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4	4	4	4	4	4	4	4	4	4	4	Sign. of Candidate
5	5	(5)	(5)	(5)	5	5	(5)	5	(5)	(5)	
6	6	6	6	6	6	6	6	6	6	6	
7	7	7	7	7	7	7	7	7	7	7	Sign. of Invigilator
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(7)	A Disease and a second will depote the second and the second and the second will be second as the second will be second as the second will be second as the second will be second with the								
	A.	Ring topology	В.	Bus topology					
	C.	Star topology	D.	Tree topology					
(8)		th one of the following opera olsystem?	ting syst	ems is used in an airline traffic					
	A.	Batch processing system							
	В.	Time sharing system							
	C.	.							
	D.	Real time system							
(9)	Cards	s used to connect additional of	devices to	o motherboard are attached via:					
	A.	Expansion slot	B.	Connector					
	C.	Bays	D.	Links					
(10)	'Multimodal Authentication' means:								
	A.	Use of username and passy	word						
	B.	Use of two or more authen	tication	methods					
	C.	Use of access cards							
	D.	Use of biometrics							
(11)	In a r	ing topology, how many neig	ghbors de	pes each device have?					
	A.	One	B.	Two					
	C.	Three	D.	Four					
(12)	'D6'	with reference to a spreadshe	eet mean	s:					
, ,	A.	Column D, Row 6	В.	Column D6					
	C.	Row D6	D.	Row D, Column 6					
(13)	A tex	at modifying feature in Word	to create	e decorative effects is called:					
(-)	Α.	Bookmark	B.	Layout					
	C.	WordArt	D.	Hyperlink					
	٠.	52 67 110	ν.	J P					



Federal Board SSC-I Examination Computer Science Model Question

Paper(Curriculum 2009)

Time allowed: 2.45 hours

Total Marks: 42

Note: Answer all parts from Section 'B' and all questions from Section 'C' on the **E-sheet**. Write your answers on the allotted/given spaces.

SECTION – B (Marks 22)

Q.2 Attempt all parts from the following. All parts carry equal marks.

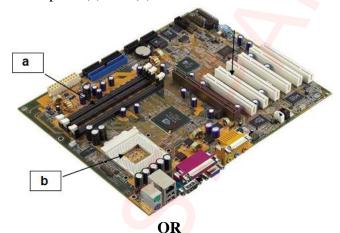
(11x2=22)

i. Write down any two characteristics of 3rd generation computers.

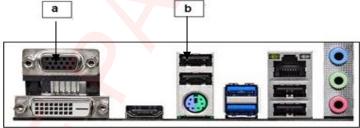
OR

Write down any two characteristics of 4th generation computers.

ii. Name the two parts (a) and (b) of the motherboard.



Name the two ports (a) and (b) of the motherboard.



iii. What does the terms CAD and CAM stand for?

OR

Give two applications of computers in education field.

iv. You want to pursue a career in Information Technology. Which specific career would you be most interested in, and why?

OR

Give two advantages of using bank ATM.

v. With increasing Memory sizes, do you still think Memory Management is an important function of an Operating System? Justify your answer with two reasons.

OR

Name any two common operations that an operating system uses to handle file management.

vi. Identify the most suitable software to prepare Result Sheet of students. Give a suitable reason to support your answer.

OR

Give two characteristics of InPage software.

vii. What is the importance of Protocol in data communication?

OR

Give two applications of Bluetooth technology.

viii. How does synchronous transmission differ from asynchronous transmission in terms of speed and accuracy?

OR

Which communication medium is the fastest? Give two reasons.

ix. Why is accurate data transmission important in a communication system?

OR

Provide an example of a situation during data transmission where timeliness is needed.

x. Write down any two difficulties a company may face in running a business without having a computer network.

OR

Why Mesh topology is considered the most reliable? Give two reasons.

xi. State two ways to protect a computer from virus attacks.

OR

Write down two disadvantages of software piracy.

SECTION – C (Marks 20)

Note: Attempt all questions. Marks of each question are given within brackets. $(4\times05=20)$

Q.3 Explain any two categories of application software with examples. (1.5+1.5+1+1)

OR

Explain the four basic operations of a computer system. Also draw the diagram.

