RAILWAY RECRUITMENT BOARD

(ALLAHABAD) ASSISTANT LOCO PILOT (PREVIOUS PAPER 2010) **BASED ON MEMORY**

Time: 2 1	Max.Marks: 50
2	Wida.Widi RS. 50

Directions (1 - 8): In each of the following sentences, four words have been printed in BOLD which are numbered as 1, 2, 3 and 4. One of these words may be mis-spelt or inappropriate in the context of the sentence. Find out the wrongly-spelt or inappropriate word. The number of that word is the answer. If all the words are correctly spelt and are appropriate, the answer is (4) i.e. All correct.

- Napoleon is universally (1) / acknowledged/(2)/ to have been one of the great (3)/ 1. of generals. All correct. (4)
- He have (1)/ risen to eminence (2)/ from poverty (3)/ and abscurity. All correct (4). 2.
- The king allowed (1)/ no cows to be slaughtered (2)/ in his territory (3)/ All **3.** correct. (4).
- 4. She is anxious (1)/ to releave (2) them of their sufferings (3)/ All correct (4)
- 5. His finished (1)/ manners (2)/ produced a very favourable impression (3). All correct. (4).
- Education is the best (1)/ pressing(2)/ need of our (3)/ country. All correct (4) **6.**
- **7**. The policemens (1)/ running with all is speed, was scarcely (2)/ able to overtake
- 4).

- •	The pontennens (1), 1 milling (1 mil 10	special,	(=), were to <u>system</u>		
	(3)/ the thief. All correct (4).					
8.	Enchanted (1)/ with	the whole $\underline{\text{seen}}$ (2)/ I	lingered on my voyag	ge. (3) All correct (
Dir	ections (9-13): Fill	in the blanks with the	e appropriate word. C	Choosing it from th		
	optio	ons given.				
9.	I found it difficult	to cope- Mathematic	es at the advanced lev	vel.		
	1) wit	2) of	3) for	4) up		
10.	It is natural in ever	ry man to wish dis	stinction			
	1) of	2) with	3) for	4) up		
11.	The goat subsists the coarsest of food					
	1) on	2) for	3) in	4) to		

12.	It was formerly supposed that malaria was due poisonous exhalations.								
	1) of 2) with 3) for 4) to								
13.	The celebrated grammarian Patanjali was a contemporary Pushyamitra Sunga.								
	1) for 2) with 3) of 4) to								
Dir	ections (14-16): Critically examine the statement given in bold and answer the								
	questions.								
14.	Un easy lies that the head that wears the crown.								
	What does this mean?								
	1) The crown worn by the king does not mean that he is a happy man.								
	2) The king wears a crown of gold and gems but his responsibilities make him restless and unhappy.								
	3) People who are rich and powerful are generally restless and worried.								
	4) Those who are in high positions and wealthy are mostly restless because of their responsibilities like kings.								
15.	The circumstances of birth are irrelevant. What you do with gift of life deter-								
	mines what you are.								
	Which statement best explains this?								
	1) One may be born rich or poor. But how he lives speaks of his real self.								
	2) Misfortunes come even if we are born rich. But success in life depends on our								
	own efforts to live a good life.								
	3) Birth alone does not contribute to success in life. Life is precious and is a free gift of God. We should make it worth living.								
	4) Great qualities are given by God as gifts. We should make good use of them								
	to achieve success in life.								
16.	Your mind is like a parachute: It works when it is open.								
	What does the statement imply?								
	1) Parachutes are meant for saving lives and you have to open them to do that.								
	2) Open- mindedness is what is essential. We should share with others our joys,								
	sorrows, fears and hopes to make life meaningful.								
	3) We should never close our minds to others. When we share, we become hap-								
	pier and contented.								
	4) Our minds are like parachutes, closed. We must open them to share happiness.								

Directions (17-20): Replace the bold portion by choosing the phrase from the given alternatives that best keeps the meaning of the original sentence.

