

FEDERAL PUBLIC SERVICE COMMISSION FOR POSTS IN BS-17 POSTS IN BS-17 2011 (EVERYDAY SCIENCE)

TIME ALLOW	ED: (P_{\cdot})	ART-I MCQs)	80 MINUTES	MAXIMUM MARKS: 50					
THREE HOURS	\mathbf{S} $(\mathbf{P}_{\mathbf{A}})$	ART-II)	100 MINUTES	MAXIMUM MARKS: 50					
NOTE: (i) Fi	rst attemp	ot PART-I (MCQs)	on separate Answer Sheet whic	h shall be taken back after 80					
m	minutes.								
(ii) O	verwritin	g/cutting of the op	tions/answers will not be given	credit.					

NOT	E: (i)	1	T-I (MCQs)	on sepa	arate An	swer Shee	et whi	ch shal	l be tak	en back after 80			
	(ii)	minutes. Overwriting/cutting	ng of the op	tions/an	swers v	vill not be	give	n credi	t.				
			(PART-I M	(COs) ((COMPI	ILSORY)							
Q.1.	Sele	ect the best option/answe						swer sl	neet.	$(1 \times 50 = 50)$			
(1)		The planet of the solar system which has maximum number of Moon is:											
	(a) (e)	Jupiter (b) None of these.	Venus	(c)	(c) Saturn (d)		(d)	Uranus					
(2)	Sun	is a:											
	(a) (e)	Planet (b) None of these.	Comet	(c)	Satellite (d)		(d)	Aurora					
(3)	The	age of the solar system											
	(a) (c)	4.5 billion years6.5 billion years		(b) (d)	5.5 billion years7.5 billion years				(e)	None of these.			
(4)	A uı												
	(a) (e)	Light year (b) None of these.	Astronomic	al unit	(c)	Parsec		(d)	Paral	lax			
(5)	An e	An eclipse of the Sun occurs when:											
	(a)	(a) The Moon is between the Sun and the Earth (b) The Sun is between the Earth and the Moon											
	(c) (e)	The Earth is between to None of these.	the Earth is between the Sun and the Moon (d) The Earth casts its shadow on the Moon one of these.										
(6)	The	The ozone layer protects the Earth from rays sent down by the Sun:											
	(a) (d)	Ultraviolet rays Radioactive rays		(b) (e)		red rays of these.		(c) Gamn		ma rays			
(7)		The ozone layer is present about 30 miles (50 Km) in atmosphere above the Earth. The stratum (layer) of atmosphere in which ozone layer lies is called as:											
		Exosphere Ionosphere		(b) Mesosphere(e) Troposphere				(c)	osphere				
(8)	Whi	ch rocks are formed by	the alteration	n of pre-	existing	g rocks by	great	heat or	pressu	re?			
	(a) (d)	Igneous rocks Acid rocks		(b) (e)		nentary ro c rocks.	cks	(c)	Meta	morphic rocks			
(9)	The	most abundant natural I	ron Oxides	are:									
	(a)	Magnetite and Pyrite	(b)	Mag	netite an	nd Bauxite		(c)	Hema	atite and Pyrite			
	(d)	l) Hematite and Magnetite (e) Hematite and Bauxite											
(10)	The	two most abundant elen	nents in sea	water ar	e:								
	(a)	Sodium and Potassium	(b)	Sodi	Sodium and Calcium			(c)	Sodi	um and Chlorine			
(11)	(d) An e	Chlorine and Iodine electric current can prod	(e) uce:	Magı	nesium a	and Sulph	ur						
	(a) (d)	Chemical effect All of these three	(b) (e)	_	netic eff e of thes			(c)	Heati	ing effect			

