NOTE: DO NOT BREAK THE SEAL UNTIL YOU GO THROUGH THE FOLLOWING INSTRUCTIONS

QUESTION BOOKLET

Diploma Polytechnic Entrance Test – 2012

Paper - I (ENGLISH AND SCIENCE)

Roll No. (Enter-your Roll Number in the above space)

Booklet No. B100930

Time Allowed: 2.00 Hours

Max. Marks: 100

INSTRUCTIONS:

- 1. Use only BLACK or BLUE Ball Pen.
- 2. All questions are COMPULSORY.
- 3. Check the BOOKLET thoroughly.

IN CASE OF ANY DEFECT - MISPRINTS, MISSING QUESTION/S OR DUPLICATION OF QUESTION/S, <u>GET THE BOOKLET CHANGED WITH THE BOOKLET OF THE SAME SERIES</u>. NO COMPLAINT SHALL BE ENTERTAINED AFTER THE ENTRANCE TEST.

- 4. Before you mark the answer, fill in the particulars in the ANSWER SHEET carefully and correctly. Incomplete and incorrect particulars may result in the non-evaluation of your answer sheet by the technology.
- 5. Write the SERIES and BOOKLET NO. given at the TOP RIGHT HAND SIDE of the question booklet in the space provided in the answer sheet by darkening the corresponding circles.
- 6. Do not use any **eraser**, **fluid pens** etc., otherwise your answer sheet is likely to be rejected.
- 7. After completing the test, handover the ANSWER SHEET to the Invigilator.

PAPER - I

SECTION I

(ENGLISH)

Choose the most suitable answer in the following questions:

1.	"Where's the	— post office, pleas	se"?			
	(1) most near (2)	near (3)) more near	(4)	nearest	
2.	Her parents live ———	——— New Delhi.				
	(1) at (2)	from (3)) in	(4)	by	
3.	Joe's parents are sick -	his beh	avior.			
	(1) from (2)	at (3)) about	(4)	of	
4.	Colonel Gurmeet congr	atulated the soldie	rs ———— the	eir vio	ctory.	
	(1) for (2)	at (3	on	(4)	about	
5.	The planet was seen —	——— the teles	scope.			
	(1) by (2)	on (3)	from	(4)	at	
6.	The news of his promot	ion came ———	— the next day.	-		
	(1) by (2)	on (3)	in	(4)	at	
7.	He is not afraid ———	the conseque	nces.			
	(1) for (2)	by (3)	of	(4)	from	
8.	He rushed —	the class, as he wa	s late.			
n*	(1) for (2)	in (3)	by	(4)	to	

9.	9. When Simon ———— back tonight, he'll cook dinner.						
	(1) comes	(2)	will come	(3)	come	(4)	shall come
10.	We arrived ———	e-manner in	- England two d	lays a	igo.		
	(1) to	(2)	in	(3)	on	(4)	at
			•				
11.	Last night we —		— for a walk a	after t	the dinner.		4
	(1) went	(2)	go	(3)	will go	(4)	gone
	•						
12.	He will return in -	n= 11	—— hour.				
	(1) a	(2)	an	(3)	the	(4)	by
13.	Why are you so hu	ıngry	? 'Oh, I ———		breakfast this m	ornin	g'.
	(1) hadn't	(2)	didn't	(3)	didn't have	(4)	haven't
	· ·						
14.	You — b	etter	see a doctor.				
	(1) did	(2)	would	(3)	should	(4)	had
			,			•	
15.	He told me that he	e ——	——— in Spa	in the	e previous year.		
	(1) has been wor	king	٠	(2)	had been worki	ng	
	(3) has worked	,		(4)	had been worke	ed	
16.	She — n	ae to	go to school.				
	(1) said	(2)	told	(3)	suggested	(4)	made
	•						

Code No. 01

17.	Our base ball tear	m —	—— nine	e playe	rs.			
	(1) has			(2)	have	•		
	(3) both are corr	rect		(4)	none of	the above		
						•	•	
18.	I come —	— Eng	land.					
	(1) to	(2)	${f from}$	(3)	at	(4)	in	
19.	There aren't ——		- people here	. .				
	(1) many	(2)	a lot	(3)	more	(4)	some	
20.	Tim — v	work to	omorrow.		*			
	(1) isn't going			(2)	isn't			
	(3) isn't going to			(4)	isn't to			
21.	I'd like —	— info	rmation plea	se.				
	(1) an	(2)	some	(3)	piece	(4)	a piece	
22.	I went to the shop		some	chocola	ate.			
	(1) for buying	(2)	for buy	(3)	to buy	(4)	buy	
23.	Raj said, "I don't li	ike cof	fee". You rep	lied, "-		— do I".		
	(1) So	(2)	Neither	(3)	Either	(4)	No	