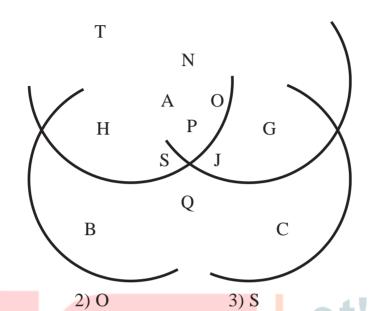
- 17. The researcher has to mull over his idea for several days.
 - 1) To organise his idea for a number of days.
 - 2) To remember his ideas for several days.
 - 3) to scrutinise his ideas for many days.
 - 4) to ponder over his ideas for several days.
- 18. The function would have been enjoyable. *If all extraneous activities has been dropped from the programme*.
 - 1) If all the irrelevant activities had been dropped from the programme.
 - 2) If all the excessive activities had been dropped from the programme.
 - 3) If all over extended activities had been dropped from the programme.
 - 4) If the exceptional activities had been dropped from the programme.
- 19. The professor wants him to improve the coherence of his term paper.
 - 1) to increase the distinctiveness of his term paper
 - 2) to improve the consistency of his term paper
 - 3) to improve the rationality of his term paper
 - 4) to enhance the quality of his term paper
- 20. Researches warn of the *impending extinction* of many species of plants and animals.
 - 1) imminent extinction of many species of plants and animals.
 - 2) irrefutable extinction of several species of plants and animals.
 - 3) absolute extinction of species of plants and animals.
 - 4. formidable extinctions of many species of plants and animals.

Directions (21-24): Each of these questions has a sentence that has been scrambled and the scrambled parts have been marked A, B, C, D and E. Find the correct of the parts to reconstruct the sentence.

- **21.** A. in different regions of that federation.
 - B. that was Yugoslavia
 - C. the fundamental cause has been the very large difference in the quality of life.
 - D. although the dismemberment of the federation.
 - E. is seen more as the result of an ethnic conflict.
 - 1) D, B, E, C, A. 2) C, E, B, D, A 3) B, C, E, D, A 4) A, B, D, E, C

22.	A. but there is som	ne merit in it			
	B. as distinct from	consumption			
C. the bifurcation of plan and non-plan funds					
	D. insofar as it foc	uses attention on dev	velopment expenses.		
	E. in the budget is	artificial			
	1) D, C, A, B, E		2) C, D, B, E, A		
	3) C, E, A, B, D		4) D, E, A, C, B		
23.	A. Like the industr	rialised countries			
	B. As if they are to	be suffered as relics	s of a backward past.		
	C. We have special	lly drawn attention to	the nonmotorised tr	ansport modes	
	D. Till replaced by	faster petroleum fue	elled transport.		
	1) D, E, A, C, B		2) C, D, E, B, A		
	3) C, D, A, D, E		4) C, D, B, E, A		
24.	A. he was highly s	ensitive and resentfu			
	B. towards the cou	intry or to those	Let's	5	
	C. when there was	even implied discou	irtesy 5 4110	1v	
	D. while he was ex	ktremely gentle and	tolerant	1 y	
	E. he held in hono	ur	Toge	ether	
	1) A, C, D, B, E	_	2) D, A, C, B, E		
	3) E, A, D, C, B	<i>ı.</i> letsstu	4) D, C, B, E, A	1er.co	
Dire			ct the alternative which		
the f	four given words.				
25.	Man, Arm, Preside	e, Person			
	1) woman	2) chair	3) leader	4) dominate	
26.	Pigeon, revolution	, cage, Leader			
	1) violence	2) captivity	3) coup	4) follower	
27.	Arrange the follow	ing in a meaningful	order.		
	A. Rain	B. Monsoon	C. Rescue		
	D. Floods	E. Shelter	F. Relief		
	1) ABDECF	2) ABCDEF	3) BADCEF	4) DABCFE	
	,	,	,	,	

28. During an interview, there were drivers who knew how to drive cars, some buses and some only tempo vans. The company auth_Vority wished to select persons who knew how to drive all the vehicles. How can they select using the letters used in the Venn Diagram?



