INFORMATION AND COMMUNICATION TECHNOLOGY (ELECTIVE)

1. **AIMS**

The aims of the syllabus are to:

- (1) test candidates' appreciation of the concepts of Information and Communication Technology (ICT);
- (2) test the capabilities of candidates in the application of ICT skills in education and business:
- (3) verify candidates' potential for higher studies in Information and Communication Technology and related areas.

2. **SCHEME OF EXAMINATION**

There will be three papers, Papers 1, 2 and 3 all of which must be taken. Papers 1 and 2 will be a composite paper to be taken at a sitting.

- **PAPER 1:** Will consist of fifty multiple-choice objective questions all of which must be answered within 1 hour for 25 marks.
- **PAPER 2:** Will consist of five essay-type questions. Candidates will be required to answer three questions within 1 hour for 30 marks.
- **PAPER 3:** Will be a practical test consisting of three questions all of which must be answered within 2 hours, for 45 marks.

1. **DETAILED SYLLABUS**

TOPIC	NOTES		
1. DATA	1.1 Data types e.g integers, real numbers,		
. REPRESENTATION	strings etc		
	1.2 Number bases with special reference to		
	binary, decimal and hexadecimal.		
	1.3 Units of data storage.		
2. INTRODUCTION	2.1 Meaning of information system		
TO INFORMATION	2.2 Knowledge of the different		
SYSTEMS	types of information systems.		
	2.3 Attributes of good information.		
	2.4 Internal and external information		
	eg. intranet, extranet, memos,		
intercom,	-		
	talking drum, mobile phone etc.		
	2.5 The role of information in society.		
3. INTRODUCTION	3.1 The Internet		
TO DIGITAL	3.2 Computer crime		

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TECHNOLOGY	3.3 The role and impact of Information		
CULTURE	Technology on everyday life e.g		
	e-business, e-health, e-mail,		
	e-learning, Computer Based		
	Training, Computer Assisted Manufacturing, Computer Aided Design, etc.		
	1.4 Knowledge of media types e.g digital videos		
	and		
	1.5 digital sounds, voice over internet protocol (VOIP),voice recognition system, etc.		
4. WORD	4.1 Creating, editing and formatting documents.		
PROCESSING	4.2 Business documents eg. memos, reports etc.		
	4.3 Mail merge.		
	4.4 Printing of documents.		
5. DESKTOP	5.1 Creating, editing and formatting documents.		
PUBLISHING	5.2 Printing publications.		
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6. SPREADSHEET	6.1 Creating, editing and formatting documents.		
	6.2 Sorting and querying for information.		
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in	6.3 Creating graphs and charts to represent data		
	worksheets.		
	6.4 Working with functions		
	6.5 Data security: use of passwords.		
7. HARDWARE	7.1 External components and their functions.		
7. HARDWARE	7.2 Internal components and their functions.		
	7.3 Computer Diagnostics and Maintenance.		
8. SOFTWARE	8.1 System software e.g operating systems and		
	their functions.		
	8.2 Utility programmes and their uses.		
	8.3 Types of application programs.		
	8.4 Software licensing considerations.		
	8.5 Installation and upgrading of computer		
	software.		
	8.6 Software terminologies and concepts:		
	- machine language;		
	- high-level versus low level;		
	- use of fourth generation language;		
	- use of language translators;		
	- source code;		
	- Error messages;		
	- Software portability;		
	- Compilers;		
	- Interpreters;		
	- Assemblers, etc.		
	- Assomotos, etc.		

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9.	NETWORKING		ork concept. s of networks.	
		9.3 Network Topology		
			ork Architecture.	
		9.5 Network configuration.		
		9.6 Communication of data on networks.		
			security on networks.	
10.	INTRODUCTION	10.1 Flow	charts	
	TO	10.2 Algorithms and data structures		
	PROGRAMMING	10.3 Program development life cycle.		
		10.4 Programming languages.		
		10.5 Web design using HyperText		
		Mark-up Language (HTML).		
		10.6 Practical knowledge of BASIC and HTMI		
			amming languages. Questions will	
		howe	ever be limited to QBASIC.	
11.	DATA BASE	11.1	Designing and creating data bases.	
	MANAGEMENT	11.2	Working with queries.	
	SYSTEM	11.3	Working with forms.	
		11.4	Working with reports.	
12	APPLICATION	12.1	Types of tools	
12.	OF ICT TOOLS	12.1	Types of tools.	
	OF ICI TOOLS	12.2	Learning with ICT tools	
		10.0		
	IN EDUCATION	12.3	Advantages and disadvantages of	