

Secondary School Certificate (SSC)

Examination syllabus Computer Science IX

Based on Provincial revised curriculum (Sindh)

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PREFACE

Ziauddin University Examination Board (ZUEB) was established by the Sindh ACT XLI 2018, with the aim of improving the quality of education. The Board administers examinations for the Secondary School Certificate (SSC) and Higher Secondary School Certificate (HSSC) based on the latest Reviewed National Curriculum by Directorate Curriculum Assessment and Research (DCAR) Sindh. ZUEB has a mandate by Ordinance to offer such examination services to English /Urdu and Sindhi medium candidates for SSC and HSSC from private schools in Sindh. This examination syllabus exemplifies ZUEB's commitment to provincial educational goals

The Examination Board has prepared with the help of subject professors, subject wise syllabus. It is important to make the difference between syllabus and curriculum. The syllabus of a subject is considered as a guide for the subject teacher as well as the students. It helps the students understand the subject in detail. It also helps students to anticipate what is expected from them while preparing for the exams.

This examination syllabus brings together all those cognitive outcomes of the Provincial Curriculum statement which can be reliably and validly assessed. While the focus is on the cognitive domain, particular emphasis is given to the application of knowledge and understanding.

The examination syllabus is uploaded on the ZUEB website. This is done to help affiliated schools in planning their teaching. It is the syllabus, not the prescribed textbook which is the basis of the ZUEB examinations. In addition, the ZUEB examination syllabus is used to develop learning support materials for students and teachers. The examination board stand committed to all students who have embarked upon the SSC, and HSSC courses in facilitating their learning outcomes. Our examination syllabus document ensures all possible support.

On the Ziauddin University Examination Board website a tab e –resource is made available which provides resource material in all subjects both in text form in line with the curriculum and also videos on topics to give students access to learn at their own pace and own time. These 15 to 20 minutes videos are prepared around subject concept / topics. These videos are available to the students for revisiting a lesson taught by their teacher or watch it prior to the lesson and as a reinforcement strategy. The work on videos is in progress and new titles will be uploaded.

Please look out for the videos on the given website

Humbly Yours; Shahbaz Nasim Curriculum Coordinator

RATIONALE FOR THE REVIEWED PROVINCIAL CURRCIULUM

The process of revising the National Curriculum 2006 was initiated in August 2004 when newly elected government of Pakistan decided to introduce education reform in the country. The education reform process included the announcement of new National Education Policy. National Education Census and changing the curricula (Ministry of Education, 2009)

In reality, change in secondary school curriculum was initiated in 2006 and as result, scheme of studies for classes I to XII was reviewed and curriculum of 25 compulsory subjects.

The 18th Amendment to the constitution of Pakistan has reconfigured the federal and provincial relationship by abolishing the "concurrent legislative list". The Act (2010) provides the provinces with strong legislative and financial autonomy in education, health, and other social sectors. Major implication of the 18th Amendment for education is that the curriculum, syllabus, planning, policy, centres of excellence and standards of education will fall under the purview of the provinces. This was a big step forward for education.

In Sindh the Curriculum review team was assigned a task by the School Education Department, Government of Sindh to review the National Curriculum 2006 for all subjects and prepare a revised version that best suits the needs of the students teachers and meets the spirit of the 18th amendment.

Subject wise curriculum review committees were formed. Curriculum review team critically examined the contextual and textual parts and aligned the different sections horizontally and vertically of the Curriculum. The Bureau of Curriculum (BOC) played vital role in organizing the workshops and meetings at Hyderabad for the completion of task. The positive support from a number of educationists, researchers and teachers helped in completing the mammoth task of curriculum revision.

On the DCAR website <u>http://dcar.gos.pk/BoC_Other_Pages/curriculum_dev.html</u> the national curriculum as well as the revised curriculums are all placed for easy reference.

The Ziauddin University Examination Board Examination syllabi for SSC and HSSC are prepared with the Sindh Revised curriculum. Up till now following subject text books have been developed as per the revised curriculum.

AIMS AND OBJECTIVES:

The design of the curriculum combines theory and practice into a learning experience. It will enhance the knowledge and skills of the students about the computer and information technology. They will learn to use computers effectively and incorporate the idea of algorithmic thinking into their daily life problems. The students will be able to acquire information from electronic resources in a variety of formats.