29. In this question, a statement is given followed by four alternative interferences. Select the one which is the most appropriate.

Statement:

1) P

Many creative persons become artists

Inferences:

- 1) Some artists are creative persons
- 2) A high level of creativity is needed to become an artist
- 3) It is not possible to become an artist without creativity.
- 4) A creative person will certainly become an artist

30. If '+' means 'division'. – means 'multiplication, '×' means minus # means 'addition' then(75 × 25) 2 +50 – 10 = ?

- 1) 16.67
- 2) 12
- 3) 977.5
- 4) 20

4) N

Directions (31-32): Read the following information to answer these questions.

 $^{\prime}P-Q^{\prime}$ means $^{\prime}Q^{\prime}$ is daughter of P

 $'P \times Q'$ means 'P' is mother of 'Q'

'P+Q' means 'P' is father of 'Q'

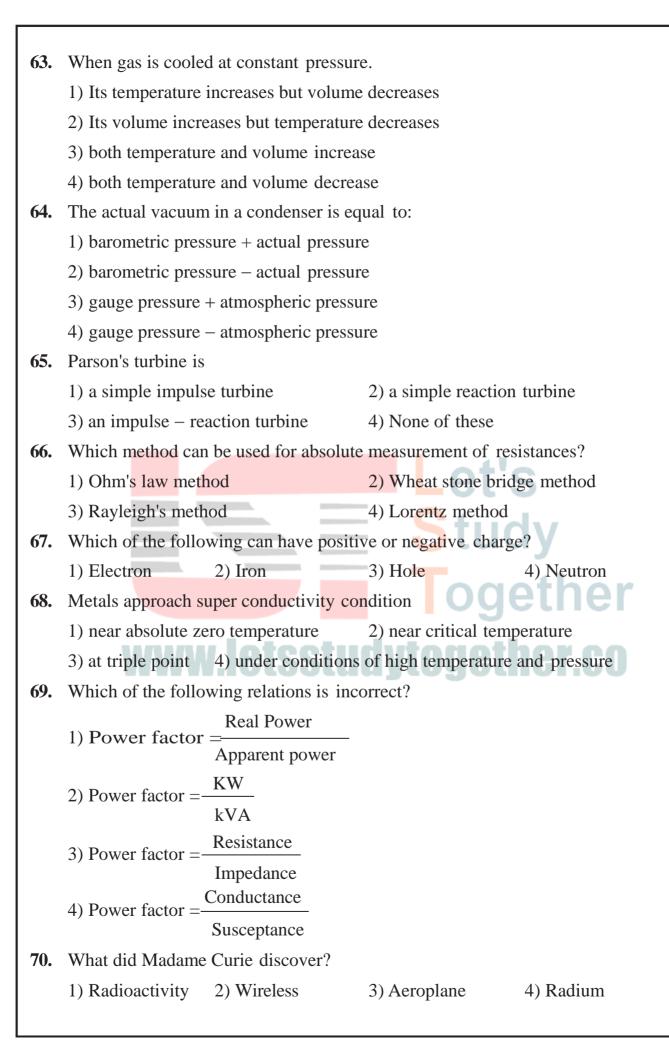
31. Which of the following would definitely indicate that C is daughter of B?

