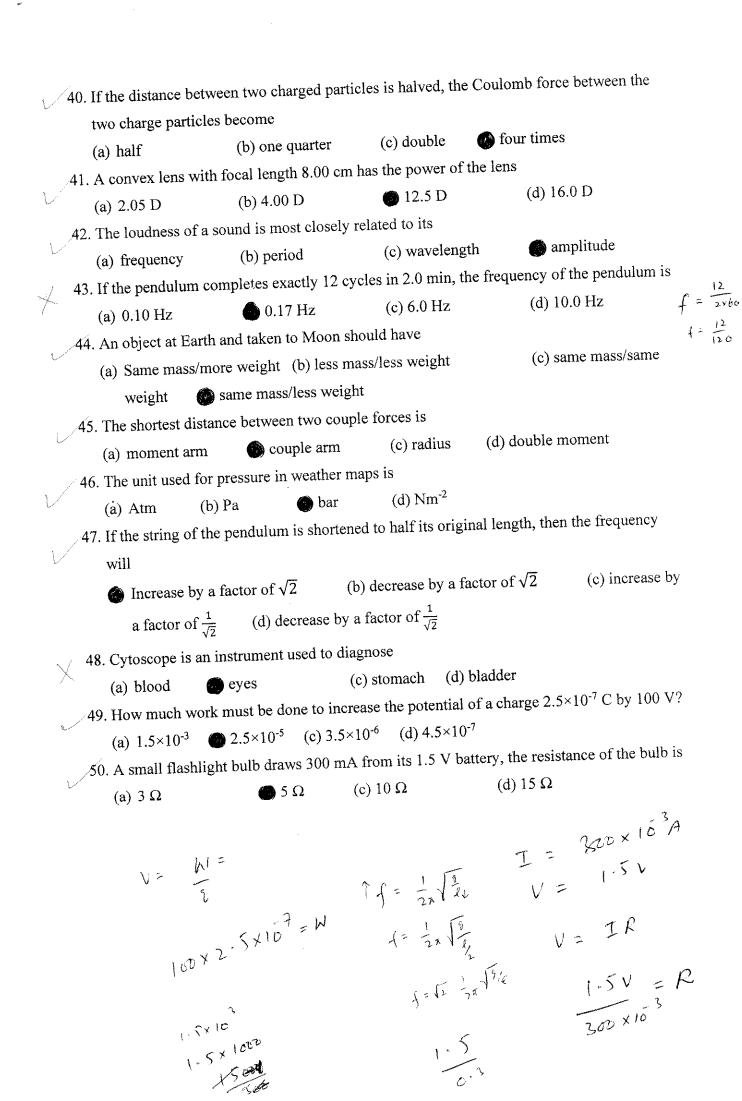
$$f = \frac{R}{3} = 5 \text{ cm}$$

Screening Test for	the post of Tra	ined Graduate 1	
Name: Sancia Class		Father name - 1300	<u>dallah</u>
1. Which of the following atto	ng is the smallest pref (b) pico		(d) femto
2. A body in equilibrium (a) at rest	(b) moving	(c) rotating	accelerating
4. A bike begins to acc	(1.) -leased in 90001	0.3 m/s 2 for 3s, what is it	(d) distance ts change in velocity? (d) 2.4 m/s
5. KITAB UL MANA	ZIR is the name of bo	ool written by	(d) None f a body moving with
unform speed in a c (a) two times 7. Which of the follow	(b) three times	four times s centripetal force:	(d) six times
(a) tension 8. Conventionally an	(b) fraction ti-clock wise torque i positive	s taken as (c) parallel	(d) zero
(a) 0°	(b) 30°	ents of force are equal is	(d) 60°
10. The S.I unit for g	$\sim Nm^2 K \sigma^2$	'G' is (c) Nm ² Kg2 to the top of a mountain	(d) Nm ⁻² Kg ² , there is change in the
body's (a) mass 12. An object of mass	weight ss 10 kg is lifted verti	(c) both mass & weight ically through a height o	(d) none
potential energy (a) 10 J	gained by the object (b) 20 J	(c) 50 J	4 90 J
	dunt	a = 0 1 = 3	0.3×35
	Fe = mizn	a=°t 4 mv²	0.3x35

