SCHEME & SYLLABUS OF EXAMINATION OF PART-I FOR POST NO. 2

PROGRAMMER

Part	Section	Subject/Syllabus	No. of questions	Maximum Marks	Qualifyin g Marks
			60	180	72
Part-I	Section 'A'	Reasoning/Quantitative Aptitude	20	60	-
	Section 'B'	 General Knowledge & General Knowledge of Rajasthan: Events of State, National and International importance Geography and Natural Resources of India and Rajasthan Agricultural, Social and economic development of India Rajasthan Indian Medieval History, Indian struggle for Independence,, and History of Rajasthan Culture and heritage of India and Rajasthan 	30	90	
		General Science: 1 Floments Mixtures and Compounds			
		 Elements, Mixtures and Compounds Physical and Chemical Changes; Oxidation and 			

	Reduction: Catalysis	
3.	Metals and Non Metals	
4.	Acids, bases and Salts	
5.	Reflection of light and its laws, lenses, human	
	eye, defects of vision and its correction	
6.	Electric current, Electric potential, Ohms law,	
	electric cell and Electric motor	
7.	Human Brain, hormones, human diseases and	
	cure	
8.	Economic importance of animals and plants	
9.	Biomass, sources of energy, ecosystem,	
	Mendel's Law of inheritance, chromosomes	
10.	Human blood groups, blood transfusion,	
	Deficiency diseases and cure	
• Ba	sic Computer Skills:	
1.	Introduction to Computers	
	Computer Systems	
3.	Uses of Computers	
4.	Introduction to the Internet & Search Engines,	
	Internet Applications	
5.	Operating system,	
6.	MS Word Advance	
7.	Database Management System	
8.	MS Excel Advance	
9.	MS Power Point Basics	
10	. Microsoft Outlook-Basics	

Section 'C'	Language Comprehension	10	30	
	• Hindi			
	 शब्द रचनाः संधि एवं संधि विच्छेद, समास, उपसर्ग, प्रत्यय शब्द प्रकारः तत्सम, तत्भव, अर्धतत्सम, देशज, विदेशी, संज्ञा, सर्वनाम, विशेषण, क्रिया, अव्यय शब्द ज्ञानः पर्यायवाची, विलोम, शब्द युग्मो का अर्थभेद, वाक्यांश के लिए सार्थक शब्द, संश्रुततभिन्नार्थक शब्द, समानार्थी शब्द, उपयुक्त शब्द चयन, संबंधवाची शब्दावली शब्द शुद्धि व्याकरणिक कोटियाँ: परसर्ग, लिंग, वचन, पुरुष, काल, वृत्ति, पक्ष, वाच्य वाक्य रचना वाक्य रचना वाक्य शुद्धि विराम चिन्हो का प्रयोग मुहावरे/ लोकक्तिया पारिभाषिक शब्दावली: प्रशासनिक/ विविध 			
	• English			
	1. Use of articles and determiners			
	2. Tenses/ sequence of tenses			
	3. Active and passive voice			
	4. Direct and Indirect Narration			
	5. Use of Prepositions			

6	. Synonyms and antonyms		
7	. Comprehension of passage		
8	. Idioms and Phrases		
9	. Letter writing: Official, Demi-official. Circulars		
	and Notices		

POST NO.2. PROGRAMMER

SCHEME AND SYLLABUS OF EXAMINATION OF PART-II

Part	Section	Subject/Syllabus No. of questions				mum rks
Part-II	Section 'A'	Computer Basics: Components of a Computer System -CPU, Motherboards, Primary Storage Devices, Secondary Storage Devices, On-Line form Entry, direct data entry, Data base, Types of Computer input/Output, PDA's, computer hardware Basics Operating System: System Software, Operating System, Operating Systems for Larger Systems, their System Software, General Purpose Software/Utilities, Application Software, All types of Mobile OS Data Base Management System & Data Mining: Concepts related to Data, Data processing, File organizations, Data Base Management Systems, Types of Database, Database Structures, Data Base Components, Structure of DBMS, RDBMS, Structured Query Language and Other Query Languages, Storage, Documentation and Program Library, Backup, and Recovery, Data Warehouse, Data Mining, data Security, Internet, Data center	90	40	270	120

Part	Section	Subject/Syllabus	No	. of	Maxi	mum
			ques	tions	Ma	rks
		Internet & Web Tools:				
		Computer Programming Languages (C, Java, PHP, Dot net,				
		Python, Java Script, SQL, HTML, VB Net), HTTP, Internet.				
		Electronic Data Interchange (EDI), Electronic Fund Transfer				
		(EFT), Types of Electronics payments, Risks and Security				
		Considerations, & Commerce, E-Commerce				
	Section 'B'	Operation & Maintenance of RDBMS:		50		150
		Installing Oracle Database Software, My SQL, MS SQL, DB 2,				
		MS Access, Creating an Oracle Database, my SQL, MS SQL,				
		DB 2, MS Access, Managing the Oracle Instance, Managing				
		Database Storage Structures, Administering User Security,				
		Managing Schema Objects, Managing Undo Data, Configure				
		undo retention, Implementing Oracle, PL-SQL, MySQL, MS				
		SQL, DB 2, MS Access Database Security Configuring Network				
		Environment, Performing Database Recovery and Flashbacks,				
		Configuring Recovery Manager, Monitoring and Managing				
		Storage, Database Environment, Database development base,				
		Database analysis, Enhanced ER model and business rules,				
		Database Design, Database implementation, client server				
		database environment, internet database environment, data				
		ware housing, Advanced DBMS				

Part	Section	Subject/Syllabus	No. of	Maximum Marks	
			questions		
		Programming Language & Practical Implementation:			
		Programming Languages, Programming Process, Analysis-			
		Flowcharts, Program Flowcharts-Data Sources, Algorithms,			
		Flowcharting, Dry Run and Debugging the Program, SQL			
		statements and the extraction of data from the source			
		database, online Google and Excel sheets development, Static			
		and Dynamic Website development, PPT/Excel/Word advance			
		uses, concept of AI and machine learning, Programming			
		languages-Python programming, control structure, exception			
		handling, Web technologies, software Engineering, system			
		design & analysis, digital logic, JAVA programming, OS,			
		computer architecture, analysis and design of algorithm, cloud			
		computing, C language program and its various functions,			
		pointers.			

Note: Only those candidates, who have qualified the written examination, will be called for Proficiency test.

The number of candidates called for Proficiency Test would be three/five times the number of vacancies advertised for the post but in the said range although candidates who secure the same percentage of marks shall be included.

Proficiency Test	Subject	Duration	Maximum Marks	Qualifying Marks
	As per syllabus of written	3 Hours	100	40
	examination			