- 1) $A B \times C$
- 2) $B + C \times A$
- 3) B + C
- 4) None of these

32.	If $S \times M + N - T$, then which of the following is not true?								
	1) T is wife of M		2)	2) S is grandmother of N					
	3) T is mother-in-law of T			4)	N is gra	andson of	S		
33.	There	are dee	rs and p	eacocks in a	zoo. By	countin	g heads th	ney are 80.	. The
	numbe	er of the	eir legs i	s 200. How n	nany pe	acocks a	re there?		
	1) 60		2)	20	3)	50		4) 30	
34.	anothe	er 10 kn	n and tui	ing north, Shens right and Thich direction	walks 5	km and	finally tu		
	1) Eas	t	2)	West	3)	North		4) South	
35.	Find o	ut the n	nissing 1	number on the	e basis o	of a parti	icular trer	nd.	
	8	17	33						
	12	5	29						
	10	13	?						
	1) 23		2)	33	3)	9	_41	4) 43	
36.	If in a	certain	code M	ISTAKE is w	ritten as	3 43 <mark>5</mark> 612	27. How w	vould STE	EAM be
	writter	n in that	t code				4	4.7	
	1) 507			57614	,	56741		4) 56714	
37.	-		•	ses 12 ballooi	ns for R	s.10 and	sells the	m at 10 ba	lloons for
				profit for:	2)	5504	oge	etn	er
20	1) 35%			36%		75%		4) 50%	
38.		radius o sed by	of a circl	e is increased	l by 50%	b, then t	he area of	the circle	2 18
	1) 125	%	2)	100%	3)	75%		4) 50%	
39.				a work in 16 e days. The to					ng with A,
	1) 12	days	2)	13 days	3)	$13\frac{5}{7}$	days	4) $13\frac{3}{4}$	days
40.			-	68 gives the 67, the remai	_	t 269 and	d remaind	ler zero. If	the same
	1) 0		2)		3)	2		4) 3	
41.	(-2)	² is eq	ual to						
	$1)\frac{1}{\sqrt{2}}$	- -	2)	$\sqrt{2}$	3)	$2\sqrt{2}$		$4) \frac{1}{2\sqrt{2}}$	

42.	perimeter as 20	cm, then the area of	the rectangle will be	•
	1) 24 cm^2	2) 48 cm^2	3) 72cm^2	4) 96 cm 2
43.		types of lunch, If 96		on-vegetarian lunch and and the state of the
	1) 20	2) 24	3) 26	4) 28
44.	The area of th	e largest circle, that	can be drawn inside	e a rectangle with sides
	18cm by14 cm	•		
	1) 49cm ²	2) 154cm^2	3) 378cm	4) 1078cm ²
45.	If the sides of	a triangle are 5 cm, 4	cm and $\sqrt{41}$ cm, the	en the area then he take
	the area of trian	ngle is		
	1) 20cm ²		2) $(5+4+\sqrt{41})$)cm ²
	3) $\frac{5+4+\sqrt{41}}{3}$	$- \text{cm}^{2/3}$	4) 10 cm ²	
46.	$(8 \# 88) \times 888$	8088 is equal to		
	1) 808008	2) 808088	3) 808080	4) 8008008
47.				
	1) 2:12:5	and B: C = 4:5, the 2) 8:12:15	3) 12:8:15	4) 15:12:8
48.				ce 3 O' clock and so, on.
		es will it strikes in 24		gether
	1) 78	2) 136	3) 156	4) 196
49.	In India, the Cl	nief Justice of a High		y the
	1) Chief Minis	ter of the concerned s	state	
	2) Governor of	the concerned State		
	3) Chief Justice	e of India		
	4) President of	India		
50.	Who among th	e following are likely	to benefit from infla	ation in a country?
	1) Creditors	2) Debtors	3) Salaried peop	le 4) Wage earners
51.	Which of the fe	ollowing statements is	s true?	
	1) The Vice-Pr	esident is elected for a	a period of six years	
	2) For election	as Vice-President a p	erson should be the	member of Rajya Sabha
	3) Electoral con President	llege for the election of	of Vice-President is d	ifferent from that of the
	4) Council of M	Ministers is responsible	le to the President	