										\sim			
		KNOWLES unit of home el					SCIE	NCE)		Ch			
(14)			ectricity en		-		_	(.	·	100			
	(a) (d)	Watt hour Kilojoule hour	r	(b) (e)		att hour of these		(0	e) Jou	le M	25		
(13)		magnet always h poles, becaus	-	ne same dir	ection, i	f allow	ed to mo	ove freely	i.e. toward	le h	7.0		
	(a)	Gravitational f	field	(b)	A lot o	of meta	l deposit	ts on Nortl	n and Sout	h Poles			
	(c) (d)	Due to attracti Earth is a huge		h Pole and a		on of W		ole					
(14)		n sound is refle		floor, ceilin	g or a w	vall, it 1	nixes w	ith the orig	ginal sound	d and change	es its		
	(a)	Sound	(b) Echo	(c)	Reverl	beration	1	(d) Noise	e (e) 1	None of these	e.		
(15)	The	speed of sound	in dry air a	at 20 °C is a	ıbout:								
	(a)	130 meters per	-	(b)		eters pe	er secon	d (d	2) 330	meters per s	econd		
	(d)	430 meters per		(e)		of these		·		•			
(16)	The	speed of light in		s about:									
	(a)	300 Million m			(b)	300 M	Iillion m	neters per l	nour				
	(c)	300 Million ki	-		(d)			-		e) None of	these.		
(17)		time, light take:	•					٠	·	•			
` ′	(a)	8 minutes	(b) 25 m ²) 45 m		(d)	60 minut	es (e	e) None of	these.		
(18)	Ligh	t from the Sun	` ,	•			` ,		`	,			
`	(a) (d)	50 million Km 200 million K	1		(b) (e)	100 m	illion K of these	m (c	2) 150	million Km			
(19)	` ′	most suitable th		r for measu	` /								
(1)	(a)	Mercury therm		(b)	•		nometer			llic thermom	ieter		
	(d)	Liquid crystal		, ,		of these		() Billictu		ictor		
(20)		density of wate			Tione	or these	·•						
(=0)		-32 °C	(b) 0 °C	(c)	4 °C		(d)	100 °C	(e)	None of	these		
(21)	` ′	ch one of the fo	` '	, ,	_		(u)	100 C	(6)	Trone of	these.		
(==)	(a)	Gases do not c	=		uuo.	(b)	The h	est conduc	ctors are no	on-metals			
	(c)	Conduction cu			anids	(d)			ot conduct				
		None of the sta		•	10100	(4)	11,000						
(22)	` ′	an be changed											
()		Adding more v	•			(b)	Chang	ing the mo	otion of the	e water mole	ecules		
	(c)	Rearranging th			ecules	(d)	_	-		ater molecul			
	(e)	None of these.											
(23)	The	building blocks	of element	ts are called	d:								
	, ,	Atoms (b)	Molecules	, ,	Comp	ounds	(d)	Isotopes	(e) 1	None of these	e.		
(24)	Boili	ing of an egg is	a change v	vhich is:									
	(a)	Physical	(b) Ch	emical	(c)	Physic	ological	(0	d) Mor	phological			
	(e)	None of these.											
(25)		temperature of	liquid Nitro	ogen is:									
	(a)	-32 °C	(b) -80 °C	C	(c) -10	00 °C	(d)	-196 °C	(e)	None of	these.		
(26)	Whice (a) (e)	ch one of the fo Water None of these.	(b) Vi	an alkali? negar	(c)	Lemo	n juice	(0	l) Slak	ted lime			
(27)	` ′	alkali is slowly		an acidic so	dution t	he nH	of the ac	ridic soluti	ion will.				
(<i>=1)</i>	(a)	Increase	•	ecrease	(c)	-		and then d					
(d) Decrease to 7 and then increase (e) Will remain same.													

		KNOWLED							`	18	None of		
(28)	The	usual raw materi		_	erally fo			-			18		
	(a)	·	b) Silt		(c)	•	(d)	Plaster	of Paris	S	1911		
(29)	•	· ·			rs commonly known as:						12		
	(a)	•	` ′	Nylon	` '	Cellul	ose	(d)	Protein	(e)	None of		
(30)	•												
	` ′		. /	ileo	(c)	John E		(d)	Edison	(e)	Graham Bell.		
(31)	Info	rmation can be se		_	ne form of:								
	(a)	Electrical signal	_	wires (d)	(b)	_	_	through	-	l fibres			
	(c)	Radio waves the	Any co	ombinat	tion of	these thr	ee	(e)	None of these.				
(32)	Info	rmation can be st											
	(a)	Audio and video		(b)		y and co	-	discs	(c)	Hard disks			
		Laser and optical	al disks	(e)	All of	these fo	our.						
	Computers can:												
	(a) Add and subtract information only (b) Add, subtract and sort information only												
	(c) Add, subtract, sort and classify information (d) Add and subtract but cannot sort information												
(24)	(e) Add, subtract and sort but cannot classify information.IBM stands for:												
` ,	(a)	International Bu	ohinos	(b)	Intorna	otional	Dia Mac	hinas					
	` ′				, ,			Big Mac		(e)	None of these.		
(35)	(c) Interrelated Business Machines (d) Interrelated Big Machines Chemicals used to kill weeds are called as:								iiiies	(e)	None of these.		
(33)	(a)	Insecticides	(b)	Fungi			(c)	Herbic	idas				
	(d)	Fumigants	(e)	_	of these		(C)	Heroic	lues				
(36)	, ,	cytoplasm consis	` ′	al types o	f structu	ires, wh	ich are	called:					
` ,	(a)	Protoplasm	(b)	Nucle		,	(c)	Cytoch	nromes				
	(d)	Organelles	(e)	None	of these			·					
(37)	The	structure of DNA	was elab	orated by	Watson	and Cri	ck in:						
	(a)	1909	(b)	1923			(c)	1945		(d)	1953		
(=0)	(e)	None of these.											
(38)	In a DNA molecule, the rule for base pairing is:												
	(a) Adenine always bound with thymine and cytosine with guanine												
	(b) Adenine always bound with cytosine and thymine with guanine												
	(c) Adenine always bound with guanine and cytosine with thymine												
	(d) Adenine always bound with uracil and cytosine with guanine												
(20)	(e)	None of these.	'1										
(39)		belongs to the fa	<u> </u>	(-)	M	1! .	(-1)	D 4		(-)	NI £ 41		
(40)	(a)	` ´	Hominidae	` ′	Mamn		(d)	Primat		(e)	None of these.		
(40)		ciency of vitamir			•		_			(a)	None of these.		
(41)	(a)	Beriberi (b) Ineasure the speci	Ū		(c)	Ricket	` ,	Scurvy	/	(e)	None of these.		
(41)	(a)	-		ometer	(c)			(d) Hydr	ometer	(a)	None of these.		
(42)	` ′	of the fundamen						(u) Hydr	ometer	(6)	None of these.		
(42)	(a)	Photosynthesis			(c)	_		l) Meta	holiem	(a)	None of these.		
(43)	` /	ts growing on oth			, ,	LACIE	1011 (0	ij micia	OOHSIII	(6)	rone of these.		
(43)	(a)	Saprophytes	(b) Par		(c)	Fninh	utes (.	l) Patho	gens	(e)	None of these.		
(44)	` ′	er eating habit, s	` '		(0)	Phihii	yus (C	ij i aliio	gens	(6)	rone of these.		
(77)	(a)		b) Herbi		(c)	Carniv	orous	(d)	Omnive	orone			
	(a) (e)	Insectivorous.	w, Helbl	, 01045		Carmy	orous	(u)		orous			

