

Version No.			

ROLL NUMBER							



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1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
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9	9	9	9

0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
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Answer Sheet No. _____

Sign. of Candidate _____

Sign. of Invigilator _____

COMPUTER SCIENCE SSC–I (2nd Set)

SECTION – A (Marks 12)

Time allowed: 15 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. **Do not use lead pencil.**

Q.1 Fill the relevant bubble for each part. Each part carries one mark.

- (1) Which computer professional has the skills to edit and manipulate audio/video files?

A. Programmer	<input type="radio"/>	B. Multimedia designer	<input type="radio"/>
C. Web designer	<input type="radio"/>	D. Software engineer	<input type="radio"/>

- (2) Software that is used to detect and remove the viruses from the computer is called:

A. pirated software	<input type="radio"/>	B. antivirus	<input type="radio"/>
C. spyware	<input type="radio"/>	D. virus	<input type="radio"/>

- (3) An operating system is a/an:

A. System software	<input type="radio"/>
B. Utility program	<input type="radio"/>
C. Application software	<input type="radio"/>
D. Language processor	<input type="radio"/>

- (4) Which one of the following is an absolute cell reference in MS Excel?

A. A1	<input type="radio"/>	B. A1\$	<input type="radio"/>
C. A\$1\$	<input type="radio"/>	D. \$A\$1	<input type="radio"/>

- (5) The communication over telephone line is an example of the following transmission mode:

A. Simplex mode	<input type="radio"/>	B. Half duplex mode	<input type="radio"/>
C. Full duplex mode	<input type="radio"/>	D. Synchronous	<input type="radio"/>

- (6) Which one of the following operating system is suitable for tasks where large amount of data has to be collected and processed on regular basis:

A. Real time operating system	<input type="radio"/>
B. Time sharing operating system	<input type="radio"/>
C. Batch operating system	<input type="radio"/>
D. Single user operating system	<input type="radio"/>

- (7) The default MS Word document window name is:
A. Document1 B. File1
C. WPD1 D. Word1
- (8) Which one of the following medium transmits data using light waves?
A. Twisted pair cable
B. Coaxial cable
C. Fibre optic cable
D. Telephone cable
- (9) Which one of the following provides high speed internet connection?
A. Dial up connection B. DSL connection
C. CDMA connection D. ISDN connection
- (10) Security threats are transferred from one system to another due to:
A. Exchange of data and program
B. Exchange of display screen
C. Dust in room
D. High temperature of room
- (11) Which one of the following is a communication device?
A. NIC B. GPS
C. ALU D. RAM
- (12) Which one of the following refers to the setting of margins, tab positions and line spacing in MS Word?
A. Tool B. Layout
C. Format D. Set up
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Federal Board SSC-I Examination
Computer Science Model Question Paper
(Curriculum 2009)

Time allowed: 2.45 hours

Total Marks: 43

Note: Answer any nine parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 27)

Q.2 Attempt any **NINE** parts from the following. All parts carry equal marks. (9× 3 = 27)

- i. Write down any three applications of Mainframe computers?
- ii. How accuracy and delivery are the important characteristics of good communication system? Justify with one example of each.
- iii. Compare authorized and unauthorized access with one example of each.
- iv. How is peer to peer network different from client server network? Give any three differences.
- v. Write down any six characteristics of 4th generation of computers?
- vi. Compare GUI and CLI?
- vii. What is real time processing system? Write down any two applications of Real time processing system.
- viii. Identify the type of physical media used to develop a network of three computers at home. Justify your answer with two reasons.
- ix. Write down the use of following features in MS Word.
a. Header b. Equation Editor c. Section Break
- x. What is computer ethics? Write down any four moral guidelines for ethical use of computer technology?
- xi. Write down any three differences between LAN and WAN.
- xii. Write down any three differences between RAM and ROM.
- xiii. Why plotter is preferable over printer? Justify with two reasons.

SECTION – C(Marks 16)

Note: Attempt any **TWO** questions. (8 × 2 = 16)

Q.3 Write down characteristics of the following network topologies with the help of diagrams.

- a. Star b. Ring (4+4)

Q.4 Explain any four functions of Operating System. (2+2+2+2)

Q.5 Use appropriate formulae for the following to determine the characteristics of a communication channel: (8)

- Data rate
- Baud rate
- Bandwidth
- Signal to Noise Ratio

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COMPUTER SCIENCE SSC-I (2nd Set)
Student Learning Outcomes Alignment Chart
 (Curriculum 2009)