52.	Mule is the hybri	d of		
	1) male donkey a	and female horse	2) male horse and a	a female donkey
	3) male horse and	d female zebra	4) female horse and	d male zebra
53.	Lunar Eclipse oc	curs when		
	1) Earth is betwe	en the Suns and the N	Ioon.	
	2) Moon is between	een the Sun and the M	Ioon	
	3) Sun is between	n the Moon and the E	arth	
	4) Earth is at righ	nt angle to the direction	n of the Sun and the	Moon
54.	How many minu	tes for each degree of	longitude does the lo	cal time of any place
	vary from the Gr	eenwich time?		
	1) 4	2) 6	3) 2	4) 8
55.	The basic charac	teristic of Oligopology	y is	
	1) a few sellers, a	a few buyers	2) a few sellers, ma	any buyers
	3) many sellers,	one buyer	4) a few sellers, one	e buyer
56.	The headquarters	of International Lab	<mark>our O</mark> rg <mark>a</mark> nization is l	ocated at
	1) Gene <mark>va</mark>	2) Vienna	3) Zurich	4) Paris
57.	In sports, the term	n THIRD EYE is conr	nected with	dv.
	1) Archery	2) Cricket	3) Shooting	4) Billiards
58.	Electrification in	rural areas can be don	ne bette <mark>r and</mark> at chear	per rates through
	1) coal power	2) biogas	3) nuclear energy	4) solar energy
59.	The upanishads of	leal with	dutonot	horo
	1) social behavio	ur of man	2) religion of the H	lindus
	3) ancient Hindu	laws	4) All of these	
60.	Dada Saheb Phal	ke Award is given to a	an achiever in the field	ld of
	1) Cinema	2) Literature	3) Art	4) Journalism
61.	The behaviour of	a perfect gas, underg	oing any change in tl	ne variables which
		properties, is governed	d by	
	1) pressure exert	ed by the gas	2) volume occupied	d by the gas
	3) temperature of	f the gas	4) All of these	
62.		eat required to raise th	e temperature of 1 kg	g of water through 1°
	C is called		2) G	
	-	at constant volume	2) Specific heat at a	constant pressure
	3) Kilocalorie		4) None of these	



71.	. Which of the two metals are mixed in manufacturing stainless steel?			
	1) Zinc, Chromium	2) Nickel, Chromium		
	3) Chromium, Iron	4) Nickel, Iron		
72.	Which gas is evolved during photosyn	nthesis in plants?		
	1) Carbon dioxide	2) Oxygen		
	3) Nitrogen	4) Hidrogen		
73.	Why is ozone layer important to man	kind?		
	1) It creates a protective covering aga	inst ultraviolet rays		
	2) It remains the temperature of earth			
	3) It release oxygen in the atmosphere	e		
	4) It release Corban Dioxide in the at	mosphere		
74.	The temperature at which the volume	of a gas becomes zero is called		
	1) absolute temperature	2) absolute zero temperature		
	3) absolute scale of temperature	4) None of these		
<i>75.</i>	For the reversibility of a cycle, there	should be et s		
	1) loss of energy	2) no loss of energy		
	3) gain of energy	4) no gain of energy		
76.	The amount of heat generated/kg is ki	nown as		
	1) heat energy	2) calor <mark>i</mark> fic value		
	3) lower calorific value	4) higher calorific value		
77.	A four stroke cycle petrol engine requ	pires for strokes of the piston to complete		
	1) one cycle of operation	2) two cycles of operation		
	3) four cycles of operation	4) eight cycles of operation		
78.	The advantage(s) of an economiser is	/are		
	1) it increases the efficiency of the bo	iler plant		
	2) it reduces the range of temperature	between different parts of the boiler		
	3) it makes for more rapid evaporation			
	4) All of these			
	·	decreases as we proceed from innermost		
	row to the outermost row, is known as			
	1) chain riveted joint	2) zia zag joint		
	3) diamond riveted joint	4) double riveted butt joint		