Framework of Curriculum

Competencies, standards, benchmarks and student learning outcomes (SLOs) formulate the structure of Curriculum for Computer Science for Grade IX-X. This curriculum framework provides a comprehensive image of the curriculum

Competency:

Competencies or strands are the key learning area that student will accomplish and learn

Standard:

The standard defines the competency by specifying broadly, the knowledge, skills and attitudes that students will acquire, should know and be able to do in a particular learning area during twelve year of schooling.

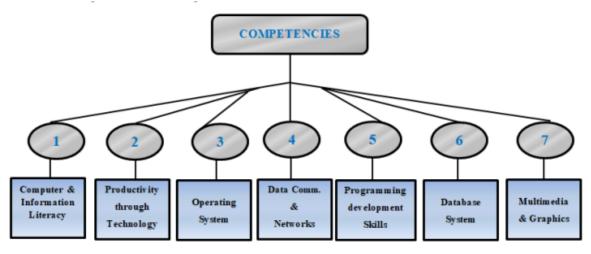
• Benchmark:

The benchmark further elaborates the standards, indicating what the students will accomplish at the end of each developmental level in order to meet the standards.

Student Learning Outcome:

Student Learning Outcomes (SLOs) are based on the knowledge, skills, abilities, and attitudes that students are intended to have achieved at the end of a unit. SLOs are measurable instructional goals established for a specific group of students over a set period of time. SLOs serve as one of the measures of student growth. These are built on the description of the benchmarks and describe what student will accomplish at the end of each grade.

Competencies of Computer Science Curriculum for Grade IX-X





EXAMINATION SYLLABUS WITH SCHEME OF ASSESSMENT

SLOS CATEGORIZATION AND SCHEME OF ASSSESSMENT UNIT 1 FUNDAMENTALS OF COMPUTER

Contents	Student Learning Outcomes	CATEGORIZATION T O S				TOS	5		
	Students will be able to:	Κ	U	А	MCQ'S	CRQ'S	ERQ'S		
1.1 Introduction to Computer 1.1.1 Evolution of Computers 1.1.2 Classification of Computers 0 Computers 1.1.2 Classification of Computers	 Demonstrate the understanding about the history of computers Outline the various generation of computers Classify the computers as per their size and technology used to date. 	*		*	4	1			
 1.2 Role of Computer 1.2.1 Use of Computers inVarious Fields 1.2.2 Careers in IT and ComputerScience: 	 Explain the uses of computers in differentfields of life Tell about scope of the different careers in IT sector: Software Engineer, Network Administrator, Database Administrator Web Designer Graphics Designer Information Security Analyst Teacher and others 	*							

 1.3 Computer hardware 1.3.1 System Unit 1.3.2 Input Devices 1.3.3 Output Device 1.3.4 Storage Devices 	 Describe computer hardware Explain the function of different parts ofsystem unit like: Motherboard Processor Differentiate between various inputdevices Recognize different output devices Differentiate between: Primary memory Secondary memory Classify different hardware devices as pertheir functionality 	*	* *	*		
1.4 1.4 Basic operations of computer	 Understand the basic op erations of computer: Input operation Processing operation Storage operation Output operation Differentiate among the four basic operations of computer Draw the block diagram of computer's basicoperations 		*	*		
 1.5 Computer Software 1.5.1 System Software Operating System Device drivers Utility programs Language processors 1.5.2 Application Software Productivity software Business software Entertainment software Education software 	 Develop the understanding about computer software Recognize various types of system software. List out the names of different application software's 	*	*	*		

	Contents	Student Learning Outcomes	CATEGORIZATION			TOS			
		The students will be able to:	K	U	Α	MCQ'S	CRQ'S	ERQ'S	
of S: 2.1.1 Me: man I/O File Res Ma: 2.1.2 Cor Inte	f Operating ystem(OS) Functions of OS: mory nagement management es Management cource nagement ers Management Types of OS Interface mmand Line erface(CLI) caphical User	 Define OS Develop the understanding about different functions of OS Distinguish among the various types of interfaces of OS 	*	*	*	2	1	1	
2.2 T 0	terface (GUI) ypes of perating ystem Single User and Multi-User OS Batch Processing OS Time Sharing OS Real Time Processing OS	 Discuss different types of OS Differentiate among the various types of operating systems 		*					
	oftware Ilation Install Windows Operating System Install Office Automation Software Install Antivirus	 Apply installation process of Windows operating system and other software in a computer Demonstrate the installation process of Windows Operating System and other software Apply installation process of any antivirus in a computer 							