Sr No	Section: Q. No. (Part no.)	Contents and Scope	Student Learning Outcomes	Cognitive Level **	Allocated Marks in Model Paper
1	A: 1(i)	1.2 Role of computer	ii) Know the scope of the following careers in IT: • Multimedia Designer	U	1
2	A:1(ii)	6.2 Computer Viruses	iii) Know that the following software can help safeguard against viruses, worms, adware and spyware • Antivirus	K	1
3	A: 1(iii)	1.5 Computer software	i) Define the following basic components of system software: • Operating System	K	1
4	A: 1(iv)	3.2 Spreadsheet	i) Know the Basics of Spreadsheet Addressing cells (Relative and absolute addresses)	U	1
5	A: 1(v)	5.1 Networks	iii) Define data transmission modes	U	1
6	A: 1(vi)	2.2 Operating System	ii) Describe the following types of O.S. • Batch processing	U	1
7	A: 1(vii)	3.1 Word Processing	ii) Manage a document (Create, open, Save, Save As, Print)	U	1
8	A: 1(viii)	4.2 Transmission Medium	ii) Discuss the following guided media • Fiber optic cable	U	1
9	A: 1(ix)	5.3 Communication over the Networks	i) Explain the following types of lines which use the telephone networks for data communications. • Digital Subscriber Line (DSL)	U	1
10	A: 1(x)	6.1 Computer Security	iii) Explain the following attacks • Virus	U	1
11	A: 1(xi)	4.3 Communication Devices	Describe the uses of following communication devices • Network Interface card	U	1
12	A: 1(xii)	3.1 Word Processing	vii) Format text (Text, Paragraph, Page)	A	1
13	B: 2(i)	1.1 Introduction to Computer	iv) Understand the conventional classification of digital computers (Mainframe)	U	3
14	B: 2(ii)	4.1 Basics of	iii) Discuss the following	U	3

		Communication	properties of a good communication system • Delivery • Accuracy		
15	B: 2(iii)	6.3 Authentication Mechanisms	ii) Differentiate between authorized access and unauthorized access	U	3
16	B: 2(iv)	5.1 Networks	v) Explain the following types of network architecture • Client/server network • Peer-to-peer network	U	3
17	B: 2(v)	1.1 Introduction to Computer	ii) Describe brief history and generations of computer	K	3
18	B: 2(vi)	2.1 Introduction	Differentiate between common types of O.S. • Command Line Interface (CLI) • Graphical User Interface (GUI)	U	3
19	B: 2(vii)	2.2 Operating System	ii) Describe the following types of O.S. • Real time processing	K+U	1+2
20	B: 2(viii)	4.2 Transmission Medium	ii) Discuss the following guided media • Twisted pair cable • Coaxial cable • Fiber optic cable	A	3
21	B: 2(ix)	3.1 Word Processing	vi) Use of the Equation Editor viii) Insert section breaks ix) Insert header	A	3
22	B: 2(x)	6.4 Computer Ethics	i) Know that computer ethics are the moral guidelines that govern the use of computers and information systems	K	3
23	B: 2(xi)	5.2 Types of Networks	i) Explain the following types of networks on the basis of spatial distance • Local Area Network (LAN) • Wide Area Network (WAN)	U	3
24	B: 2(xii)	1.1 Introduction to Computer) Describe the following hardware: • Memory: – ROM – RAM	U	3
25	B: 2(xiii)	1.3 Computer hardware	i) Describe the following hardware: • Output Devices	U	3
26	C: 3	5.2 Types of Networks	iii) Explain with detailed diagrams the following network topologies • Ring topology • Star topology	K+U	5+2
27	C: 4	2.1 Introduction	ii) Get familiar with the functions of O.S. • Memory management	K	8

			<ul style="list-style-type: none"> • I/O management • Files management • Resource management • Users management 		
28	C: 5	4.4 Communication Terminologies	ii) Use appropriate formulae (e.g., formulae for data rate, baud rate etc.) to determine the characteristics of a communication channel	A	8

****Cognitive Level**

K: Knowledge

U: Understanding

A: Application

COMPUTER SCIENCE SSC-I(2nd Set)
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%)	Total Marks: 75 (55 T + 20 P)		Percentage: 100%
Knowledge based	Section A						1(ii)(01)	2	21	28%
	Section B	2(v)(03)	2(vii)(01)				2(x)(03)	7		
	Section C		4(08)			3(05)		13		
Understanding based	Section A	1(i)(01)	1(vi)(01)	1(iv)(01) 1(vii)(01)	1(iii)(01) 1(viii)(01) 1(xi)(01)	1(v)(01) 1(ix)(01)	1(x)(01)	9	39	52%
	Section B	2(i)(03) 2(xii)(03) 2(xiii)(03)	2(vi)(03) 2(vii)(02)		2(ii)(03)	2(iv)(03) 2(xi)(03)	2(iii)(03)	26		
	Section C					3(03)		3		
Application based	Section A			1(xii)(01)				1	15	20%
	Section B			2(ix)(03)	2(viii)(03)			6		
	Section C				5(08)			8		
Total marks		13	15	06	16	16	08	75	100%	

*Unit 3: Is all practical so it's 17% covered in practical paper and 8% in theory paper.

KEY: 1(i)(01)

Question Number (Part Number)(Allocated Marks)

- Note:** (i) The policy of F.B.I.S.E for knowledge based questions, understanding based questions and application based questions is 30% knowledge based, 50% understanding based and 20% application based.
- (ii) The total marks specified for each unit/content in the table of specification is only related to this model question paper.
- (iii) The difficulty level of the paper is: 40% easy, 40% moderate and 20% difficult.