80.	In case a hinged support the reaction				
	1) acts in a direction perpendicular to t	he plane on which hinge is supported			
	2) may be in any direction depending upon the bed				
	3) reactions are perpendicular to the pl	ane of bottom surface of the structure.			
	4) None of these				
81.	Bitumen is a				
	1) natural organic substance	2) synthetic organic substance			
	3) semi-synthetic organic substance	4) None of these			
82.	The electron emission method used in	vacuum tube is			
	1) thermionic emission	2) low electric field emission			
	3) high electric field emission	4) None of these			
83.	Open circuit test on transformers is con	nducted to measure			
	1) core loss 2) friction loss	3) copper loss 4) None of these			
84.	As open fuse has a resistance of	-41-			
	1) Zero	2) infinity 1 S			
	3) about 100 ohms at room temperatur	e 4) at least 1000 ohms			
85.	Electrical resistance and heating eleme	ents are made from:			
	1) brass 2) copper	3) nichorme 4) gun metal			
86.	The energy is emitted from a body in tin	ny packets and not as a continuous stream.			
	This statement is based on:	dytonether co			
	1) Plank's quantum	2) Bohr's theory			
	3) Balmer theory	4) Photoelectric effect			
87.	Radiation can be detected by				
	1) ammeter 2) voltmeter	3) electrometer 4) oscillator			
88.	The point, though which the whole we	ight of the body acts irrespective of its			
	position is known as				
	1) moment of inertia	2) centre of gravity			
	3) centre of percussion	4) None of these			
89.	A machine having an efficiency less th	an 50% is known as			
	1) reversible machine	2) non-reversible machine			
	3) neither (1) or (2)	4) ideal machine			

90.	If the gravitational acceleration at any place is doubled, then the weight of body will be				
	$1)\frac{q}{2}$	2) g	3) 2g	4) 2g	
91.	The unit of acceler	ration is			
	1) kgm	2) m/sec	$3) \text{ m/sec}^2$	4) rad/sec ²	
92.	A rubber ball is dr	opped from a height	of 2m. If there is no l	loss of velocity after	
	rebounding, the ba	all will rise to a heigh	t of		
	1) 1m	2) 2m	3) 3m	4) 4m	
93.	One watt is equal	to			
	1) 0.1 joule/sec	2) 1 joule/sec	3) 10 joule/sec	4) 100 joule/sec	
94.	When the spring of	f a watch is wound, i	t will possess		
	1) strain energy	2) kinetic energy	3) heat energy	4) electrical energy	
95.	A beam which is f	ixed at one end and f	ree at the other is ca		
	1) simple supporte	ed beam	2) fixed beam	S	
	3) overhanging bea	am	4) cantilever beam		
96.	According to first	law of thermodynam	nics Stu (V	
	1) total internal energy of a system during a process remains constant				
	2) total energy of a system remains constant				
	3) work done by a	system is equal to th	e heat transferred by	the system	
	4) internal energy,	enthalpy and entropy	y during a process reponsition may take place	nain constant	
97.	The transfer of hea	at from one place to a	another may take plac	ce by	
	1) conduction	2) convection	3) radiation	4) any of these	
98.	The density of flui	d varies with the			
	1) change of temporal	erature	2) change of p	ressure	
	3) change of temper	erature and pressure	both 4) None of the	ese	
99.	Piezometer is used	I to measure			
	1) atmospheric pre	essure	2) very low pressure	e	
	3) very high pressu	ure 4) di	fference in pressure b	between two points	
100.	The weight of an	object would be min	imum when it is place	ed at	
	1) north place		2) south place		
	3) equator		4) centre of the eart	h	