24.	The school is famous					- its sports achievements.					
	(1)	from	(2)	for		(3)	by	(4)	because of		
25.	Hov	v long ——	· · · · · · · · · · · · · · · · · · ·	English?							
	(1)	do you lear	n ·			(2)	are you lea	rning			
	(3)	have you be	een lea	rning		(4)	you learn				
e								•			
26	Can	you tell me	when -		— ?	No.					
	(1)	the train le	aves			(2)	does the tr	ain leave	•		
	(3)	leaves the t	rain			(4)	does leave	the train	•		
27.	The	ten day dus	sehra i	festival car	me to	an e	nd today wh	ien idols o	f Durga ——		
	in t	he Ganges.							,		
	(1)	immersed				(2)	had been i	$\mathbf{m}\mathbf{m}\mathbf{e}\mathbf{r}\mathbf{s}\mathbf{e}\mathbf{d}$			
	(3)	would be in	nmerse	ed		(4)	were imme	ersed			
28.	Thi	rty five peop	le ——	in	a tru	ıck-bı	us accident v	when the b	orakes of bus	failed.	
	(1)	had died	(2)	were dea	ıd	(3)	died	(4)	are dead		
29.	A tv	wo year old b	oy —	i	nto a	deep	bore well in	a village	near Jammu.		
	(1)	was fallen	(2)	fell		(3)	will fall	(4)	felled		
30.	· I —	to	bring	my lunch	todav						
						(3)	forgetten	(4)	forgotten		
	(1)	forget	(2)	forgot		(0)	TOT Serven	(-1)	101 8000011		
Cod	e No.	. 01				6	•			Ŧ	

SECTION II

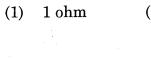
(PHYSICS)

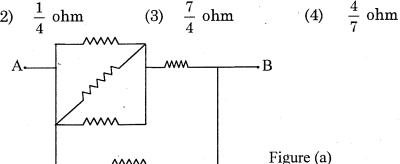
31.	Wh	ich of the foll	owing !	lens is used	to minin	nize myopia?		
	(1)	convex lens	} .		(2)	concave lens	3	
	(3)	cylindrical	lens		(4)	none of thes	e	
32.	The	e light which	refract	s most while	e passing	through a pr	rism is	
	(1)	red	(2)	violet	(3)	indigo	(4)	yellow
33.	Uno	der normal co	onditio	ns, the color	of the sk	y at noon is		
	(1)	blue	(2)	red	(3)	yellow	(4)	none of these
34.	The	e ratio of real	depth	to apparent	depth is	called the		
	(1)	refractive i	ndex		(2)	critical angl	е	
	(3)	lateral disp	laceme	ent	(4)	none of thes	e	
35.	The	ere is no flow	of curr	ent betweer	ı two cha	rged bodies w	hen con	nected because
	(1)	they have t	he sam	e quantity o	of charge			
	(2)	they have t	he sam	e potential		•	•	
	(3)	they have t	he sam	e capacity				
	(4)	they have t	he sam	ne ratio of po	otential p	er unit charg	e	•
36.	Kilo	owatt hour is	a unit	of				en e
	(1)	power	(2)	energy	(3)	impulse	(4)	force
37.	A n	nan has five	resisto	rs each of v	value $\frac{1}{5}$	ohm. What is	the max	imum resistance h
	can	obtain by co	nnectir	ng them?			· ·	
	(1)	1 ohm	(2)	5 ohms	(3)	$\frac{1}{2}$ ohm	(4)	$\frac{2}{5}$ ohm
38.		the length of istance will	f a wir	e is double	d and it	s cross section	on is als	o doubled, then th
	(1)	increase ei	ght tim	ies	(2)	decrease for	ır times	
	(3)	become fou	r times	5	(4)	remain unc	hanged	
В					7			Code No. 0