UNIT 2 FUNDAMENTALS OF OPERATING SYSTEM

UNIT 3 OFFICE AUTOMATION

Contents	Student Learnin g Outcom es	CATEGORIZATION			ΤΟS		
	The students will be able to:	Κ	U	А	MCQ' S	CRQ' S	ERQ' S
 3.1.1 Page Layout TabThemes Page Background Paragraph Arrange 3.1.2 Insert Table of 	 Demonstrate Page Layout Tab of MS Word Identify the different groups of Page Layout Tab Apply different features available in groups of Page Layout Tab Insert manual and automatic table of contents in a document Compose in Urdu and Sindhi languages in MS Word 		* *	* * * *	1	2	2
3.2.1 Sorting 3.2.2 Formulas	 Review the basics of MS Excel Identify the Elements of MS Excel User Interface 	*	*				
3.2.3 Charts	Display data with Charts			*			

Contents	Student Learning Outcomes	CATEG	ORIZATI	ION	N TOS		
	The students will be able to:	K	U	А	MCQ'S	CRQ'S	ERQ'S
Contents4.1 Basics of Commun ication4.1.1 Define the following 	Outcomes	K *	I			CRQ'S	ERQ'S
e							
 4.1.3 properties of a good communication system Delivery 							
AccuracyTimeliness							

UNIT 4 DATA COMMUNICATION AND COMPUTER NETWORKS

 4.2 Transmission Medium 4.2.1 Guided Media 4.2.2 Unguided Media 4.2.3 Transmission impairments Attenuation Distortion Noise 	 Develop the understanding about the transmission medium Recognize with different types of guided and unguidedmedia Explain different types of guided media: Twisted pair cable Coaxial cable Fiber optic cable Describe various types of unguided media: Radio Waves Microwave Infrared Satellite Differentiate between guided and unguided media Describe the different 	*	*	
 4.3 Communication Devices 4.3.1 Switch/Route r 4.3.2 Modem Dial-up modem DSL modem ISDN modem 	 types of flaws and faults intransmission signals. Define different communication devices Explain the function of router Differentiate among different types of modems Describe the function of 	*		
• ISDN modem 4.3.3 Network Interface Card	 switch/router Elaborate the functions of different communication devices 	r. f		

4.4 Basics of Computer Networks 4.4.1 Computer Network & Networking Types of Computer Networks Local Area Network (LAN) Metropolitan Area Network (MAN) Wide Area Network (WAN)	 Define the term computer network and networking Classify the network types on the basis of their characteristics 	*	*			
 4.5 Fundamental Topologies 4.5.1 Bus topology 4.5.2 Ring topology Star topology 	 Define the term network topology Develop understanding about physical layout of bustopology Familiar with design constraints of ring topology Demonstrate the architecture of star topology Differentiate the network topologies according to theirdesign and physical layout 	*	*	*		
4.6 Standards Organizations	 List out the names of standards organizations: International Organization for Standardization (ISO) Institute of Electrical & Electronics Engineers (IEEE) Internet Engineering Task Force (IETF) International Telecommunication Union (ITU) American National Standards Institute (ANSI) andothers 		*			

4.7 Net Archit	ecture	Define network architectureMemorize the names of seven layers of	*			
	ISO's OSI	OSI's ISO model:				
1	model	\circ Application				
4.7.2	TCP/IP	\circ Presentation				
1	model	• Session				
		○ Transport				
		 Network 				
		 Data-link 				
		 Physical 				
		• Define the functions of all layers of OSI's ISO model				
		• Describe functions of Application,				
		Transport, Internet andNetwork layers of				
		TCP/IP model				
4.8 Net		Define network address	*			
Addres	ssing	• Differentiate between:		*		
4.8.1 I	IPV4	Physical address				
		Logical Address		. !		
		Describe IPV4 address		*		

UNIT 5 COMPUTER SECURITY AND ETHICS

Contents	Student Learning Outcomes	CATEGORIZATION			1	COS	
	The students will be able to:	K	U	А	MCQ'S	CRQ'S	ERQ'S
5.1 Computer Security 5.1.1 Importa nce of computer security 5.1.2 safegua rd agains t viruses, worms	 Explain the importance of computer security in daily life Define various terms related to computer security: Cyber crime Hacker Cracker Explain computer crimes by giving real-life examples Define computer virus and how to prevent them 	* *	*		2	3	3
5.2 Computer Viruses 5.2.1 Viruses 5.2.2 Ways of viruses spread 5.2.3 Antiviru s	 Adware Spyware Malware 	*	*	*			