13. Which material is mo		1	(d) plastic	
(a) wood	(b) rubber	steel	(u) pressiv	
14. The S.I unit of strain	is		none	
(a) Kgm ⁻³	(b) Pa	(c) Nm ⁻²	Hone	
15. Liquid and gases are	collectively categoriz	ed as	(1) Nana	
(a) Liquid	(b) Pascals	Fluids	(d) None	
16. When water at 0°C i	s heated, it contracts t	ill temperature rea	ches	
() 10C	△ 4°C	(c) 100°C	(u) 1000 C	
17. The amount of heat	required to raise the te	emperature of 1 kg	of water by 1 K 1S	
(a) 100 J	(b) 200 J	(e) 310 J	4 190 J	
18. The transfer of heat	by convection is small	llest in		
Solids	(b) Liquids	(c) Gases	(d) None	
19. Which of the follow	wing has the highest th	ermal conductivity		
(a) Wood	water	(c) wool	(d) air	
20. A wave transports				4
Energy but no	matter (b) matter	but no energy	(c) both energy & mat	ter
(d) none				
21. Which of the follo	wing does not affect the	he period of the ma	ass-spring system	7.15 A.11
(a) mass	(b) spring constan	at a m	plitude of vibrations	(d) All
of the above a	ffect the period			
22. An echo occurs w			- G . 4 - 3	
(a) absorbed	(b) transmitted	(c) refracted	reflected	
23. Which of the following	owing cannot transmit	sound		
(a) solid	(b) liquid	(c) gas	vacuum	
24. The focal length	of convex mirror with	radius of curvatur	e 10 cm is	
(a) +10 cm	(b) +5 cm	6 -10 cm	(d) -5 cm	
25. The human eye f	forms the image of an	object at its	4.10	
(a) Iris	retina 💮	(c) pupil	(d) cornea	
of The volue of con	ılomb constant (K) dej	pends on	.	
Earth Control of the			n between charges	
(a) Value of cha	arges material med	dium (c) separau	M Detween enarges	{= -

i . .

27. A capacitor 'C' has	charge 'Q', the	ectual charges	on the plates	are	
(a) Q, Q	(b) Q, 0	Q		(d) $Q/2$, $-Q/2$,
28. The resistance of a	wire will decreas	se by increasing	g		
(a) temperature	(b) length	(c) diameter		both a & b	
29. Two resistance of 1	Ω are connected	ł in parallel, tł	ne equivalent	resistance is	
(a) 2 Ω		(b) 1.5Ω	(c) 1 Ω	• 0	.5 Ω
30. Slip rings are a part	of				
(a) DC motor	AC gener	ator	(c) transformer		(d)
magnet					
31. A step-up transform	ner increases				
(a) power	(b) energy		oltage	(d) current	
32. The unit of inducta	ince, Henry, is e	quivalent to			
✓ Vs/A	(b) VA/m	(c) A	As/V	(d) V/A	
33. If the magnetic fie	ld is applied par	allel to the dire	ection of elect	tron beam, the ele	ectron will
(a) Speed up	(b) slow dov	vn (c)	deflect	not char	nge its
state					
34. If the electric field	is applied to the	e direction of	electron bean,	the electron will	Į.
(a) Speed up	slow do	wn (c)	deflect	(d) not cha	nge its
state					
35. The Boolean equa	tion for NAND	gate is	م انسيدهان ميرانس ي	- Charlest School Charlest Cha	•
(a) X=AD	(b) X=A+B	(c)	X=AB	X=A+1	
36. The phenomenon	of total internal	reflection is u	sed in the trai	nsmission of sign	al through
(a) Electric wires		fiber	(c) electr	romagnetic wave	s (d)
radio	•				
37. Telephone transn	nission is the exa	ample of trans	mission of sig	nals through	
	vires (b) optical		(c) elect	romagnetic wave	es 🕜 all
a b & c					
38. What type of nuc	cleus decay leav	es the number	of protons an	d neutrons uncha	inged?
(a) Alpha decay			Gamma dec	ay (d) both a	ı & b
/39. Origin o energy		d Stars is			
		carbon dating	g (d) radi	oactivity	
`,	-				