(1+1+1+1+1)

Q.4 Explain Command line and Graphical user interfaces with one example each.

(1.5+1.5+1+1)

OR

Write notes on Macintosh and Linux operating systems.

(2.5 + 2.5)

Q.5 Describe Batch Processing and Time Sharing Operating Systems. Also give one application of each. (1.5+1.5+1+1)

OR

Describe any two types of unguided transmission media along with their applications in daily life. (1.5+1.5+1+1)

Q.6 Explain DSL and ISDN data communication lines. Also give one merit and one demerit of each. (1.5+1.5+1+1)

OR

What are computer ethics? Write any four moral guidelines for ethical use of computer technology. (1+1+1+1+1)

COMPUTER SCIENCE SSC-I

(Curriculum 2009)

Student Learning Outcomes

Sr No	Section: Q. No. (Part no.)	Contents and Scope Student Learning Outcomes		Cognit ive Level **	Allocated Marks in Model Paper
1	A: Q1(1)	5.2 Types of Networks	i) Explain the following types of networks on the basis of spatial distance • Wide Area Network (WAN)	U	1
2	A: Q1(2)	1.3 Computer Hardware	i) Describe the following hardware:• Storage devices	K	1
3	A: Q1(3)	3.1 Word Processing	xv) Use of Hyperlink	A	1
4	A: Q1(4)	5.1 Networks	iii) Define Da <mark>ta</mark> transmissionmodes	U	1
5	A: Q1(5)	4.4 Communication Terminologies	 i) Elaborate the following terms with corresponding formulas and standard units Data rate • Baud rate Bandwidth • Signal to Noise Ratio 	K	1
6	A: Q1(6)	4.3 Communication Devices	Describe the uses of followingcommunication devices • Dialup modem • Network Interface card • Router • Switch / Access Point	К	1
7	A: Q1(7)	5.2 Types of Networks	iii) Explain with detailed diagrams the following network topologies • Bus topology • Ring topology • Star topology • Mesh topology	U	1
8	A: Q1(8)	2.2 Operating System	 ii) Describe the following types of O.S. Batch processing Time sharing processing Real time processing 	U	1
9	A: Q1(9)	1.3 Computer hardware	i) Describe the following hardware: • System unit Motherboard	U	1
10	A: Q1(10)	6.3 Authentication Mechanisms	iv) Explain the term multimodel authentication	К	1
11	A: Q1(11)	5.2 Types of Networks	 iii) Explain with detailed diagrams thefollowing network topologies Bus topology Star topology Mesh topology 	U	1
12	A: Q1(12)	3.2 Spreadsheet	i) Know the Basics of SpreadsheetAddressing cells	U	1
13	A: Q1(13)	3.1 Office Automation	Inserting Word Art	K	1

14	B: 2(i)	1.1 Introduction to	Describe brief history and		
11	D. 2(1)		generations of computer 3rd	K	2
			generation		
			OR		
	2000		4 th generation		
15	B: 2(ii)	1.2 Computer	Motherboard parts	U	2
		Hardware	OR Mathanhaard Parts		
16	B: 2(iii)	1.2 Role of	Motherboard Ports USE OF COMPUTERS IN	K	2
10	D. 2(III)	Computer	VARIOUS FIELDS	K	۷
		Computer	Manufacturing		
			OR • Education		
17	B: 2(iv)	1.2 Role of	Careers in Information	U	2
1,	D. 2(11)	Computer	Technology (IT)		_
			OR		
			Use of Computers in Banks		
			(ATM)		
18	B: 2(v)	2.1 Introduction To OS	Functions of Operating System	U	2
10	۵. ۵(۷)	OR	Memory Management		۷
			OR Memory Management		
		2.1 Introduction To OS	 File Management 	Α	2
19	B: 2(vi)	3.2 Spreadsheet	Introd <mark>uction</mark> to Spreadsheet	K + U	2
		OR	OR		
		3.3 InPage Urdu Editor	Introduction to InPage		
20	B: 2(vii)	4.1 Data	Components Of A Communication		
	2. =(\)	Communication	<mark>System</mark>	U	2
			OR		
		OR	OK .		
		5.2 Types of Networks	<mark>U</mark> ngu <mark>i</mark> ded Media	K	2
21	B: 2(viii)	4.1 Data	Asynchronous and Synchronous		
		Communication	Transmission Modes	U	2
			OR Communication Media		
20	D 0(1)	11 5		**	
22	B: 2(ix)	4.1 Data Communication	Characteristics Of A Good Communication System –	U	2
		Communication	accuracy		
			•		
			OR Timeliness		
23	B: 2(x)	5.1 Computer Networks	Uses of Networks	U	2
	()	Compact Hothorito			-
		OR	OR		
		5.1 Computer Networks	Network Topologies	U	2
24	D. 2(wi)	6.2 Computor Virusos	Common Symptoms of Malware	U	
24	B: 2(xi)	6.2 Computer Viruses	Attack		
		OR			
			OR		
		6.4 Computer Ethics	Areas of Computer Ethics		
25	C:Q3	1.5 Computer Software	Application Software	K	5
		OR	OR		
		1.4 Basic operations of a	Basic operations of a computer	K+A	5
26	C:Q4	computer 2.1 Introduction to OS	Common Types Of Operating	K*A	<u> </u>
20	6.Q 4	2.1 ma oduction to 05	Systems	K	5
					-
			Command Line Interface Craphical User Interface		
I		1	 Graphical User Interface 		