 5.3 Authentication Mechanism 5.3.1 Types of Security mechanisms: Username and password Personal Identification Number (PIN) Biometrics 	 Describe the authentication mechanism List out the different authentication mechanisms Differentiate between username & password, personalidentification number and biometric authentication mechanisms
 5.4 Professional Ethics in computer field 5.4.1 Information Accuracy 5.4.2 Intellectual Property Rights 5.4.3 Software Piracy 5.4.4 Information Piracy 	 Explain the importance of professional ethics in computer field Define information accuracy Explain various types intellectual property rights: Patents Copyright Trademarks Explain software piracy and its impact on the security Mescribe the information privacy Discuss plagiarism

UNIT 6 WEB DEVELOPMENT

Contents	Student Learning Outcomes	CATEGORIZATION			r .	гоѕ	
	The students will be able to:	Κ	U	А	MCQ'S	CRQ'S	ERQ'S
6.1 Basic terminol ogy of Web Develop ment 6.1.1 Definition of terms: 6.1.2 Types of Web sites		K *	U *	A	MCQ'S	CRQ'S	ERQ'S 2
	BlogsForumsEntertainment						

 6.2 Introduction to HTML 6.2.1 Hypertext Markup Language (HTML) 6.2.2 Steps involved in Creating a HTML file 6.2.3 HTML Tags 6.2.4 Basic structure of HTML document 	 Develop the understanding about HTML language Apply the various steps involved in creating a web page 	2	k
HTML tagHead SectionBody Section	 Develop understanding about HTML tags Recognize the basic structure of a HTML document 	*	k
 6.3 Text Formatting 6.3.1 Titles and Footers 6.3.2 Paragraph and Line break tags 6.3.3 Heading Styles tags 6.3.4 Text formatting tags Bold Italic Underline Pre Font Size Font Color Font Face Centre Subscripted text Superscripted text 	 Use Title and Address tags for inserting title and footer in aWeb Page. Compose a paragraph in a webpage Use line break tag for starting the text from new line. Use different text formatting tags like bold, italic, underline and etc. Apply Pre-tag for preserving both spaces and line breaks Change text color, face Align the portion of text in center of web page Write subscript and superscript text in a web page 	*	

6.4 Creating Lists	Differentiete emene unerdered	*		
6.4.1 Unordered	Differentiate among unordered			
Lists	list, ordered list, definition list			
6.4.2 Ordered Lists	and nested list			
6.4.3 Definition	• Create unordered, ordered,		*	
Lists	definition and nested lists			
6.4.4 Nested Lists				
6.5	• Add an Image to a web page	*		
Image	• Apply Border to Image a web		*	
s and	page			
Backg	• Specify width and Height of an	*		
round s.	Image			
6.5.1 Image tag	• Specify an alternate text for the	*		
6.5.2 Attributes	image			
of Image	• Apply background color to a		*	
Tag: • BORDER	webpage			
WIDTH	• Use an image as a background	*		
HEIGHT	of web page			
ALT				
6.5.3 Body tag				
attributes:				
BGCOLOR				
BACKGROUN				
D	l			
6.6 Hyperlinks	• Define a hyperlink	*		
6.6.1 Hyperlink	• Create a hyperlink to an	Ŷ		
• Links to an	external webpage or within a			
external document	samewebpage.			
Links within		*		
the same	• Develop the understanding about anchor tag			
document	 Use different attributes of 			
6.6.2 Anchor Tag	• Use different attributes of anchor tag.			
• HREF				
• NAME				
• TARGET	<u>I</u>			

6.7 Creating Tables	• Define term tehle	k		
6.7.1 Table Row	• Define term table *			
6.7.2 Table Heading	• Differentiate between rows and columns	*		
6.7.3 Table Data6.7.4 Table attributes:	• Differentiate between table heading and table data tags	*		
ALIGN	• Create a table in webpage		*	
VALIGNWIDTHBORDER	• Change horizontal and vertical alignment of cell contents	*		
CELLPADDING	• Set the width of contents to		*	
CELLSPACING	specific number of pixels or			
COLSPAN	percentage			
• ROWSPAN	• Draw a border around the table		*	
	• Control the distance	*		
	between data in a cell using			
	cellpaddingattribute			
	• Control space between	*		
	adjacent cells by using cells			
	pacingattribute			
	• Create data cells that span given number of rows or column		*	
	using Col span and row span attributes.			

