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## COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2011 GENERAL KNOWLEDGE, PAPER-I (EVERYDAY SCIENCE)

Roll Number

THREE HOURS   (PART-I)   100 MINUTES   MAXIMUM MARKS: 50   NOTE: (i) First attempt PART-I (MCQs) on separate Answer Sheet which shall be taken back after 80 minutes.  (ii) Overwriting/cutting of the options/answers will not be given credit.  (PART-I MCQs) (COMPULSORY)  Q.1. Select the best option/answer and fill in the appropriate box on the answer sheet. (1 x 50 = 50   (1) The planet of the solar system which has maximum number of Moon is: (a) Jupiter (b) Venus (c) Saturn (d) Uranus (e) None of these.  (2) Sun is a: (a) Planet (b) Comet (c) Satellite (d) Aurora (e) None of these.  (3) The age of the solar system is: (a) 4.5 billion years (b) 5.5 billion years (c) 6.5 billion years (c) 6.5 billion years (d) 7.5 billion years (e) None of these.  (4) A unit of length equal to the average distance between the Earth and Sun is called: (a) Light year (b) Astronomical unit (c) Parsec (d) Parallax (e) None of these.  (5) An eclipse of the Sun occurs when: (a) The Moon is between the Sun and the Earth (b) The Sun is between the Earth and the Moon (e) None of these.  (5) The corone layer protects the Earth from rays sent down by the Sun: (a) Ultraviolet rays (b) Infrared rays (c) Gamma rays (d) Radioactive rays (e) None of these.  (6) 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: (a) Exosphere (b) Mesosphere (c) Stratosphere (d) Ionosphere (e) Troposphere (d) Ionosphere (f) The most abundant natural Iron Oxides are: (a) Igneous rocks (b) Sedimentary rocks (c) Metamorphic rocks (d) Acid rocks (e) Basic rocks.  (9) The most abundant natural Iron Oxides are: (a) Sodium and Potassium (b) Sodium and Calcium (c) Sodium and Chlorine (d) Chlorine and Iodine (e) Magnetite and Bauxite (10) The two most abundant elements in sea water are: (a) Sodium and Potassium (b) Sodium and Calcium (c) Heating effect (d) All of these three (e) None of these.		TIM	E AL	LOWED:	(PART-	I MCQs)	80 N	<b>IINUTE</b>	S		MA						
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<ul> <li>(d) Hematite and Magnetite</li> <li>(e) Hematite and Bauxite</li> <li>(10) The two most abundant elements in sea water are:</li> <li>(a) Sodium and Potassium</li> <li>(b) Sodium and Calcium</li> <li>(c) Sodium and Chlorine</li> <li>(d) Chlorine and Iodine</li> <li>(e) Magnesium and Sulphur</li> <li>(11) An electric current can produce:</li> <li>(a) Chemical effect</li> <li>(b) Magnetic effect</li> <li>(c) Heating effect</li> </ul>		<b>(9</b> )	The	most abunda	ant natura	l Iron Oxide	s are:										
<ul> <li>(10) The two most abundant elements in sea water are:</li> <li>(a) Sodium and Potassium</li> <li>(b) Sodium and Calcium</li> <li>(c) Sodium and Chlorine</li> <li>(d) Chlorine and Iodine</li> <li>(e) Magnesium and Sulphur</li> <li>(11) An electric current can produce:</li> <li>(a) Chemical effect</li> <li>(b) Magnetic effect</li> <li>(c) Heating effect</li> </ul>			(a)	(a) Magnetite and Pyrite				Iagnetite	and Ba	uxite	(c)	Hematite and Pyrite					
