



CONTENTS



Digital World

1	Computer Networking	7
	<ul style="list-style-type: none"> Computer Network Components of a Data Communication System Devices Required for a Network Network Architecture Need for Computer Network Types of Networks Wireless Networking Technology Advantages of Computer Network Network Terminologies Topology Protocol 	
2	Introduction to Adobe Photoshop 2024	22
	<ul style="list-style-type: none"> Features of Adobe Photoshop 2024 Adobe Photoshop 2024 Interface Tools in Photoshop Painting Tools Saving a File in Photoshop Opening Adobe Photoshop 2024 Opening an Image in Photoshop Move and Selection Tools Inserting Text Closing a File and Exiting Photoshop Creating a New Document Placing an Image in an Existing Document Cropping Tools Transform Tool 	
3	More on Adobe Photoshop 2024	47
	<ul style="list-style-type: none"> Layers in Photoshop Drawing Tools Image Menu Painting Tools in Photoshop Shape Tools Layer as a Smart Object Retouching Tools Navigation Tools 	

Periodic Assessment	1	65
---------------------	---	----

Cyber World

4	Computer Safety and Security	66
	<ul style="list-style-type: none"> How to Keep Your Computer Physically Fit? How to Backup Your Important Files? Malware Protecting Your Computer from Illegal Access Other Maintenance Techniques Antivirus Firewall 	
5	Google Apps	77
	<ul style="list-style-type: none"> Google Apps of Google 	
Periodic Assessment	2	95
Test Sheet	1	96
6	Latest Technological Developments	98
	<ul style="list-style-type: none"> Artificial Intelligence Data Science Augmented Reality and Virtual Reality Robotics Internet Of Things (IoT) 3D Printing Machine Learning Edge Computing Blockchain 	

7	Images, Links and Frames in HTML5	110
	<ul style="list-style-type: none"> Inserting Images Frames Linking Web Pages Creating Forms in HTML Adding Audio & Video 	
Periodic Assessment	3	132

Coding World

8	Loops in Python	133
	<ul style="list-style-type: none"> The for Statement The while Statement Jump Statements Some More Programs 	
9	Functions and String in Python	145
	<ul style="list-style-type: none"> Functions String Some More Programs 	

Artificial Intelligence

10	Domains of AI	158
	<ul style="list-style-type: none"> Natural Language Processing (NLP) Data Computer Vision (CV) Advantages of Artificial Intelligence 	
Periodic Assessment	4	167
Test Sheet	2	168
	Project Work	170
	Explore More (Office 365)	173
	OGO Cyber Sample Questions	175