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FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2009

S.No.	
R.No.	

COMPUTER SCIENCE

TIME	ATTO	web.	(PART-I)	30 MINU	ΓES			MAXIMUM MA	ARKS:20		
I IIVIE	ALLU	WED:	(PART-II)	2 HOURS	8 & 30 MIN	NUTES	8	MAXIMUM MA	ARKS:80		
NOTI	E: (i)	First	attempt PAR'	T-I (MCO)	on separate	Answ	ver She	eet which shall be take	en back		
1,011	L (1)		30 minutes.	1 1 (1110 Q)	on separate	7 1 1 1 1 5 1 1		oc willon shall be talk	in odek		
	(ii)	Over	writing/cutti	ng of the op	tions/answ	ers wi	ll not b	e given credit.			
				PAI	RT – I (M	(CQ)					
					MPULS(
Q.1.	Sele	ct the bo	est option/ans					x on the Answer She	et. (20)		
(i)	AX	_	is also known	as:							
	(a)	Accum		` ′	Collector			(c) Distributor			
	(d)	Counte		` '	None of the						
(ii)		In the Base + Offset addressing, Offset address is also known as:									
	(a)	•	al Address	, ,	Logical A			(c) Actual Address			
(iii)	` ′	(d) Instruction Address (e) None of these The technique for allowing a unit to check the status of another independently function uni									
(111)		vn as?	ic for allowin	ig a unit to	CHECK THE	status	or ano	mer macpenaemry ru	netion unit is		
	(a)	Interru	pt.	(b)	System ca	11		(c) Polling			
	(d)	Trape	F -	, ,	None of the			(1) 1 38			
(iv)	The	-	for storing da	ita temporar	ily such tha	at the i	nput-oi	utput of the same job	is overlapped		
	with	its own	processing, is	known as:							
	(a)	Spooli	_	` ′	Contentio			(c) I/O wait			
	(d)	Bufferi	_	` '	None of the						
(v)			at uses Busses				is tern		_		
	(a) (d)	Shared		, ,	Cycle Ste None of the	_		(c) Channel			
(vi)	(u)		arent DMA Scheduler des	` '			whether	to admit another ne	w job to the		
(11)	syste		Scheduler det	dis with the	decision t	is to v	VIICTICI	to definit unother ne	w job to the		
	(a)	High L	evel	(b)	Medium I	Level		(c) Low Level			
	(d)	Short to		(e)	None of the	nese					
(vii)		_	ocess is in the	e states of B	locked Sus	pende	d or Re	eady Suspende <mark>d, i</mark> ts re	elevant data is		
	store	ed in:									
	(a)		I emory	` '	Hard Disk			(c) Magnetic Tape			
(*****)	(d)	Buffer	(Time Weitir	` '	None of the		a waad :	to colouloto micrity is	•		
(viii)	iii) Priority, P = (Time Waiting + Run Time) / Run Time is used to calculate priority in scheduling algorithm:							1			
		_	Job First	(h)	Priority S	chedul	ino	(c) Longest Wait F	irst		
			Response Rati		•		5	(c) Longest Wart I	1150		
(ix)		_	col stands for								
` '	(a)	High-L	evel Data Lin	k Control	(b)	High	Level I	Development Protocol	l		
	(c)		Level Data Lin	ık Control	(d)	High	Develo	opment Level Control			
	(e)	None o									
(x)	~		_				•	the International Co			
			-	-		sage H	landling	g Systems; i.e. Electro	ınıc Mail.		
	(a) (d)	TCP/IF X.25	,	` ′	ISDN None of the	1000		(c) X.400			
(xi)	(u)		ver is resnons	, ,			et of da	nta along one link in t	he network. It		
(111)	layer is responsible for the transfer of a packet of data along one link in the network organizes data into frames and detects errors in transmission.								ne network. I		
	(a)		al Layer		Data Link			(c) Network Layer			
	(d)	Transp	ort Layer	(e)	None of the	nese		· , ,			
(xii)								ormat into an unintel			
			-		_		tood if	read by an unauthoriz	ed party.		
	(a)	Clear T		` '	Encrypted			(c) Cipher Text			
	(d)	Coded	Text	(e)	None of the	nese					

