

COMPUTER SCIENCE**Section – A (Objective) (Marks- 20)**

Paper Pattern	Marking Scheme/Guideline
Q.No 1 20 MCQs with four options each from prescribed textbook. MCQs will be from exercise as well as from within chapters. All chapters will be covered in this section.	01 Mark for each correct answer.

Section – B (Subjective) (Marks- 40)

Paper Pattern	Marking Scheme/Guideline
Q.No 2 This section will be composed of 14 questions having short answers . Students will attempt TEN parts out of them. This Section will cover whole book and ⁴ questions can be from exercises or from within the chapter. <ul style="list-style-type: none"> • Diagrammatic questions from within chapters can be asked. (as included in model paper) 	Each part will be of four 04 marks and full marks will be awarded for a perfect answer.

Section – C (Marks- 40)

Paper Pattern	Marking Scheme/Guideline
This Section will be composed of six long questions. And students will attempt four out of them. This section will cover whole book and questions will be from exercises as well as within the chapter. <ul style="list-style-type: none"> • A question can have two parts not necessarily of equal distribution out of marks 10. • Question related to Diagrams can be asked from within chapters. (as included in model paper) 	Each part in this section will be 10 marks and full marks will be awarded for perfect answer. Where ever required the subdivision of marks will be mentioned accordingly.

COMPUTER SCIENCE**Total Marks:100****SECTION-A Objective (Marks-20)**

Note: Section A is compulsory. Each part carries one mark. Cutting and overwriting is not allowed. Do not use lead pencil?

Q.1 Choose the correct option A, B, C, D in each case. (10)

- (i) The basic unit of a worksheet into which you enter data in Excel is called.
a) Cell (b) Row (c) Box (d) Column
- (ii) Formula in Microsoft Excel must start with:
(a) - (b) = (c) + (d) *
- (iii) Excel is used to prepare a _____.
(a) Presentation (b) E-mail (c) Spreadsheet (d) Webpage
- (iv) _____ can be directly input into the computer.
(a) pseudocode (b) flowchart (c) code (d) algorithm
- (v) Value of a variable _____.
(a) is fixed (b) can be changed
(c) depends upon situation (d) Always based on condition
- (vi) Floor () function always _____ a number.
(a) rounds down (b) rounds up (c) Cycles down (d) cycles up
- (vii) Digital marketing is often referred to as.
(a) billboard (b) online marketing (c) TV (d) radio
- (viii) which of the following is the example of quality Assurance?
(a) Validation (b) Verification (c) Documentation (d) software testing
- (ix) What is the components of business plan?
(a) Marketing Strategy (b) Sales Strategy (c) Operations (d) Digital marketing

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- (x) The flow of program is controlled by the .
(a) Repeat loop b) conditions applied (c) floor () function (d) abs () function
- (xi) The connection of computers in a small geographical area is called _____
(a) LAN (b) MAN (c) WAN (d) PAN
- (xii) Which technology provides telecommunication at high speed?
(a) Virtual Reality (b) Distributed Applications (c) Robotics (d) 5G
- (xiii) _____ is a graphical representation of algorithm.
(a) Pie chart (b) Bar chart (c) Flowchart (d) Graph
- (xiv) To report a cybercrime, you can contact:
(a) www.ndma.gov.pk (b) www.nadra.gov.pk
(c) www.fbise.edu.pk (d) www.nr3c.gov.pk
- (xv) The law that protect creative work is called _____ .
(a) Internet Privacy (b) Copyright (c) Plagiarism (d) Online Safety
- (xvi) It is a self-replicating program
(a) Virus (b) worm (c) spyware (d) adware
- (xvii) IoT stands for _____.
(a) Internet of Things (b) Internet over Time (c) Information of Things (d) Information on Time
- (xviii) **Shift + F3** shortcut key is used to _____ .
(a) Check spelling (b) Insert Chart (c) Insert function (d) Save the document.
- (xix) To roundup 63.1 _____ function is used.
(a) ceiling() (b) floor() (c) round() (d) max()
- (xx) What will be the output of this statement?
1 num=5
2 if num>5
3 print("blue")
4 else
5 print("green")
(a) Blue (b) green (c) num (d) 5

COMPUTER SCIENCE**SECTION-B****Subjective(Marks-80)**

Q.2 Attempt any 10 questions from the following. Each question carries equal marks.(10*4)

1. Explain the working of IF() function in Excel with example? (3+1)
2. Differentiate between work book and worksheet? (2+2)
3. Take a 4-digit number as input for a year and check if the year is a leap year or not.(2+2)
4. What is the purpose of Abs () function in scratch? (3+1)
5. What is difference between payment and transactions? (2+2)
6. List down two advantages and two disadvantages of digital marketing? (2+2)
7. Show Quality assurance process through diagram. (04)
8. List four different tasks that can be performed by robots. (04)
9. Define 3D holographic imaging. (04)
10. Define Cyber Scout. (04)
11. Define Digital Piracy. (04)
12. Demonstrate the main steps to solve a problem. (04)
13. Differentiate between scope and limitation of a problem? Give one example.(1.5+1.5+1)
14. Write steps to insert bar chart in Excel sheet. (04)

SECTION - C (Marks-40) (10*4)

Note: Attempt any four Questions from the following. All questions carry equal marks.

- Q.3** (a) Describe basic components of business plan (2+2+2)
(b) Describe the four elements of marketing (4)
- Q.4** (a) Explain the uses of Microsoft Excel. (4)
(b) Write a Python program to print the table of given number up to 10 steps (6)
- Q.5.** Define Following types of network:
i) LAN ii) WAN iii) MAN iv) PAN v) VPN (2+2+2+2+2)
- Q.6.** State 10 rules that should be followed for online safety and respect? (10)
- Q.7.** (a) Diagrammatically show different parts of coaxial cable ? Also explain its use (3+1)
(b) Generate Pseudo code to Compare three different numbers and find out the largest number.(6)

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Q.8 Consider the following worksheet in Ms Excel and answer following

- (a) Write a formula to calculate total marks of SARA Naeem in D5 (02)
- (b) Write a function to calculate average marks of Bisma Zahid in E3. (02)
- (c) Write a function to calculate highest marks in D7 (02)
- (d) Write a function to calculate lowest marks in D8. (02)
- (e) Write a function to calculate total marks of Ayesha Noor in D2. (02)

	A	B	C	D	E
1	Student Name	Computer	Math	Total Marks	Average Marks
2	Ayesha Noor	55	95		
3	Bisma Zahid	70	54		
4	Daniyah Shah	81	63		
5	Sara Naeem	30	49		
6	Zahida Saleem	41	30		
7	Highest Marks				
8	Lowest Marks				

Result.pk