a = 0.3 m/s²
L=

.

Scieening reserve		
Name: Ata Man	Father name	in. laz khan
1. Which of the following is the smallest part (a) atto (b) pico	prefix? (c) nano	(d) femto
2. A body in equilibrium must not be (a) at rest (b) moving	(c) rotating	(d) accelerating
3. The slope of distance-time graph repre- (a) acceleration (b) change in ac	cceleration (c) speed	(d) distance
4. A bike begins to accelerate at a consta	(c) 1.95 m/s	(a) 2.4 mis (120)
5. KITAB UL MANAZIR is the name of (a) Yaqub Kindi (b) Ibnal Haith	nam (c) Al Beruin	(d) None $q = \frac{0.00}{0.1}$
(a) Yaqub Kindi (b) Ibhar Hardi 6. How many times the centripetal force unform speed in a circle is doubled? (a) two times (b) three times		(d) six times
7. Which of the following forces can act (a) tension (b) fraction	ct as centripetal force: (c) gravitational	force (d) all of these
8. Conventionally anti-clock wise torq	(c) parallel	(d) zero
9. The angle at which 'x' and 'y' comp (a) 0° (b) 30°	(c) 43	(d) 60°
10. The S.I unit for gravitational constants (a) NKg ² (b) Nm ² Kg ⁻²	(0) 1 (220 - 0	(d) Nm ⁻² Kg ²
(a) NKg ² (b) Will Kg 11. When a body is moved from sea le	evel to the top of a mounta	in, there is change in and
body's (a) mass (b) weight 12. An object of mass 10 kg is lifted v	(c) both mass & weigh	t (d) none
potential energy gained by the obj (a) 10 J (b) 20 J	(c) 50 J	(d) 490 J
hzsm $F = G \frac{m_1 m_2}{5^2}$ $= 10 \times 5 \times 10 \qquad G = \frac{F \times 2}{m_1 m_2}$ $= 10 \times 5 \times 10 \qquad G = \frac{F \times 2}{m_1 m_2}$	Form 2	$= m(2v)^{2}$ $= u(mv^{2})$

13. Which material is a	more elastic			
(a) wood	(b) rubber	(c) steel	(d) plastic	
14. The S.I unit of stra	in is	1		F/L=N/na
(a) Kgm ⁻³	(b) Pa	(c) Nm ⁻²	(d) none	
15. Liquid and gases a	re collectively categorize	zed as		
(a) Liquid	(b) Pascals	(c) Fluids	(d) None	
16. When water at 0°C	is heated, it contracts	till temperature re	eaches	
(a) 1°C	(b) 4°C	(c) 100°C	(a) 1000°C	
17. The amount of he	at required to raise the t	emperature of 1 k	cg of water by 1 k 1s	
(a) 100 J	(b) 200 J	(c) 310 J	(d) 4190 J	
18. The transfer of he	eat by convection is sma	llest in		
(a) Solids	(b) Liquids	(c) Gases	(d) None	
19. Which of the foll	owing has the highest th	nermal conductiv	ity	
(a) Wood	(b) water	(c) wool	(d) air	
20. A wave transpor (a) Energy but n		but no energy	(c) both energy & m	atter
(d) none	lowing does not affect t	he period of the r	nass-spring system	
	(b) spring constar		mplitude of vibrations	(d) All
(a) mass	affect the period			T= 2ATm
	when a sound wave is			1 - ke
(a) absorbed	(b) transmitted	(c) refracted	d (d) reflected	į.
	llowing cannot transmit	sound		
(a) solid	(b) liquid	(c) gas	(d) vacuum	
(a) solid	h of convex mirror with	radius of curyatt	are 10 cm is	
(a) $+10 \text{ cm}$	(b) +5 cm	(e) -10 cm	(d) -5 cm	
	forms the image of an	object at its		
(a) Iris	(b) retina	(c) pupil	(d) cornea	
26. The value of C	oulomb constant (K) de	pends on		
(a) Value of c	narges (b) material med	dium (c) separat	tion between charges	
	of these			
(-)				