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(xii	i)]	Binary search requires about comparisons with an initial list of 1,000,000 elements.	
		(a) 10 (b) 20 (c) 35 (d) 100 (e) None of these	
(xiv		A header list is a header list where the last node contains the null pointer.	
,		(a) Grounded (b) Circular (c) One way (d) Rooted (e) None of the	
(xv		are small applications that are accessed on an internet server, transported over	the
		internet, automatically installed and run as part of a web document.	
,		(a) Applets (b) Java Bean (c) Sockets (d) Java Component (e) None of the	iese
(xv	/	AWT stands for:	
		(a) Abstract Window Technique (b) Abstract Window Toolkit (c) Actual Window Technique	ıe
,		(d) Added Window Toolkit (e) None of these	
(xv		GIF images can have only upto colors.	
,		(a) 128 (b) 256 (c) 512 (d) 1024 (e) None of the	se
(XV	,	is stored on a client and contains state information of the website visited.	
, .		(a) Cookies (b) Servelet (c) History (d) Resident Page (e) None of the	se
(xix		In software Engineering KPA denotes.	
		(a) Key Process Audit (b) Key Process Area (c) Key Process Analysis	
		(d) Key Problem Area (e) None of these	
(xx		The Process Model defines a series of events that will trigger transitions from state	e to
		state for each of software engineering activities.	
		(a) Spiral (b) Operational (c) RAD	
	((d) Concurrent Development (e) None of these	
		<u>PART – II</u>	
		(i) PART-II is to be attempted on the separate Answer Book.	1
		(ii) Attempt ONLY FOUR questions from PART-II, selecting at least ONE question	
NOT	E.	from each SECTION. All questions carry EQUAL marks.	
1101	L.	(iii) Extra attempt of any question or any part of the attempted question will not be	
		considered.	
		<u>SECTION – I</u>	
Q.2.	Exp		20)
	(i)	Cache Memory (ii) Static & Dynamic RAM (iii) Instruction Cycle	
`	(iv)	Buses & their types (v) Segment Registers (vi) Instruction Pipelining	
Q.3.	(a)	Describe briefly five state process lifecycle	(6)
Q.S.	(b)		(6)
	(c)		(8)
	(0)		(0)
		SECTION - II	
Q.4.	(a)	What are Virtual Functions? And how they can be utilized for polymorphism?	
	` /	• • • • • • • • • • • • • • • • • • • •	(01
	(b)		(0)
	` /	(i) Inheritance & Aggregation (ii) Data Hiding & Encapsulation	
		(iii) Constructors & Destructors (iv) Class, Object and Abstraction	
0.5	(0)		(Q)
Q.5.			(8) (2)
	(b)	<u>. </u>	L <i>Z)</i>
		(i) Stack & Queue (ii) Tree & Graph (iii) Linked List & Array	
		(iv) Algorithm & Program (v) Complexity of Algorithm	
Q.6.	(a)	Explain the terminologies of Process, Methods and Tools.	(6)
	(b)	What is Software Process Model? Explain Spiral Process Model. (1	(4)
		SECTION III	
		<u>SECTION – III</u>	
Q.7.	(a)	What is a Database? Explain and differentiate Relational Database Model from the	
		other Database Models. (1	(0)
	(b)	Explain with example Entity Relationship Diagram. (1	(0)
0.6	` ′		
y.o.	-		20)
	(i)	Computer Graphics (ii) Pixel Art (iii) Vector Graphics Computer Animation (v) Pandering (vi) 2D & 3D Graphics	
	(iv)	Computer Animation (v) Rendering (vi) 2D & 3D Graphics	
