Federal Directorate of Education Islamabad

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Annual Examination-VIII 2024 GENERAL SCIENCE

(Objective)

Time A	lowed: 40 Minutes
Note	This paper consists of THREE Sections. Section - A needs to be selved on the Question Paper. Section - B & C to be selved on the Answer Sheet. Cutting, erasing and overwriting is not allowed.

				SE	CTION - A (3	0-Mar	ks)		
1	Enc	ircle th	e correct opt	ion. E	ach part carrie	e oqui	d marks.		(30)
	(i)	Whi	ch of the follow	ving e	lements is a met	alloid?			
		(a)	Gold	(b)		(c)	Iron	1	Silicon
	(ii)	Form	with the Kingle		and before a			•	
	(11)	(a)	e applied per a Buoyancy	(b)		(c)	Friction	(d)	Net-force
		(,-,	Dunyancy	(0)	Court	(*)	*********	(4)	Section 2
	(iii)	When		tal pie	cc, it flattens and	hecom	es thinner. This		ne metals are:
		(4)	Flexible	800	Malleable	(c)	Dense	(q)(Senorous
. (iv)	Gree	n house traps;					V.	
			arbon-dioxid	4	Heat	(c)	Light =	udi.	Water
17		Whi	h - 64 - 64			200		3	
	v)	(a)	H ₂ O		an ionic compo		CHACOOR		751 m
		643	11207	(b)	C2H12O4	(c)	CHEDOH	(6	NaC1
- (vi):	The	levice that is us	ed to p	rutect a circuit ag	uinst's	nvrhould il:		
		(a) I	leater		Fuse	(c)	Lamp	(d)	Switch
10	-in	71		9	Table 1		J		
,	vii)	I.Be v	Sour		om Latin word ".	Acidus	Control of the Contro	-	12.47
			Sour	(p)	Sweet	. (E)	Bitter	(d)	Salty
0	viii)	Which	b of the followin	ng is n	ot an alkali?	1			
		(a)	KOH	(b)	NaOH		H ₂ CO ₃	(d)	Ca(OH):
144		****	Santy N		1.0		100000	(59)	5111000
(1	X)	(a)	h is the larges	t part	of hrain.				
		(4)	Brain stem	(6)	Hypothalamus	(c)	Thalamus	(d)	Cerebrum
- Ex	()	Gene	are present e	m					
		(a)	DNA	-	aromosomes	(c)	nucleus	uh	nucleotide
			6.6	17			0.000	(d)	nucleotide
(x	ii)	Then	eaction between	en soc	lium and water	produ	ces:		
			Hz	(b)	O2	(c)	NaC1	(d)	Naz COx
10	(ii)	18/2/6	100		# 1737 . 17 A 1737				C. Christiana II
(1	n)	(a)	spiral	le star	formation gala				
		100	Aurai	(b)	elliptical	(c)	irregular	(d)	spherical
(x	(iii)	Whiel	of the follow	ing is	not chemical ch	unner			
	- 4	(6)	burning	(b)		(c)	cooking	Sh.	
	5	70	-		7-100 PM	(*)	Cooking	31	cutting
(x	(1)	Involu	intary activity	is:					
		(a)	walking	(b)	cating	-	breathing	(d)	reading
		San							· · · · · · · · · · · · · · · · · · ·
(X)	()				oup contain alk	ali me	etals?		
		(10)	LA	(b)	HA	(c)	IIIA	(d)	IVB