101.	. The gravitational force of attraction between the sun and earth is balanced by			
	1) centrifugal force		2) centripetal force	
	3) law of conservat	tion of mass	4) gravitational forc	e
102.	The rate of change	of momentum is pro	portional to	
	1) torque impressed	d	2) force impressed	1
	3) time during which	ch the force is applie	d 4) change in veloc	ities
103.	The energy possess	sed by a horse running	ng on level road is	
	1) work energy		2) heat energy	
	3) kinetic energy		4) potential energy	
104.	The value of accele	eration due to gravity	for earth is	
	1) greater at poles t	than at equator	2) greater at equator	than at the pole
	3) same at both pla	ices	4) constant everywh	iere
105.	Within classic limit	t, the ratio of lateral	strain to the linear str	ain is known as
	1) modulus of rigid	lity	2) bulk modulus	
	3) modulus of elast	ticity	4) poisson's ratio	S
106.	Power factor of an	inductive circular ca	n be improved by co	nnecting a capacitor
	to it in		: Stuc	1 y
	1) series		2) parallel	. Alle a co
	3) either series or p	parallel	4) depends on the va	alue of capacitor
107.		_	f load is reduced, it v	
			2) less current	1er.co
	3) same current but		4) less current more	power
108.	Mica is used in an o	electric iron because	it is a	
	1) bad conductor of	f heat	2) good conductor o	f heat
	3) good conductor	of electricity	4) bad conductor of	electricity
109.	Name like LOTUS	, JAVA, ORACLE re	fer to which area of	activity
	1) Telecommunicat	cion	2) Missile technolog	gy
	3) Computer hardw	vare	4) None of these	
110.	Which one of the fo	ollowing is an anti-ta	ank missile?	
	1) Agni	2) Nag	3) Prithvi	4) Trishul
111.	-	re do both Centigrad	e and Fahrenheit ther	mometers show the
	same reading?	2) 400	2) 420	4) 00
	1) -20°	2) -40°	3) 42°	4) 0°

112.	112. A sudden fall in barometer reading indicates that the weather will be				
	1) turbulent	2) rainy	3) cool	4) None of these	
113.	Plants take nitroge	n in the form of			
	1) nitrogen	2) nitrous oxide	3) nitrates	4) nitrogen oxide	
114.	India's contribution	n to mathematics inc	ludes		
	A. Number system	B. Zero	C. Decimal system		
	1) A and B	2) A	3) B and C	4) A, B and C	
115.	Which gland in hu	man body maintains	body temperature?		
	1) Pitutary	2) Thyroid	3) Adrenal	4) Hypothalamus	
116.	The chemical beha	viour of an atom is d	letermined by its		
	1) Atomic mass.	2) Atomic weight	3) Atomic number	4) None of these	
117.	If the length and cr	ross sectional area of	a wire are doubled, i	its resistance will	
	1) remain unchang	ed	2) become twice		
	3) reduce to one ha	alf	4) increase four tim	es	
118.	The line joining the	e north and south pol	<mark>les of</mark> a <mark>m</mark> agnet is ca	lled	
	1) Magnetic axis		2) Magnetic Meridi	an	
	3) Magnetic field		4) None of these	V	
119.	An electric charge	in uniform motion p	roduces	- 9	
	1) an electric field	only	2) a magnetic field	only C	
	3) both electric and	l magnetic field	4) None of these		
120.	The velocity of α	ays is	dytonetl	ner co	
	1) $3 \times 10^6 \text{ m/s}$	2) $9 \times 10^8 \text{ m/s}$	3) 10^8 m/s	4) None of these	
		ANSW	<u>ERS</u>		
1-3;	2- 1; 3- 1; 4- 2; 5	- 4; 6- 1; 7- 1; 8- 2	; 9- 1; 10- 3; 11- 1;	12- 4; 13- 3; 14- 4;	
15-	2;16-2;17- 4; 18- 1	; 19- 2; 20- 1; 21- 1	; 22- 3; 23- 4; 24- 2;	; 25- 2; 26- 4; 27- 3;	
				; 38- 1; 39- 4; 40- 2;	
				; 51-3; 52-2; 53-1;	
				-; 64-2; 65-3; 66-1;	
				2; 77- 1; 78- 4; 79- 3; 2; 90- 4; 91- 3; 92- 4;	
)2-2; 103-3; 104-1;	
				13- 1; 114- 4; 115- 4;	
116	- 3; 117- 1; 118- 1;	119-3; 120-1.			