			(GUI). OR Macintosh and Linux operating systems		
27	C: Q5	2.1 FUNDAMENTALS OF OPERATING SYSTEM Or 4.2Transmission Media	Common Types of Operating Systems Or Unguided Media	K + A	5
28	C: Q6	5.3 Communication over the Networks Or 6.4 Computer Ethics	i) Explain the following types of lines which use the telephone networks for data communications • Digital Subscriber Line (DSL) • Integrated Services Digital Network (ISDN) lines • CD MA Or Areas of Computer Ethics	K + U	5

* Student Learning Outcomes
National Curriculum for Computer Sciences Grades IX-XII, 2009 (Page no. 26-36)

**Cognitive Level K: Knowledge

U:

Understanding A: Application

COMPUTER SCIENCE SSC-I

Table of Specifications

Assessment Objectives		Unit 1: Fundamentals of Computer (15%)	Unit 2: Fundamentals of Operating Systems (15%)	Unit 3*: Office Automation (25%)	Unit 4: Data Communication (20%)	Unit 5: Computer Networks (15%)	Unit 6: Computer Security and Ethics (10%)	Tot Mark (55 T +	s: 75	Percentage 100%
Knowledge based	Section A	Q1 (2) (01)		Q1 (13) (01)	Q1 (5) (01) Q1 (6) (01)		Q1 (10) (01)	5		
	Section B	Q2 (i) (02) OR Q2 (i) (02) Q2 (iii) (02) OR Q2 (iii) (02)	Q2 (v) (02) OR Q2 (v) (02)				Q2 (xi) (02) OR Q2 (xi) (02)	16	57	50%
	Section C	Q3(05)	Q4 (05) OR Q4 (05) Q5 (03)		Q6 (05) Q5 (03)	Q5 (05)	Q6(05)	36		
Understanding based	Section A	Q1 (9) (01)	Q1 (8) (01)	Q1 (12) (01)	Q2 (vii) (02) Q2 (viii) (02) OR Q2 (viii) (02)	Q1 (1) (01) Q1 (4) (01) Q1 (7) (01) Q1 (11) (01) Q2 (x) (02) OR Q2 (x) (02)		17	41	40%
	Section B	Q2 (ii) (02) Q2 (iv) (02)	Q2 (iii) (03) OR Q2 (v) (02)	Q2 (vi) (02) OR Q2 (vi) (02)	Q2 (ix) (02)			15		
	Section C	Q3(05)	Q5 (02)		Q5 (02)			9		
Application	Section A			Q1 (3) (01)				1		
based	Section B		Q2 (iii) (01)	4/	Q2 (vii) (02) Q2 (ix) (02) OR Q2 (ix) (02)			7	8	10%
	Section C									
Total marks		24	26	07	26	13	10	10	6	100%

^{*}Unit-3: is all practical so it's 20% covered in practical paper and 5% in theory paper

KEY: Q1(1)(01) Q2(03)

Question No (Part No.) (Allocated Marks) Question No (Allocated Marks)