Code	No.	01			8			В
	(3)	X-rays		· .	(4)	all of the above		
	(1)	infra red ray			(2)	visible rays		
48.	Eve	ry hot object e	mits				-	
47.	Out (1)	of the followi Petrol	ng, w	hich fuel has th Kerosene	ne leas (3)	st calorific value? Diesel	(4)	Coke
	(3)	thermal ene	rgy		(4)	none of these		·
	(1)	nuclear ener	gy		(2)	methane		
46.	The	vast amount	of sea	a weeds present	in oc	eans may provide	e an e	endless source of
	(1)	car dynamo	(2)	electric motor			(4)	none of these
45.	Whi	ich of the follo	wing	devices transfo	${ m rms}~1$	ight energy into o	hem	ical energy?
44.	Whi (1)	ich of the follo coal gas	wing (2)	is an example o	of foss (3)	sil fuel? natural gas	(4)	producer gas
	(1)	6 times	(2)	36 times	(3)		(4)	24 times
43.		_				es then the kineti		
	(4)	magnitude o	of curi	cent				
	(3)			otion of the con	ducto	or		
	(2)	direction of	magn	etic field				
	(1)	direction of	curre	\mathbf{nt}				
42.	Am	pere rule is us	sed to	find the				
	(1)	0.1 N	(2)	100 N	(3)	10 N	(4)	1 N
41.				rrent of 5 A is h centimeter of	_		to a	magnetic induction
	(3)	perpendicul	ar to (each other	(4)	none of the abo	ve	
	(1)	parallel to e	ach o	ther	(2)	anti parallel to	each	other
40.	The	ere will be no	force l	between two wi	res ca	arrying current if	curr	ents are
	(1)	DC	(2)	AC	(3)	fluctuating DC	(4)	both AC and DC
39.	In a	a DC generato	r the	induced e.m.f.	in the	armature is		

В					9	- ,		Code No. 01
	(3)	retina			(4)	pupil		
	(1)	iris			(2)	ciliary muscle)	
57.	The	screen behir	d the	eye lens is cal	led the			4
	(1)	10 times	(2)	11 times	(3)	2.5 times	(4)	none of these
56.	If th	ne focal lengt	h of a	magnifying gl	ass is 2	2.5 cms, it can r	nagnify	an object
	(3)	convergence	e or div	vergence	(4)	none of these		
	(1)	converges o	nly		(2)	divergence on	$\mathbf{l}\mathbf{y}$	
55.	The	power of a le	ens is a	a measure of i	ts degr	ee of		
	(1)	reflection	(2)	refraction	(3)	dispersion	(4)	none of these
54.	Wh	en light trave	els fron	n one medium	ı into a	nother, it suffe	rs	
	(3)	first decrea	ses the	en increases	(4)	remains the s	ame	
	(1)	decreases			(2)	increases		·
53.	Wh	en an object i	noves	towards a con	ıvex ler	s, the size of th	ne imag	re
	(1)	3 m	(2)	4.5 m	(3)	6 m	(4)	none of these
52.		- ·	_	ont of a plane he boy and his			of 3 me	tres from it. What is
	(1)	2.0	(2)	1.5	(3)	0.2	(4)	none of these
51.	If tl	he focal lengt	h of a	spherical mir	ror is n	times its radiu	s of cur	rvature, then <i>n</i> must
	(1)	positive	(2)	negative	(3)	zero	(4)	infinity
50.	In	case of a real	and in	verted image,	, the ma	agnification of	a mirro	r is
	(1)	15°	(2)	30°	(3)	150°	(4)	none of these
49.				s a plane mir ay and reflect			with th	ne mirror. The angle

58. Five identical resistance coils are connected in the network as shown in Figure (a) below and the resistance measured between A and B is 1 ohm. Then the individual coils must have a resistance of





- 59. In general, when the temperature of a conductor increases, its resistance
 - (1) increases

(2) decreases

(3) remains the same

- (4) none of the above
- 60. The work done in moving a unit positive charge across two points in an electric circuit is a measure of
 - (1) current

(2) resistance

(3) power

- (4) potential difference
- **61.** Laws of heating are given by
 - (1) Joule
- (2) Ohm
- (3) Maxwell
- (4) Faraday

- 62. The frequency of AC mains in India is
 - (1) 100 Hertz
- (2) 50 Hertz
- (3) 60 Hertz
- (4) 1/50 Hertz
- 63. The coil of a heater is cut into two equal halves and only one of them is used in the heater. The ratio of the heat produced by this half of the coil to that produced by the original coil is
 - (1) 2:1
- (2) 4:1
- (3) 1:2
- (4) 1:4
- 64. A circuit has a fuse of 5 A. What is the maximum number of 100 W (220 V) bulbs that can be safely used in the circuit?
 - (1) 7
- (2) 9
- (3) 11
- (4) 20
- 65. The force which a magnet exerts on iron and steel is called the
 - (1) electric force