(xvi)		he light passing fr) remain the same		to glass will ca increase	use the	speed of light	to: (d)	reduce to Zero
(xvii	n.	eficiency of insuli	n hinsen	one califer	_			
(211)	(n	and the second	(b)	heart disease	(c)	hypertension	(d)	epilepsy
(xviii	De	evice used in subn	aarine	to see what is	going o	n the surface o	fwater	
	(a)			Telescope	(c)	Periscope	(d)	Stethoscope
(xix)	Th	e SI unit of volta	ge is:					1
	(a)	Volt	(b)	Amperes	(c)	Obm	(d)	Watt
(xx)	All	of the following	involv	e mitosis EXCI	EPT:		7	
	(a)	gamete formation	(b) h	caling of wound	ds (c)	growth	(d)	development
(xxi)	W	hich type of mirro	or is u	sed in solar coo	ker?	1		
	(a)		(b)	Convex	(8)	Concave	(b)	Flat
(xxii)	Th	ere are		es of nitrogeno	us bas	es in DNA:		
	(a)	2	(5)	4	(c)	3	(d)	5
(xxiii)	Fat	and oil when mi	xed w	ith alkali form		,		
	(n)	soap	(b)	shampoo	(c)	plastic	(d)	toothpaste
(xxiv)	Mo	st common type	of gal	axies in the ur	iiverse	are:		
		Spiral	(b)	Elliptical	(c)	Irregular	(d)	Regular
(xxx)	An	v change in the c	nvicen	ment which h	is some	influence on l	iving o	rganisms is called
(44.)	(a)		(h)	response	(c)	stimulus	(d)	receptor
a .				1				
(XXVI)	(a)	uatic life on cartl 96%	(b)	95%	Cox	90%	(d)	97%
	0.00		P. 101					
(XXVII)		atmospheric pr		in Lahore	(c)	in Karachi	745	on top of K-2
	(a)	in Islamabad	(b)	in Lanore	(c)	in Kataciii	(4)	on top of it 2
(xxviii)	Th	e organism that	kills th	e other for foo	d is ca	lled:	12	120
	(n)	prey	(h)	parasite	(c)	pathogen	(d)	predator
(xxix)	Prol	biotics are made	up of	good:				
	(a)	Bacteria	(h)	Virus	(c)	Fungi	(d)	Antibodies
(xxx)	The	study of the cha	racter	and evolution	of the	universe is ca	lled:	
		pace technology		astronomy	409	cosmology	(d)	agronomy

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Annual Examination-VIII 2024

GENERAL SCIENCE

(Subjective)

Time Allowed: 2:20 Hour

(b)

			SECTION - B (40-Marks)	
	Q-2	. Att	empt any TEN parts of the following. Each part carries FOUR marks. (10x4=40)	
		(i)	Why is it dangerous to touch a live wire while standing on earth barefooted?	1
		(ii)	A CO	9
		(iii)	With the help of examples explain the difference between double displacement reaction and displacement reaction.	
		(iv)	Why are large convex mirrors fixed at blind turns of mountains?	
		(v)	What is white light? How is the color of light related to the reflection and absorption of light?	
		(vi)	Investigate how current flows through a circuit without a potential difference.	
		(vii	Elaborate on the working of UPS.	
		(vii	ii) Why will the Sun not become a black hole?	
		(ix)	How can you define mutualism? Describe with some examples.	
		(x)	Explain and illustrate the difference between variation and adaptation.	
		(xi)		
		(xii	Metal wires can be transformed into different shapes without breaking. Why?	
		(xiii		
		(viv)	(a) H₂ + O₂ → H₂O (b) 2AgCI → Ag + CI (c) Mg + HCI → MgCl₂ + H (d) NH₃ → N + 3H₂ Differentiate between strong and weak acids?	
		(xiv)		,
		(xv)	If there are many forces acting on an object, how can the net force be ZERO'S SECTION - C (30-Marks)	
		Note	Attempt any THREE questions and draw a diagram where necessary. (3	×10=30)
o	}-3.	(a) (b)	Describe how energy flows from producers to consumers. Differentiate between reflex arc and reflex action and explain the pathway	(5) (5)
			followed by nerve impulse in a reflex arc.	(5)
Q	-4.	(a) (b)	How is the pressure related to force and area? Explain resistance as the opposition to the flow of charge. What is the Relationship between voltage and resistance?	(5)
Q-	5.	(a)	Differentiate between ionic and covalent bond. Explain your answer with thelp of examples.	he (5)
	4	(b)	Copper is a good conductor of electricity and plastic is a good insulator. Explain with an example.	(5)
Q-		(a)	Describe the process of mitosis in detail.	(5)
	.[7]	(b)	Give some important applications of biotechnology in agriculture and livestock.	(5)
Q-7		(a)	Describe acids and bases with at least two examples of each.	(5)
- '	2	(4)	It at at a filtitie of a see to be been body weetble in the presence of his	aht? (5)

How is the visibility of a non-luminous body possible in the presence of light? (5)