<ul> <li>(a) Sodium and Potassium</li> <li>(b) Sodium and Calcium</li> <li>(c) Sodium and Chlorine</li> <li>(d) Chlorine and Iodine</li> <li>(e) Magnesium and Sulphur</li> <li>(11) An electric current can produce:</li> <li>(a) Chemical effect</li> <li>(b) Magnetic effect</li> <li>(c) Heating effect</li> </ul>			( <b>d</b> )	Hematite a	nd Magne	etite (e)	Н	ematite a	nd Bau	xite							
(d) Chlorine and Iodine (e) Magnesium and Sulphur  (11) An electric current can produce:  (a) Chemical effect (b) Magnetic effect (c) Heating effect		(10)															
(11) An electric current can produce: (a) Chemical effect (b) Magnetic effect (c) Heating effect			(a)	Sodium and	d Potassiu	m <b>(b</b> )	S	odium an	d Calci	um	(c)	e) Sodium and Chlorine					
(11) An electric current can produce: (a) Chemical effect (b) Magnetic effect (c) Heating effect			(d)	Chlorine an	nd Iodine	(e)	M	Iagnesiur	n and S	ulphur							
( ) ( )		(11)			-	oduce:				-							
			(a) (d)			(b) (e)		_			(c)	Heati	ng effect				

(12) The unit of home electricity energy consumption is:														
(12)			ectricity	energy		•			,	,		•		
	(a) (d)	Watt hour Kilojoule hou	r		(b) (e)	Kilowa None o			(	c)	Joule 1	nour		
(13)	` ′	magnet always		n tha ca	` '				vyo frooly	ia to	words l	North and		
(13)		h poles, becaus		n uie sa	ine une	ction, n	anowe	ou to me	ove meery	1.6. 10	warus	Norm and	ļ	
	(a)	Gravitational 1			<b>(b)</b>	A lot o	f metal	deposit	s on Nort	h and	South I	Poles		
	(c)	•												
	(d)	Earth is a hug			(e) None of these.									
<b>(14)</b>	Whe	n sound is refle	ected fro	m floor	, ceiling	g or a w	all, it n	nixes wi	th the ori	ginal s	ound a	nd change	es its	
	comp	plexion, it is ca	lled as:											
	(a)	Sound	<b>(b)</b> E	cho	(c)	Reverb	eration		(d) Nois	e	(e) No	ne of these	e.	
<b>(15)</b>	The	speed of sound	in dry a	ir at 20	°C is a	bout:								
	(a)	130 meters per	r second	1	<b>(b)</b>	230 me	eters pe	r second	d (	c)	330 me	eters per s	econd	
	<b>(d)</b>	430 meters pe	r second	1	(e)	None o	f these	•						
<b>(16)</b>	The	speed of light i	n vacuu	m is abo	out:									
	(a)	300 Million m	neters pe	er secon	d	<b>(b)</b>	300 M	illion m	eters per	hour				
	<b>(c)</b>	300 Million k	ilometre	s per se	cond	<b>(d)</b>	300 M	illion ki	lometres	per hour (e) None of these.				
<b>(17)</b>	The	time, light take	s from t	he Sun t	to reach	n Earth i	s:							
	(a)	8 minutes	<b>(b)</b> 25	5 minute	es (c)	45 m	inutes	<b>(d)</b>	60 minu	tes	<b>(e)</b>	None of	these.	
<b>(18)</b>	Ligh	t from the Sun	travels a	a distanc	ce befor	re it reac	ches the	Earth:						
	(a)	50 million Km				<b>(b)</b>		illion K	`	c)	150 mi	llion Km		
	<b>(d)</b>	200 million K				` /		of these.						
(19)	The	most suitable th				•	_	-						
	(a)	Mercury thern			<b>(b)</b>			ometer	(	c) Bin	netallic	thermom	eter	
	( <b>d</b> )	Liquid crystal			(e)	None o	f these							
(20)		density of wate												
	` ′	-32 °C	<b>(b)</b> 0		(c)	4 °C		<b>(d)</b>	100 °C		(e)	None of	these.	
(21)		ch one of the fo			ents is t	rue?								