(2) magnetic force

(3) nuclear force

(4) gravitational force

SECTION III

(CHEMISTRY)

(1) Oxidation (2) Reduction (3) Dehydration (4) Hydration 68. A process employed for the concentration of sulphide ore is (1) Froth floatation (2) Roasting (3) Electrolysis (4) Bessemerization	66.	The	H+ ion conce	entrati	on of a solutio	n is 1.0	$0 imes 10^{-5}$ m. The	e soluti	ion is	
(1) Oxidation (2) Reduction (3) Dehydration (4) Hydration 68. A process employed for the concentration of sulphide ore is (1) Froth floatation (2) Roasting (3) Electrolysis (4) Bessemerization 69. The slag obtained during the extraction of copper pyrites is composed mainly of (1) Cu ₂ S (2) FeSiO ₃ (3) CuSiO ₃ (4) SiO ₂ 70. The common method for extraction of metals from the oxide ore is (1) reduction with carbon (2) reduction with hydrogen (3) reduction with aluminium (4) electrolytic method 71. An iron nail was suspended in CuSO ₄ solution and kept for a while the solution is (1) remained blue and coating was found on the nail (2) turned green and a coating was formed on the nail (3) remained blue and no coating was formed on the nail (4) turned green and no coating was formed on the nail 72. The sulphide ore among the following is (1) hematite (2) bauxite (3) argentite (4) zinc blend 73. Zone refining is used for the (1) concentration of an ore (2) reduction of metal oxide (3) purification of metal (4) purification of an ore (4) Purification of an ore (5) Call No. One of the above		(1)	Acidic	(2)	Alkaline	(3)	Neutral	(4)	Amphoterio	
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(1) hematite (2) bauxite (3) argentite (4) zinc blend 73. Zone refining is used for the (1) concentration of an ore (2) reduction of metal oxide (3) purification of metal (4) purification of an ore 74. Which of the following processes is used for the concentration of Bauxite (Al ₂ O ₃ · 2H ₂ O)? (1) Froth floatation (2) Leaching (3) Magnetic separation (4) None of the above		(2) (3)	turned gree remained b	en and lue an	a coating was d no coating w	formed as form	d on the nail ned on the nail			
(1) hematite (2) bauxite (3) argentite (4) zinc blend 73. Zone refining is used for the (1) concentration of an ore (2) reduction of metal oxide (3) purification of metal (4) purification of an ore 74. Which of the following processes is used for the concentration of Bauxite (Al ₂ O ₃ · 2H ₂ O)? (1) Froth floatation (2) Leaching (3) Magnetic separation (4) None of the above	79	Тhе	sulphide ore	e amon	g the followin	g is			•	
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(Al ₂ O ₃ ·2H ₂ O)? (1) Froth floatation (2) Leaching (3) Magnetic separation (4) None of the above	73.	(1)	concentrati	ion of a	n ore	` '				
(3) Magnetic separation (4) None of the above	74.			follow	ring processe	s is ı	used for the	concer	ntration of	Bauxite
(c) Magnetic department ((1)	Froth float		ion		•	hove	•	
		(3)	magnetic s		1011		140He of the 8		Code	No. 01