			OWLE						SCIE	NCE)	•	18	3	
(4:			from lea		_				tuonan	imatian	(4)	Dagnie	8	1
	(a) (e)	•	oration of these		ransp	oiration	(C)	Ечаро	-transp	iration	(u)	Respi	at	13.
(40	6) Th		of how p		nd anima	als inter	act witl	n one an	other a	nd with	the no	n-living	environ	2.0
			ystem (b) Soc	iology	(c)	Ecolo	gy (d)	Habita	at	(e)	None	of these.	
(4'			er of bon								(-)			
`	(a)		(b)			(c)	204	(d)	206	(e)	None	of these	·.	
(48	` ′		stem in	human	body co	` ′	of:	, ,		` /				
	(a)	(a) Brain and spinal cord (b) Brain and nerves (c) Spinal cord and nerves												
	(d)	Brair	n, spinal	cord an	d nerves	S	(e)	None	of these).				
(49	9) In 1	numan e	eye, the l	ight ser	nsitive la	ayer ma	de of sp	ecialize	ed nerve	e cells, t	the rod	s and co	nes is cal	lled as:
	(a)	The p	oupil (b) The co	ornea	(c)	The so	clera	(d)	The ir	is	(e)	The ret	ina.
(50	0) Ery	throcyt	es are als	so calle	d as:									
	(a)		olood cel	ls	(b)		blood		(c)	Plate	lets			
	(d)	Plasr	na		(e)	None	of these).						
							PART-	<u>-II</u>						
		(iii)	Extra consid	_	t of any	questi	on or a	ny part	of the	attemp	ted qu	estion w	vill not b	e
Q.2.		eld of s	note on th		wing M	uslim s				r exact	life spa	and co	ontribution (5 x 2 =	
	(a)		-bin-Hay				(b)	Bu Al	i Sina					
Q.3.			betweer	-					Talaga	ono (a)	Illtra	anias ar	(5 x 2 =	-
	(a) (d) (g)	Hard	oons and water ar gen and V	nd Heav	y water			-					nd Infras nd Antibi	
Q.4.	(a)		t is a gala	•		_		ch gala	xy?				(1	+1 = 2
	(b) (c)		ly descri ou think		_	_	•	of our s	olar svs	tem? If	ves. ho	ow and i	f not	(4
	(-)	why?					F				<i>J</i> ==, ==,			(1+3
Q.5.	(a)		cally how	•			y are the	ere? Als	so name	these.			(1	+1=2
	(b) (c)	(b) Enlist different types of energy.(c) Why are scientists trying to find alternate energy sources?												(4 (2
	(d)	Wha	t is a rene	ewable	energy s	source?	Quote	three ex	amples					(2
Q.6.	-		atural or		-	•			us types	s of plas	stics an	d their u	ses.	(10
Q.7.	(a)	(i)	t do the f LAN	(ii)	HTTP	(iii)	HTMI	L	(iv)	PDF	(v)	URL	•	5 = 5
	(b)	Diffe used	rentiate ?	betweei	n natura	l and ar	tificial s	satellite	s. For w	hat pur	pose a	rtificial s	atellites	are (5)
Q.8.	(a)	Wha	t is the m	ain fun	ction of	:							(1 x)	5 = 5
		(i)	Ribos	ome	(ii)	Mitoc	hondria	(iii)	Lysos	omes	(iv)	Chlore	oplasts	
		(v)	Golgi	apparat	tus									
	(b)	Give (i) (v)	habitats Rattle Chimp		owing ar (ii)	nimals: Ostric	h	(iii)	Platyp	ous	(iv)	Rhino		x 5 = 5)
Q.9.	Write	e short i	notes on	the foll	owing:-								(2 x	5 = 10
	(a)	Nucl	eic acids	(b) Fo	ertilizer	` ,	Semico	onducto	rs (d)	Microv	vave ov	ven (e)	Interne	t