		Gases do not d					<b>(b)</b>		est condu					
	(c)	Conduction cu			•	luids	<b>(d)</b>	A vacu	ium can n	ot con	duct he	eat		
(22)	(e)	None of the sta			•									
(22)		an be changed		•			<i>a</i> )	CI.	1	,•	C .1	. 1		
	(a) (c)	Adding more Rearranging th				cules	(b) (d)	_	-			vater mole r molecul		
	(e)	None of these.		, III Waa	or more	cares	( <b>u</b> )	Destro	ying the t		iii wate	molecui	CS	
(23)	The	building blocks	s of elen	nents are	e called	:								
	(a)	Atoms (b)	Moleci	ıles	(c)	Compo	unds	<b>(d)</b>	Isotopes		(e) No	ne of these	e.	
(24)	Boili	ing of an egg is	a chang	ge which	ı is:									
	(a)	Physical	<b>(b)</b>	Chemic	cal	(c) Physiological (d) Morphological								
	(e)	None of these	•											
(25)	The	temperature of	liquid N	Vitrogen	is:									
	(a)	-32 °C	<b>(b)</b> -8	0 °C		<b>(c)</b> -10	0°C	<b>(d)</b>	-196 °C		(e)	None of	these.	
(26)	Whi	ch one of the fo	ollowing	is an al	kali?									
	(a)	Water	<b>(b)</b>	Vinega	r	(c)	Lemon	juice	(	d)	Slaked	lime		
(25)	(e)	None of these		4 -	: 1' '	14•		. C . 1	tat t		11.			
(27)	If an <b>(a)</b>	alkali is slowly Increase	( <b>b</b> )	to an ac Decrea			-							
	(d)	Decrease to 7	` '			<ul><li>(c) Increase to 7 and then decrease</li><li>(e) Will remain same.</li></ul>								

GENE	RAL	KNOWLE	DGE,	<b>PAPE</b>	CR-I (E	VERY	<b>YDAY</b>	SCIE	ENCE)				
(28)	The	usual raw mate	erial for	ceramio	cs, gene	rally for	und ben	eath th	e top so	il is?			
	(a)	Sand	( <b>d</b> )	d) Plaster of Paris (e) Mel									
(29)	Poly	amides are syn	thetic p	olymers	s comm	only kn	own as:						
	(a)	Synthetic rubb	oer	<b>(b)</b>	Nylon	(c)	Cellulo	ose	<b>(d)</b>	Protein	(e)	None of	these.
(30)	Tele	phone was inve	ented in	1876 ir	n Ameri	ca by:							
	(a)	Marconi	<b>(b)</b>	Galile	0	(c)	John B	eard	Edison	(e)	Graham	Bell.	
(31)	Info	rmation can be	sent ov	er long	distance	es in the	form o	f:					
	(a)	Electrical sign	als thro	ough wi	res	<b>(b)</b>	Light s	signals	through	optical f	fibres		
	(c)	Radio waves	through	air	<b>(d)</b>	Any co	ombinat	ion of	these th	ree	(e)	None of	these.
(32)	Info	rmation can be	stored i	in:									
	(a)	Audio and vic	leo cass	ettes	<b>(b)</b>	Floppy	and co	mpact	discs	<b>(c)</b>	Hard o	disks	
	( <b>d</b> )	Laser and opt	ical disl	ks	(e)	All of	these fo	ur.					
(33)	Com	puters can:											
	(a)	Add and subtr	act info	rmatior	n only	<b>(b)</b>	Add, s	ubtract	and sor	t informa	ation o	only	
	(c)	Add, subtract	, sort an	d classi	ify infor	mation	<b>(d)</b>	Add a	ınd subtı	ract but c	annot	sort infor	nation
	<b>(e)</b>	Add, subtract	and sor	t but ca	nnot cla	assify in	formation	on.					
