



Pakistan School, Kingdom of Bahrain
HSSC Pre Board Examination, May-June 2021

Class11th **Sec** B/G

Subject: Computer Science

Student's Name: _____

Total Marks: 15

Time Allowed: 20 min

NOTE: : Section A is compulsory. All parts of this section to be answered on the separately provided OMR Sheet which should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

SECTION – A (Marks 15)

Q1 circle the correct option i.e. a/b/c/d. each part carries one mark

- 1) A record is also called _____ in RDBMS.
A. Field B. Tuple C. Entity D. Attribute
- 2) What is the 'key field' called that is used **in a relationship** between tables whose value matches a primary key in another table?
A. Alternate key B. Foreign key **C. Candidate key** D. Secondary key
- 3) Which of the following is **NOT a** productivity **software**?
A. Word processor B. Graphics software
C. Spreadsheet D. Windows
- 4) Which of the following is a pointing input device?
A. Scanner B. Joystick C. Keyboard D. Plotter
- 5) Which of the following is a temporary memory?
A. Flash 8. PROM C. ROM D. RAM
- 6) 1 Kilo Byte = _____ Bytes.
A. 2^{30} B. 2^{40} C. 2^{10} D. 2^{20}
- 7) Which of the following devices has sequential access to data?
A. Magnetic tape B. Chip memory C. Magnetic disk D. Optical disk
- 8) Where are registers located?
A. Inside DVD B. Inside CPU
C. Inside Hard disk D. Inside memory
- 9) Where are the results of ALU operations transferred?
A. Data register B. Accumulator register
C. Counter register D. Base register
- 10) Which of the following provides interface to a **computer** network?
A. Port B. BIOS C. NIC D. Modem
- 11) DSL stands for:
A. Direct subscriber line B. Digital subscriber line
C. Direct service line D. Data service line
- 12) In which communication mode data can be sent and received in both directions but not simultaneously?
A. Full-duplex B. Synchronous C. Simplex D. Half-duplex
- 13) Which of the following transmission modes uses a start/stop bit for data transmission?
A. Simplex B. Duplex C. Synchronous D. Asynchronous
- 14) Which orbit is located directly above the earth's equator?
A. LEO B. GALILEO C. GEO D. MEO
- 15) Duplication of data in different files is called:
A. Data redundancy B. Data deficiency
C. Data inconsistency D. Data overflow



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Time allowed: 2:40 Hour

Total Marks Sections B, C and D: 60

NOTE: The Questions of sections B, C and D are to be answered on the separately provided answer book. Use supplementary answer sheet i.e. **Sheet-B** if required. Write your answers neatly and **legibly**.

SEC- B (21 Marks)

Q. 2 Answer any SEVEN parts. All parts carry equal marks.

(7 x3 = 21)

- (i) Give any three application areas of supercomputers.
- (ii) What is IoT (Internet of Things)?
- (iii) If cache memory is removed from a computer what will happen to it?
- (iv) Why data access time in sequential access devices is more than that in random access devices?
- (v) Compare microcomputer with mainframe computer?
- (vi) What is the function of control unit in a computer?
- (vii) Give any three differences between CISC and RISC architectures.
- (viii) What is the function of BIOS in a computer?
- (ix) Define licensed computer?
- (x) Differentiate between ALU AND CU?

SECTION - C (Marks 21)

(7 x3=21)

Q. 3 Answer any SEVEN parts. All parts carry equal marks.

- (i) Define any three basic network components.
 - (ii) Give one example each of simplex, half-duplex and full-duplex communication modes.
 - (iii) Give any three characteristics of VPN (Virtual Private Network).
 - (iv) Give any three advantages of wireless networks.
 - (v) Differentiate between short distance and long distance wireless communications?
 - (vi) Briefly describe IP addressing
 - (vii) Give any three advantages of DBMS over file management system.
- A company sells many products to their customers. There

are many suppliers who supply various products. Draw an ER-diagram of entities; Company, Supplier and Customer.

- (viii) Differentiate between cardinality and modality.
- (ix) Give any three advantages of using Forms in Access database

SECTION - D (Marks 18) (3 X 6 = 18)

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

Q. 4 What is a computer software? Explain System software and Application software in detail by giving examples. (1+5)

Q. 5 What is internal processor memory? Explain different types of internal processor memories used in computers? (1+5)

Q. 6 Describe OSI model and also its layers? (6)

Q. 7 What is network topology? Explain Star, Ring and Bus topologies with suitable diagrams. (01+03+02)