27. A capacitor 'C' has c	harge 'Q', the	actual cha	rges on the j	plates are		
(a) Q, Q	(b) Q, 0	((c) Q, -Q	(d)	Q/2, -Q/2	
28. The resistance of a w	ire will decrea	se by incre	easing			K=86
(a) temperature	(b) length	(c) dian	neter	(d) both a		$j\Delta$
29. Two resistance of 1 s	Ω are connecte	d in parall	lel, the equiv	alent resista	nce is	2.
(a) 2 Ω		(b) 1.5 s		Ω	(d) 0.5	Ω
30. Slip rings are a part	of					
(a) DC motor	(b) AC gener	rator	(c) tr	ransformer	B.P.	(d) U
magnet					R. 4)2	Ly Sur, Jak
31. A step-up transform	er increases					Reshold
(a) power	(b) energy		(c) voltage	(6	l) current	= 1.1
32. The unit of inductar	nce, Henry, is e	quivalent	to			
(a)VIs/A	(b) VA/m		(c) As/V		d) V/A	• • • • • • • • • • • • • • • • • • • •
33. If the magnetic field	l is applied par	allel to th	e direction o	f electron be	am, the elect	ron Will
(a) Speed up	(b) slow do		(c) deflect	(d) not change	e its
state						
34. If the electric field	is applied to th	e direction	n of electron	bean, the ele	ectron will	' 4
(a) Speed up	(b) slow do	wn	(c) deflect	(d) not chang	e its
state						
35. The Boolean equat	ion for NAND	gate is	~/			
(a) X=AD	(b) X=A+H	3	(c) $X = AB$		(d) X=A+B	.1
36. The phenomenon	of total internal	reflection	n is used in t	he transmiss	ion of signal	through
(a) Electric wires	(b) optical	fiber	(c)	electromagi	netic waves	(d)
radio	•					
37. Telephone transm	ission is the ex	ample of	transmission	of signals th	rough	(4) -11
(a) Electric wi	res (b) optical	fiber	(c)) electromag	netic waves	(d) all
, a, b & c					1	- 40
38. What type of nucl	leus decay leav	es the nur	nber of prot	ons and neut	rons unchang	geu (. h
(a) Alpha decay	(b) Beta d	lecay	(c) Gamr	na decay	(d) both a &	, υ
39. Origin o energy f	rom the Sun ar	nd Stars is			•	
(a) fission (b)	fusion (c) carbon d	lating (d) radioactivi	ity	
ar a						