(34)	IBM	stands for:											
	(a)	International l	Busines	s Machi	ines	<b>(b)</b>	Interna	itional	Big Ma	chines			
	<b>(c)</b>	Interrelated B	nes	<b>(d)</b>	Interrelated Big Machines (e) None of the								
(35)	Chei	nicals used to	kill wee	ds are c	alled as	:							
	(a)	Insecticides		<b>(b)</b>	Fungio			<b>(c)</b>	Herbio	cides			
(2.0	(d)	Fumigants		(e)		of these							
(36)		cytoplasm con	sists of		• -		res, whi						
	(a) (d)	Protoplasm Organelles		(b) (e)	Nuclei	us of these		<b>(c)</b>	Cytoc	hromes			
(37)	1 /	structure of DN	JA was					ek in:					
(31)	(a)	1909	VII was	(b)	1923	v atson	and Cir	(c)	1945		( <b>d</b> )	1953	
	(e)	None of these	·	(0)	1)23			(C)	1743		(u)	1733	
(38)	In a	DNA molecule	, the ru	le for ba	ase pairi	ing is:							
	(a)	Adenine alwa	ys boun	d with t	thymine	and cy	tosine w	ith gu	anine				
	<b>(b)</b>	Adenine alwa	ys bour	nd with	cytosine	e and th	ymine w	vith gu	anine				
	(c)	Adenine alwa	ys bour	nd with	guanine	and cy	tosine w	ith thy	mine				
	( <b>d</b> )	Adenine alwa	ys bour	nd with	uracil aı	nd cytos	sine witl	h guan	ine				
	<b>(e)</b>	None of these	·.										
(39)	Man	belongs to the	family:										
	(a)	Felidae (b)	Homi	nidae	(c)	Mamn	nalia	(e)	e) None of these.				
(40)	Defi	ciency of vitan	nin C in	the hur	nan bod	ody causes a deficiency disease called:							
	(a)	Beriberi (b)	Night	blindne	ess	(c)	Ricket	s ( <b>d</b> )	Scurv	y	(e)	None of	these.
(41)	To n	neasure the spe	cific gr	avity of	milk, th	ne instru	ıment us	sed is:					
	(a)	Hygrometer	<b>(b)</b>	Baron	neter	(c)	Lacton	neter (	<b>(d</b> ) Hydr	rometer	(e)	None of	these.
(42)	One	of the fundame	ental ch	aracteri	stics of	living o	rganism	s is:					
	(a)	Photosynthesi	s <b>(b)</b>	Digest	tion	(c)	Excret	ion (d	l) Meta	bolism	(e)	None of	these.
(43)	Plan	ts growing on o	other pla	ants are	called a	as:							
	(a)	Saprophytes	<b>(b)</b>	Parasi	tes	<b>(c)</b>	Epiphy	tes (	d) Patho	gens	(e)	None of	these.
(44)	As p	er eating habit,	, squirre	els are:									
	(a) (e)	Frugivorous Insectivorous		Ierbivor	cous	(c)	Carniv	orous	<b>(d)</b>	Omnivo	orous		

(4	5)	Wate	er loss	from l	eaves	s thro	ugh sto	mata i	s called	as:							
		(a)	Evapo	ration	(b)		Transp	oiration	(c)	Evar	o-tra	anspir	ation	<b>(d)</b>	Respir	ation	
		<b>(e)</b>	None	of the	se.												
(4	6)		study o	of how	plan	ts and	l anima	als inte	ract wit	n one a	noth	ner an	d with	the no	n-living	environn	nent is
		(a)	Ecosy	stem	<b>(b)</b>	Socio	ology	(c)	Ecolo	gy (d	) H	abitat		(e)	None	of these.	
(4	7)	The	numbe	r of bo	ones i	n hun	nan bo	dy is:									
		(a)	200	<b>(b</b> )	) 20	)2		(c)	204	<b>(d)</b>	20	06	(e)	None	of these	·•	
(4	8)	Nerv	ous sy	stem i	n hur	nan b	ody co	nsists (	of:								
		(a)	Brain	and sp	oinal	cord	<b>(b)</b>	Brain	and ner	ves	(c	:)	Spinal	cord a	nd nerve	es	
		<b>(d)</b>					nerves		(e)			these.					