	(1)	Na ₂ CO ₃	(2)	Na_2CO_3 .		(3)	${ m Na}_2{ m CO}_3.9{ m H}_2{ m O}$	(4)	Na ₂ CO ₃ .10H ₂ O
84.	The	correct form	nula of v	vashing e	oda is				
	(1)	$Ca(OCl)_2$	(2)	CaOCl_2		(3)	$\mathrm{CaOCl}_{2}.\mathrm{H}_{2}\mathrm{O}$	(4)	$\mathrm{CaOCl_2.2H_2O}$
83.	The	simplest for	rmula o	f bleachin	g pow	der is	}		
	(4)	none of the	ese						
	(3)	by raising		tion temp	eratu	re			
	(2)	by removing	-		e subs	stance	e		
82.	Soda (1)	a acid fire e by cutting			ıguish	es th	e fire		
	(1)	PbO	(2)	$\mathrm{Cr_2O_3}$		(3)	Borax	(4)	Silver bromide
81.	Whi	ch of the su	ıbstance	is presen	t in th	ne pho	otochromatic gla	ass?	
	(1)	$\mathrm{C_2H_2}$	(2)	$\mathrm{C_6H_6}$		(3)	$\mathrm{C_2H_4}$	(4)	$\mathrm{C_2H_6}$
80.		formula of	-			(0)	~	(4)	
				W					
•	(3)	Lead				(4)	Sulphuric acid		
	(1)	Sulphur d			•	(2)	Chalk		
79 .	Whi	ich of the fo	llowing	is not a co	ompou	ınd?			
	(1)	F	(2)	Cl		(3)	Br	(4)	I
78.		ich of the fo			st rea	ctive			
	(1)	Li	(2)	N		(3)	Na	(4)	P
77.	Wh	ich of the fo	llowing	elements	has n	naxim	um metallic ch	aracte	r?
	(1)	6	(2)	7		(3)	10	(4)	18
76.					ng forr		he periodic table		
	(1)	K	(2)	Ca		(3)	Al	(4)	P
75.	Wh	ich of the fo	ollowing	has maxi	mum	atom	ic size?		

85.	100	100% pure ethyl alcohol is called									
	(1)	Rectified spirit	(2)	Absolute alcohol							
	(3)	Denatured alcohol	(4)	Power alcohol							
86.	In t	the equation NaOH + $HNO_3 \rightarrow NaN$	1O ₃ + I	$ m H_2O$ nitric acid is acting as							
	(1)	oxidizing agent	(2)	an acid							
	(3)	a nitrating agent	(4)	a dehydrating agent							
87.		thane reacts with 1 mole of chlor reaction is called ————.	ine in	presence of sunlight to give ————;							
	(1)	Chloromethane, substitution	(2)	Chloromethane, addition							
	(3)	Dichloromethane, addition	(4)	Trichloromethane, substitution							
88.	Car	boxylic acid containing one carbor	ı atom	is called							
	(1)	Formic acid	(2)	Butyric acid							
	(3)	Acetic acid.	(4)	Propanoic acid							
89.	Whi	ich of the following statements abo	out gr	aphite and diamond is true?							
	(1) They have the same crystal structure										
	(2)	They have the same degree of ha	ardnes	${f s}$							
	(3)	They have the same electrical co	nduct	ivity							
	(4)	They can undergo the same cher	nical r	reactions							
90.	The	number of isomers of C ₆ H ₁₄ is									
	(1)	4 (2) 5	(3)	6 (4) 3							
91.	Arti	ificial flavour for orange is obtained	ed fron	1							
	(1)	amyl acetate	(2)	isoamyl valerate							
	(3)	methyl butyrate	(4)	octyl acetae							

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92.	During melting, an additional substance is added which combines with impurities to form a fusible product. It is known as										
	(1) Slag (2) Mud	(3)	Flux	(4)	None of the above						
93.	The lustre of a metal is due to										
	(1) its high density(3) its chemical inertness	(2) (4)	its high polishi presence of free		rons						
94.	In the thermite process, the reducir	o agent	is								
J4.	(1) Nickel (2) Zinc	(3)	Sodium	(4)	Aluminum						
95.	When dilute HCl is added to zinc pi (1) No change takes place			i							
	(2) The color of the solution becom(3) A pungent smelling gas gets li		W								
	(4) Small bubbles of H ₂ gas appear		surface of zinc	pieces	· · · · · · · · · · · · · · · · · · ·						
		•	7	.1							
96.	PbS reacts with ozone (O ₃) and molecules of ozone required for even				balanced equation,						
	(1) 4 (2) 3	(3)	2	(4)	1						
97.	Chemically rust is										
91.	(1) hydrated ferrous oxide	(2)	hydrated ferric	oxide)						
	(3) only ferric oxide	(4)	none of these								
98.	Copper displaces which of the follow	ving met	als from its salt	solut	ion?						
00.	(1) ZnSO_4 (2) FeSO_4	(3)		(4)	$NiSO_4$						
99.	The reaction $H_2 + Cl_2 = 2HCl$ repre-	sents									
	(1) Oxidation (2) Reduction	(3)	Decomposition	(4)	Combination						
100.	In the reaction $PbO + C = Pb + CO$	•									
200.	(1) PbO is oxidized										
	(2) C act as an oxidizing agent										
	(3) C act as a reduction agent	dor	rtion								
	(4) Reaction does not represent re	euox reac	MOII								

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