40. If the distance between two cl	narged particles is	s halved, the Co	ulomb force between the	;
two charge particles become				
(a) half (b) one	1	()	four times	
41. A convex lens with focal leng	gth 8.00 cm has th	ne power of the	lens	
(a) 2.05 D (b) 4.0	0 D (c	c) 12.5 D	(d) 16.0 D	
42. The loudness of a sound is m	ost closely related	d to its		
(a) frequency (b) per	riod (e	c) wavelength	(d) amplitude	,
43. If the pendulum completes ex	cactly 12 cycles i	n 2.0 min, the fr	equency of the pendulur	n is
(a) $0.10 \mathrm{Hz}$ (b) 0.1	7 Hz	e) 6.0 Hz	(d) 10.0 Hz	7= F26
44. An object at Earth and taken	to Moon should	have	,	7
(a) Same mass/more weight	(b) less mass/les	ss weight	(c) same mass/sam	ie
weight (d) same mas				
45. The shortest distance between	n two couple for	ces is		
(a) moment arm (b) co	ouple arm	(c) radius (d) double moment	
46. The unit used for pressure in	weather maps is	3		
(a) Atm (b) Pa		(d) Nm ⁻²		
47. If the string of the pendulur	n is shortened to l	half its original	length, then the frequenc	У
will				
(a) Increase by a factor of		rease by a factor	$r ext{ of } \sqrt{2}$ (c) increase	se by
a factor of $\frac{1}{\sqrt{2}}$ (d) d	ecrease by a facto			
48. Cytoscope is an instrument	used to diagnose			
(a) blood (b) eyes	(e) sto	mach (d) blad		0.310
49. How much work must be d	one to increase th	ne potential of a	charge 2.5×10 ⁻⁷ C by 10	0 V ?
0.5×10^{-3} (b) 2.5×10^{-5}	(c) 3.5×10^{-6}	(d) 4.5×10^{-7}		
50. A small flashlight bulb dra	ws 300 mA from	its 1.5 V batter	y, the resistance of the of	110 15
(a) 3 24	5 Ω (c) 10	Ω	(d) 15 Ω	-5>16
7:35 × = 300×16 7 .2/2		Q	,	The of
02 7 2 1 2 0 12		Will	, Ce	1/4
9 = 1 = =	= K 918	L	オーネルトラ	N. B. y
3, 3, 1 7	72		(1/2	Ris
	2 - 1/ 9	12	5K 1 5	,5
	- K	7 12	三层信	
7/10	$\sim 5 \text{Å}$	(12)	0 (
27/0 25/10/00	40x1-= 1/	8182	- 4/1/ ha	۲) - ۳ <i>۲</i>
25710 27 x10 (5) July	12,17	¥ 2		/
V	V			

The table of the second of the

(13) J. M.M.

Screening rest for	raze I.		. = 1
Name: Hina Jaybo			nammad I9 k
1 Which of the following	g is the smallest prefix (b) pico	c? (c) nano	(d) femto
2. A body in equilibrium	(b) moving	(c) rotating	(d) accelerating
3. The slope of distance		ration (c) speed 3 m/s ² for 3s, what is i (c) 1.95 m/s	(d) distance ts change in velocity?
$\langle (a) 0 0 m/s \rangle$	(0) 1.5 Hrs	` '	(d) 2.4 m/s
5. KITAB UL MANAZ (a) Yaqub Kindi 6. How many times the	. / Ti - Illoutham	(C) Al Deruis	(d) None f a body moving with
unform speed in a c	ircle is doubled? (b) three times	(c) four times	(d) six times
Which of the follow	wing forces can act as (b) fraction	(c) gravitations.	orce (d) all of these
8. Conventionally and	(b) nositive	(c) paramer	(d) zero
9. The angle at which	(b) 30°	(6) 15	
. /	ravitational constant '((b) Nm ² Kg ⁻² noved from sea level t	(C) NIII 1282	(d) Nm ⁻² Kg ² n, there is change in the
12. An object of mas	ss 10 kg is lifted vertice	e) both mass & weight ally through a height o	(d) none of 5 m, the gravitational
potential energy	gained by the object 1 (b) 20 J	s (c) 50 J	(d) 490 J
(a) 103 "" Sm" Q.62**	10 KBX 10 KB	6: my ass 4.5	3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	K		· -1