 6.8 Creating Frames 6.8.1 Frameset Tag attributes: ROWS COLS 6.8.2 Frame Tag attributes: SRC MARGINHEIG HT MARGINWIDT H NORESIZE 	 Define a frame * Differentiate between a frame and a frameset Use rows and cols attributes of <frameset> tag for divide thebrowser screen into rows and columns</frameset> Use different attributes like Src, Margin height, Margin width,Name, Noresize, and Scrolling of <frame/> tag. 	
SCROLLING 6.9 Web Designing	List out different website *	
Tools 6.9.1 Software for web designing	 Dist out different website development tools like: Front Page Coral Draw Adobe Dream viewer and others 	

Contents	Student Learning Outcomes	CATEGO	RIZATIO	DN		ΤΟՏ	
	The students will be able to:	K	U	А	MCQ'S	CRQ'S	ERQ'S
 7.1 Flat File System (FileManagement System)& Database System (Database Management 7.1.1 Flat File System 7.1.2 Database System 7.1.3 Advantages of Database Management Systemover Flat File System 	 Define terms flat file system and database system Differentiate between flat file system and database system Discuss the advantages of database system over flat filesystem. 	*	*	*	1	1	1
 7.2 Fundamental of Database System 7.2.1 Basic Database Terminology: Database Table Field/Attribute/Colu mn Record/Tuple/Row Data Type View 7.2.2 Difference between Database, and Database Management System 	 Define basic database terms like table, field, record, data typeand etc. Differentiate between database, and Database ManagementSystem (DBMS) 	*	*		1		

UNIT 7 INTRODUCTION TO DATABASE SYSTEM

7.3 Data Modeling & Entity Relationship ER- Model/ Diagram 7.3.1 Entity	 Define entity * Discuss about term relationship, in the context of database 	
7.3.2 Relationship7.3.3 Keys	• Distinguish among primary, foreign and referential keys.	
Primary KeyForeign Key	• Define term ER model *	
• Referential Key 7.3.4 ER-Model	Design ER model for a database in MS Access	*

DEFINITIONS OF COGNITIVE LEVELS

Remember

Remembering is the act of retrieving knowledge and can be used to produce things like definitions or lists. The student must be able to recall or recognise information and concepts. The teacher must present information about a subject to the student, ask questions that require the student to recall that information and provide written or verbal assessment that can be answered by remembering the information learnt.

Question Stems

- Can you name all the ...?
- Describe what happens when ...?
- How is (are) ...?
- How would you define ...?
- How would you identify ...?
- How would you outline ...?
- How would you recognise...?
- List the ... in order.
- What do you remember about ...?
- What does it mean?
- What happened after?
- What is (are) ...?
- What is the best one?
- What would you choose ...?
- When did ...?
- Where is (are) ...?
- Which one ...?
- Who spoke to ...?
- Who was ...?
- Why did ...?

Understand

The next level in the taxonomic structure is Understanding, which is defined as the construction of meaning and relationships. Here the student must understand the main idea of material heard, viewed, or read and interpret or summarise the ideas in their own words. The teacher must ask questions that the student can answer in their own words by identifying the main idea.

Question Stems

- Can you clarify...?
- Can you illustrate ...?
- Condense this paragraph.
- Contrast ...
- Does everyone think in the way that ... does?
- Elaborate on ...
- Explain why ...
- Give an example
- How can you describe
- How would you clarify the meaning
- How would you compare ...?
- How would you differentiate between ...?
- How would you describe...?
- How would you generalise...?
- How would you identify ...?
- Is it valid that ...?
- Is this the same as ...?
- Outline ...
- Select the best definition
- State in your own words
- This represents ...
- What are they saying?
- What can you infer from ...?
- What can you say about ...?
- What could have happened next?
- What did you observe?

Apply	 What does this mean? What expectations are there? What information can you infer from? What is the main idea of? What restrictions would you add? What seems likely? What seems to be? What would happen if? What would happen if? What would happen if? Which are the facts? Which statements support?
The third level in Bloom's taxonomy,	Analysing is the cognitive level where
Applying, marks a fundamental shift from the pre-Bloom's learning era because it involves remembering what has been learnt, having a good understanding of the knowledge, and applying it to real-world exercises, challenges or situations. Students must apply an abstract idea in a concrete case to solve a problem or relate it to prior experience. The teacher must provide opportunities for students to use theories and problem-solving techniques in new situations and review and check their	Analysing is the cognitive level where students can take the knowledge they have remembered, understood and applied, then delve into that knowledge to make associations, discernments or comparisons. Students should break down a concept or idea into parts and show relationships between these parts. Teachers must give students time to examine concepts and their requisite elements. Students are required to explain why they chose a solution.
work. Assessment questions should be provided that allow students to define and	Question Stems
solve problems. Question Stems	 Can you distinguish between? Can you explain what must have happened when? Determine the point of view, bias,
 Can you group by characteristics such as? Choose the best statements that apply Clarify why Do you know of another instance where? Draw a story map Explain why a character acted in the way that he did From the information given, can you develop a set of instructions about? How could you develop? How would you change? 	 values, or intent underlying the presented material Discuss the pros and cons of How can you classify according to? How can you compare the different parts? How can you sort the different parts? How is connected to? How is similar to? How would you categorise? How would you explain ?

