

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, PESHAWAR

Higher Secondary School Certificate (H.S.S.C.) Examination — Inter Part-I

Inter Part-I	COMPUTER SCIENCE Paper – XI (01) (23)	Fresh / Reappear 2023
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Instructions (printed in Urdu on the sheet): 1. Each question has four circles; fill in only the circle of the correct answer. 2. Use a blue or black pen to fill the circles. 3. Filling more than one circle will be treated as a wrong answer.

SECTION - A

Time Allowed: 20 Minutes

Marks: 15

1	is a set of programs that manages and coordinates the hardware and provides services to software. ☐ Language Processor ☐ Operating System ☐ Device Driver ☐ None of these
2	Which of the given is called internal processor memory? ☐ RAM ☐ ROM ☐ Cache ☐ DRAM
3	register holds either the address of the instruction being executed or the address of the next instruction to be executed. ☐ Program Counter ☐ Memory Buffer Register ☐ Data Register ☐ Counter Register
4	is used by the CPU to direct and monitor the actions of the other functional areas of the computer. ☐ Data Bus ☐ Address Bus ☐ Control Bus ☐ None of these
5	is a microprocessor architecture that is designed to perform smaller instructions. ☐ RISC ☐ CISC ☐ DISK ☐ LIST
6	The default subnet mask of class B IP addresses are..... ☐ 255.255.255.0 ☐ 255.255.0.0 ☐ 255.0.0.0 ☐ 255.255.255.255
7	is similar to visible light, but with a longer wavelength. ☐ Infrared ☐ WIMAX ☐ Bluetooth ☐ None of these
8	...refers to the minimum number of times an instance in one entity can be associated with an instance in the related entity. ☐ Cardinality ☐ Modality ☐ Normality ☐ None of these
9	is a window that displays data for viewing, entering and editing information. ☐ Report ☐ Query ☐ Form ☐ Table
10	as the default data types to all fields. ☐ Number ☐ Memo ☐ Text ☐ None of these
11	A candidate key which is not selected as the primary key is called ☐ Super key ☐ Foreign key ☐ Candidate key ☐ Alternate key
12	uses 802.11 standard developed by the IEEE. ☐ Wi-Fi ☐ Wi-max ☐ Bluetooth ☐ Infrared
13	 is a set of rules that govern data communication. ☐ Sender ☐ Message ☐ Receiver ☐ Protocol
14	Resource sharing, electronic messaging and network management are the functions performed by layer. ☐ Application ☐ Presentation ☐ Network ☐ Session
15	Class C is used for networks. ☐ Large ☐ Medium size ☐ Small size ☐ Session layer

Note: Time allowed for Section - B and Section - C is 2 Hours and 40 minutes.

SECTION - B

Marks: 40

Q-II Answer any TEN parts. Each part carries FOUR marks.

- How Educational Software allow a computer system to be used as a teaching and learning tool?
- Define language processor with types.
- Differentiate between EPROM and EEPROM?
- Write the similarities between TCP/IP and OSI Model.
- Define Gateway as a communication device.
- What are the main characteristics of cellular networks?
- Write any four limitations of File Management System.
- Define ERD? Write four symbols used in ERD.
- What is database objects?
- Explain different types of queries used in MS-Access.
- What is magnetic memory?
- Define Fetch and Execute as stages of instruction cycle.
- What is wireless application protocol?

SECTION - C

Note: Attempt any TWO questions. All questions carry equal marks.

- Q-III (a) What is Data Communication?
(b) Write five basic components of data communication.
- Q-IV (a) What is database?
(b) Explain various steps for planning a database.
- Q-V Write short note on the following:
(a) Productivity Software and its types.
(b) IP Addressing

Notes

1. Typeset from the board paper. Board wording, spelling and notation are reproduced as printed, including slips; nothing has been corrected.
2. The source answer sheet arrived with the bubbles already shaded in. Options are given unmarked; no answer key is included.
3. The Section A instructions are printed in Urdu on the board sheet; an English rendering is given here.
4. Kept as printed: Q.10 “.....as the default data types to all fields”, Q.15’s fourth option “Session layer” in a list of network sizes, Section B 9 “What is database objects?”.