13. Which material is 1		(a) atool	(d) plastic	
(a) wood	(b) rubber	(c) steel	(-) [
14. The S.I unit of stra	in is	(c) Nm ⁻²	(d) none	
(a) Kgm ⁻³	(b) Pa	\ /	(u) none	
15. Liquid and gases a	are collectively categori	zed as	(d) None	
(a) Liquid	(b) Pascals	(c) Fluids	, ,	
16. When water at 0°	C is heated, it contracts	till temperature read	(d) 1000°C	
(-) 19C	(b) 4°C	(c) 100°C	(d) 1000 T	
17. The amount of he	eat required to raise the	temperature of 1 kg	of water by 1 k is	
(a) 100 J	(b) 200 J	(c) 310 J	(d) 4190 J	
18. The transfer of h	eat by convection is small	allest in		
(a) Solids	(b) Liquids	(c) Gases	(d) None	
19. Which of the fol	lowing has the highest t	hermal conductivity	y	
(a) Wood	(b) water	(c) wool	(d) air	
20. A wave transpor	ts		0	4
(a) Energy but r		but no energy	(c) both energy & mat	ter
(d) none				
21 Which of the fo	llowing does not affect	the period of the ma	ass-spring system	(1) A !!
(a) mass	(b) spring consta	ent (c) am	aplitude of vibrations	(d) All
of the oboye	e affect the period			
22. An echo occurs	when a sound wave is			
(a) absorbed	(b) transmitted	(c) refracted	(d) reflected	
23 Which of the fe	ollowing cannot transm	it sound		
(a) solid	(b) liquid	(c) gas	(d) vacuum	
24 The focal leng	th of convex mirror with	h radius of curvatur	e 10 cm is	FN
(a) $+10 \text{ cm}$	(b) + 5 cm	(c) -10 cm	(d) -5 cm	N~
25. The human ey	e forms the image of an	object at its	~	العم
(a) Iris	(b) retina	(c) pupil	(d) cornea	mz 1 ko 1 k
26. The value of 6	coulomb constant (K) de	epends on		1 Kocal
(a) Value of (charges (b) material me	edium (c) separation	on between charges	
	of these			
		10 cm		
		£12		
		(. c = \	K-1-4-	
		1. 6 =		

e energy energy

2		. (O) the s	otual charge	s on the plates	are	
27.	A capacitor 'C' has (a) Q, Q	charge Q' , the e	(c)	Q, -Q	(d) $Q/2$, $-Q/2$	
	. The resistance of a v		se by increasi	ng		
28		(b) length	(c) diamete	r (d)	both a & b	
•	(a) temperature One Two resistance of 1	O are connected	l in parallel,	the equivalent	resistance is	
× 29	(a) 2Ω	12 are connected	(b) 1.5 Ω	(c) 1 Ω	(d) 0.5	Ω
. 30). Slip rings are a part	of				<i>(</i> 1)
X	(a) DC motor	(b) AC gener	rator	(c) transfe	ormer	(d)
	magnet	or increases				
3	 A step-up transform power 	(b) energy	(c)	voltage	(d) current	
/3	2. The unit of inducta	nce, Henry, is e	quivalent to			
	Val Nal A	(b) VA/m	(c)) As/V	(d) V/A	
	33. If the magnetic field	d is applied par	allel to the di	irection of elec	ctron beam, the elec	ctron will
*	(a) Speed up	(b) slow dov	wn (c) deflect	(d) not chang	ge its
	state					
· / :	34. If the electric field	is applied to the	e direction of	f electron bean	the electron win	ita
7	(a) Speed up	(b) slow do	wn (c	e) deflect	(d) not chan	ge its
	state	-				
	35. The Boolean equa	tion for NAND	gate is	✓ <u> </u>	(1) V-A+B	
	(a) X=AD	(b) $X=A+B$	3 (c) X=AB	(d) $X = \overline{A} + B$	1 thuangh
***	36. The phenomenon	of total internal	reflection is	used in the tra	insmission of signa	ii tiirougii
	(a) Electric wires		fiber	(c) elec	tromagnetic waves	(d)
	radio		1 £ +max	ramission of si	onals through	
7	37. Telephone transn	hission is the ex	ampie oi uai		tromagnetic waves	s (d) all
*	(a) Electric v	rires (b) optical	fiber	(6) 6160	Montagnesso (137)	
	a, b & c			C	I mantrone unchat	nged?
7	38. What type of nuc	cleus decay leav	es the number	er of protons a	na neurons unona	er h
	(a) Alpha decay		•	(c) Gamma de	cay (d) both a	λ
= +40.11	39. Origin o energy	from the Sun ar	d Stars is			2 3
	· ·	o) fusion (c) carbon dati	ng (d) rad	lioactivity	c = Q
	, ,				,	2
_	(x	52	\	12 18	m 3	
	- LAG	2 4	7 1	w	~ }	VL
>/	- K.B.	٧.	L			~~~
	Nº At	1200	7		(