BLOOMS TAXONOMY WITH EXAMPLES

Conclusion

If you are a teacher looking for ways to engage your students in learning, this LIST of questions might be interesting for your classroom practice. Bloom's Taxonomy question stems can help elicit higher-order thinking skills and promote critical thinking among learners at different taxonomy levels. These question stems can also encourage students to think about their knowledge through reflection before answering questions.

ACTION WORDS FOR COGNITIVE LEVELS

ACTION WORDS FOR COGNITIVE LEVELS						
Knowledge	Understand	Apply	Analyze	Evaluate	Create	
-	UNDERSTAND	で で う た う た				
define	explain	solve	analyze	reframe	design	
identify	describe	apply	appraise	criticize	compose	
describe	interpret	illustrate	judge	evaluate	create	
label	paraphrase	modify	support	order	plan	
list	summarize	use	compare	compare	combine	
name	classify	calculate	decide	classify	formulate	
state	compare	change	discriminate	contrast	invent	
match	differentiate	choose	recommend	distinguish	hypothesize	
recognize	discuss	demonstrate	summarize	infer	substitute	
select	distinguish	discover	assess	separate	write	
examine	extend	experiment	choose	explain	compile	
locate	predict	relate	convince	select	construct	
memorize	associate	show	defend	categorize	develop	
quote	contrast	sketch	estimate	connect	generalize	
recall	convert	complete	grade	differentiate	integrate	
reproduce	demonstrate	construct	measure	divide	modify	
tabulate	estimate	dramatize	predict	order	organize	
tell	express	interpret	rank	prioritize	prepare	
Сору	identify	manipulate	score	survey	produce	

discover	indicate	paint	select	calculate	rearrange
duplicate	infer	prepare	test	conclude	rewrite
enumerate	relate	teach	argue	correlate	adapt
listen	restate	act	conclude	deduce	anticipate
observe	select	collect	consider	devise	arrange
omit	translate	compute	critique	diagram	assemble
read	ask	explain	debate	dissect	choose
recite	cite	list	distinguish	estimate	collaborate
record	discover	operate	editorialize	evaluate	facilitate
repeat	generalize	practice	justify	experiment	imagine
retell	group	simulate	persuade	focus	intervene
visualize	illustrate	transfer	rate	illustrate	make
	judge	write	weigh	organize	manage
	observe			outline	originate
	order			plan	propose
	report			question	simulate
	represent			test	solve
	research				support
	review				test
	rewrite				validate
	show				

SSC PART I EXAMINATION MARKS BREAKUP GRID FOR EXAMINATION 2023

SCIENCE GROUP:

SUBJECT	THEORY	PRACTICAL	TOTAL
ENGLISH	100	-	100
URDU NORMAL / SINDHI NORMAL	75	-	75
ISLAMIAT/ETHICS	75	-	75
PHYSICS	60	15	75
CHEMISTRY	60	15	75
BIOLOGY	60	15	75
MATHEMATICS	75	-	75
TOTAL	505	45	550

COMPUTER SCIENCE GROUP:

SUBJECT	THEORY	PRACTICAL	TOTAL
ENGLISH	100	-	100
URDU NORMAL/SINDHI	75	-	75
NORMAL ISLAMIAT/ETHICS	75	-	75
PHYSICS	60	15	75
CHEMISTRY	60	15	75
COMPUTER STUDIES	60	15	75
MATHEMATICS	75	-	75
TOTAL	505	45	550

GENERAL GROUP:

SUBJECT	THEORY	PRACTICAL	TOTAL
ENGLISH	100	-	100
URDU NORMAL / SINDHI	75	-	75
NORMAL			
ISLAMIAT/ETHICS	75	-	75
GENERAL SCIENCE	75	-	75
GENERAL MATH	75	-	75
EDUCATION	75	-	75
ECONOMICS	75	-	75
CIVICS	75	-	75
ISLAMIC STUDIES	75	-	75
TOTAL	550	-	550