(4	9)	In hu	ıman e	ye, the	eligh	t sens	itive la	yer ma	ade of sp	peciali	zed r	nerve	cells, t	he rods	and co	nes is call	led as:
		(a)	The p	upil (	<b>(b)</b> T	he coi	rnea	(c)	The so	elera	(d	<b>l</b> )	The iri	is	<b>(e)</b>	The reti	na.
(5	<b>(0</b> )	Eryt	hrocyte			alled	as:										
		(a) (d)	Red b Plasm		ells		(b) (e)		e blood of these		(c	e)	Platel	ets			
									<b>PART</b>	<u>-II</u>							
	N	OTE	: (i)	PAR	T-II	is to l	be atter	npted (	on separ	ate Ar	iswe	r Boo	k.				
			(ii)	Atte	mpt (	ONL	Y FIVI	E ques	tions fr	om PA	RT	-II. A	ll ques			QUAL m	
			(iii)	Extra consi		_	of any	questi	ion or a	ny pa	rt of	the a	ttemp	ted qu	estion w	ill not be	e
				COHS	iuere	u.											
Q.2.						follow	ing M	uslim s	scientist	s by gi	ving	their	exact l	ife spa	n and co	ontributio	
		ne fie a)	ld of so	cience: -bin-H					<b>(b)</b>	Bu A	li Çi	ina				$(5 \times 2 =$	10)
Q.3.	`				•		VF of t	he foll	owing p		III SI	ııa	L			$(5 \times 2 =$	. 10)
2.5.		a)		oons a		•			<b>-</b> 1		d Te	lescor	oe (c)	Ultras	sonics ar	nd Infrasc	
	/ /	d)	Hard	water	and I	leavy			sotopes							id Antibio	
		g)		en and													
Q.4.		a) b)		_	_		Earth is big b	_	s to whi	ch gal	axy?	?				(1-	+1 = 2) $(4)$
		c)		•			_	_	•	of our	solaı	r syste	em? If	yes, ho	w and it	f not	()
<b>.</b> -	,	`	why?			0		c		2.4						/4	(1+3)
Q.5.	,	a) b)		-		•	orms of of energ	_	y are the	ere? A	lso n	name t	these.			(1-	+1 = 2) $(4)$
		c)					•		ernate e	nergy	sourc	ces?					(2)
	,	d)							_			-			energy s		(2)
Q.6.		-					-	-			ous t	types	of plas	tics and	d their u	ses.	(10)
Q.7.	(8	a)	What (i)	do the		_	g abbre <sup>.</sup> HTTP		s stand: HTM		(i <sub>'</sub>	v)	PDF	(v)	URL	(1 x	5 = 5)
	a	<b>b</b> )			`			` ′			-	•				atellites a	•
	(,	<i>o</i> ,	used?		0 000	***************************************	natara	una u	tillicial	3 <b>acc</b> 1111	<b>C</b> B. 1	or wi	iai pai	pos <b>e u</b> i	tirioiar s	dicinies (	(5)
<b>Q.8.</b>	(2	a)	What	is the	main	func	tion of:	:								(1 x	5 = 5)
			(i)	Ribo	osom	e	(ii)	Mitoc	hondria	(iii)	L	ysoso	mes	(iv)	Chlore	oplasts	
			<b>(v)</b>	Golg	gi app	oaratu	ıs										
	(J	<b>b</b> )	Give	habita	ts of	follov	ving an	imals:								(1 x	5 = 5)
			(i)		le sna		(ii)	Ostric	ch	(iii)	Pl	latypu	IS	(iv)	Rhino	ceros	
<b>7</b> 0	**	17m24 =	(v)		npan											<b>(2</b> =	E _ 10\
Q.9.			short n				Ū	· (a)	Semico	andust	ore	(d) N	Aioror.	10110 011	on (a)	•	5 = 10
	(:	a)	inucie	ac aci	13 (II	, rei	rtilizers		*****		UIS	(u) N	VIICIOW	ave ov	en ( <b>e</b> )	Internet	

**GENERAL KNOWLEDGE, PAPER-I (EVERYDAY SCIENCE)**