	40. If the distance betw	een two charged partic	cles is halved, the	e Coulomb force between the
	two charge particles	s become		
	(a) half	(b) one quarter	(c) double	(d) four times
	41. A convex lens with	focal length 8.00 cm	has the power of	the lens
	(a) 2.05 D	(b) 4.00 D	(0) 12.3	(d) 16.0 D
	42. The loudness of a s	sound is most closely i	related to its	
	V/ > C	(h) period	(C) wavelers	gth (d) amplitude
	43. If the pendulum co	ompletes exactly 12 cy	cles in 2.0 min, t	he frequency of the pendulum is
	(a) 0.10 Hz	(b) 0.17 Hz	(c) 6.0 HZ	(d) 10.0 Hz
	44 An object at Earth	and taken to Moon shore weight (b) less ma	ould have ass/less weight	(c) same mass/same
12.7	(a) Same mass/m	same mass/less weigh	nt	
27	45. The shortest dista	nce between two coup	le forces is	
30	45. The shortest dista	(b) couple arm	(c) radius	(d) double moment
20/120	(a) moment arm	pressure in weather m	aps is	
.v.~.	40. The time used for	Pa (c) bar	(d) Nm ⁻²	
7	(a) Same mass/mo weight (d) 45. The shortest dista (a) moment arm 46. The unit used for (a) Atm (b) 47. If the string of the will (a) Increase by a a factor of $\frac{1}{\sqrt{2}}$	e pendulum is shorten	ed to half its orig	inal length, then the frequency
K	will	•		
	(a) Increase by a	factor of $\sqrt{2}$	o) decrease by a	factor of $\sqrt{2}$ (c) increase by
	(a) moreover of $\frac{1}{2}$	(d) decrease by	a factor of $\frac{1}{\sqrt{2}}$	
	a factor of $\sqrt{2}$:ant used to dia	onose	
		instrument used to dia	c) stomach (d)) bladder
	(a) blood (l	b) eyes (ease the potential	of a charge 2.5×10 ⁻⁷ C by 100 V?
	49. How much work	b) 2.5×10^{-5} (c) $3.5 \times$	10^{-6} (d) 4.5×10^{-6}	0 ⁻⁷
	(a) 1.5×10° (b) 2.3×10 (c) 3.0	from its 1.5 V b	pattery, the resistance of the bulb is
		(b) 5 Ω	(c) 10 Ω	(d) 15 Ω
	(a) 3 Ω	(0) 3 22	· ·	_
	+p0		2	300
37	tho, 0	942	101 + R=	1.15 a= 0.3 mls
82 3.	2,360	215	- مر <i>ک</i> ر	013 x 10 52
	<i>^</i> ₽' \	(2.)	(0)	0:103 3 V2 5 3 360X5
a a	121	(grander)	fc = mor)3\10° 3,
1670	40/95		7	E 300 10 15 30.50
~~	V, ° /°	1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T	52.00	S SS S
516	1/2° (12°	V 4/*		2. 30/40 1/6 1/5
20/2	· ~ ·	300	90	الميمير ،
45	7/2	5		•