



ZIAUDDIN UNIVERSITY
EXAMINATION BOARD

RESOURCES FOR
“HSC-I COMPUTER”
ZUEB EXAMINATIONS 2021



PREFACE:

The ZUEB examination board acknowledges the serious problems encountered by the schools and colleges in smooth execution of the teaching and learning processes due to sudden and prolonged school closures during the covid-19 spread. The board also recognizes the health, psychological and financial issues encountered by students due to the spread of covid-19.

Considering all these problems and issues the ZUEB Board has developed these resources based on the condensed syllabus 2021 to facilitate students in learning the content through quality resource materials.

The schools and students could download these materials from www.zueb.pk to prepare their students for the high quality and standardized ZUEB examinations 2021.

The materials consist of examination syllabus with specific students learning outcomes per topic, Multiple Choice Questions (MCQs) to assess different thinking levels, Constructed Response Questions (CRQs) with possible answers, Extended Response Questions (ERQs) with possible answers and learning materials.

ACADEMIC UNIT ZUEB:

2. Constructed Response Questions (CRQs)

HOW TO ATTEMPT CRQs:

- Write the answer to each Constructed Response Question/ERQs in the space given below it.
- Use black pen/pencil to write the responses. Do not use glue or pin on the paper.

SECTION B (SHORT ANSWER QUESTIONS)

1. Differentiate between data and information?

S.NO	CRQ	ANSWER	CL	DL
1.	What is the function of Cache Memory in Computer?	<u>CACHE MEMORY</u> It is a high-speed memory area that the CPU can access very quickly. This type of memory can be located on the microprocessor chip or in the motherboard. <u>It is used to compensate the speed between processor and memory.</u> Most frequently used instructions or data are kept in Cache Memory for fast accessing to increase the speed of CPU	K	E
2.	Define Computer?	COMPUTER is an <u>Electronic Data Processing Machine or Device</u> that performs processes, calculations and operations based on instructions provided by a program. Today, computers are used in fields of Business, Industry, Education, Banking, Transportation, Research, Explorations, Media, Entertainment, etc.	K/U	M

3.	What is the purpose of Bar-Code Reader?	<p><u>Purpose of Bar-Code Reader</u></p> <p>It is a Scanning input Device. No one nowadays can miss the striped bar codes that appear on food, products, cosmetics and magazine covers. Bar-code readers are photo electric scanners that read bar codes by means of reflected light</p>	K/U	E
4.	Why ROM is Called Non-Volatile Memory?	<p>ROM stands for (Read Only Memory). It can store instructions in permanents, or non-volatile form. Non-Volatile storage does not lose its contents when the power is turned off that is why it is called Non-Volatile Type of Memory</p>	K	E
5.	Why Secondary storage required in computer? How can increase the Storage capacity?	<p>Storage Capacity” refers to the total size of a computer hard drive. The storage capacity of a drive will be measured in Megabytes, Gigabytes, and Terabytes.1024 Megabytes equals one Gigabyte, and 1024 Gigabytes equals one Terabytes.</p> <p>If we want to increase the storage capacity of our computer for the purpose of storing more files, we have three different options.</p> <p>1. Buy a USB flash drive. 2. Buy an Internal hard drive. 3. Buy an External hard drive</p>	K/U	M
6.	Why Star Topology is Best?	<p>Star Topology is Best because</p> <p>1. New Nodes or Terminal can be added to a network easily. 2. No chance of data collision because server prevents collision. 3. In case of adding new Nodes to the network, no transmission Delay, occurred</p>	K/U	E
7.	What is the Purpose of Satellite?	<p>1. Satellite is Microwave relay stations in orbit around the Earth. 2. The basic components of satellite are Earth Stations, which send and receive signals, and a Transponder. 3. They are providing information about the natural resources and environmental factor.</p>	K	E
8.	What is the Use of Router?	<p>Router is a special computer that directs communicating message with several networks are connected together High-speed Routers can serve as a part of the internet backbone, or transmission path, handling the major date traffic</p>	K/U	M
9.	Why Modem is necessary in Communication?	<p>MODEM is the short form of MODOlator and DEModulator. It is necessary in Internet Transmission. Actually, it is used to convert Digital signal into Analog signal called</p>	K/U	E

		Modulation, and Analog signal into Digital signal, called De-Modulation		
10.	Discuss briefly the Impact of Computer in life?	<ol style="list-style-type: none"> 1. Scientists and engineers can tackle interesting problems that they could not have considered without computer's help. 2. The use of computers by businesses to avoid waste and improve efficiency may result in lower product prices and for better service to individuals. 3. Personal systems are used for entertainment and hobby purpose, for educational uses, for family financial applications, and for countless 	K	E
11.	Discuss the Importance of E-Commerce in Business?	E-Commerce means Electronic Commerce. From Last 30 Years, All Type of These applications of Personal computers in the field of Electronic Commerce or in short E-Commerce not only help reduce Business costs, they also redefine the sales person's job by allowing them more then to discuss new products and market trends with the customer	K/U	M
12.	Define Push and Pop function?	<p>PUSH is the term used for inserting an element into a stack and is done by incrementing the stack pointer.</p> <p>POP is the term used for removing an element from a stack and is done by decrementing the stack pointer</p>	K/U	E
13.	Define Serial Port and Parallel Port?	<p><u>SERIAL PORTS</u></p> <ol style="list-style-type: none"> 1. Serial port Transmit 1 bit at a time. 2. It can be used for serial Communication. 3. It is also called Male Connector. 4. It has almost 9 or 25 pins. 5. It is a general-purpose interface. 6. Serial devices are Modem, Mouse and Printer. etc ... <p><u>PARALLEL PORTS:</u></p> <ol style="list-style-type: none"> 1. Parallel port transmits more than 1 bit. 2. It can be used for Parallel Communications. 3. It is also called female Connector. 4. It has almost 8,16,3, wires. 5. It is a special purpose interface. 6. Parallel device are Tape Drives, CD and Printer. etc ... 	K	E

14.	How system can be protected from Virus?	<p>1. Several good Antivirus programs, often called Vaccines, are available.</p> <p>2. Any files that are downloaded from Internet should be carefully screened for Viruses before Use.</p> <p>3. Popular Antivirus programs are</p> <ul style="list-style-type: none"> • MCAFEE virus scan • IBM Antivirus • Dr. Solomon's and Norton 	K/U	M
15.	Define CRT, Pixel and Resolution?	<p><u>CRT</u></p> <p>The Cathode-Ray tube (CRT) is an output display device that resembles a television screen. This is the type of monitor used with microcomputers. CRTs contain an “electron gun” that fires a beam of electrons.</p> <p><u>PIXCEL:</u></p> <p>Pixel stands for Picture element. It is an addressable point on a display screen to which light can be directed under program control.</p> <p><u>RESOLUTION:</u></p> <p>Resolution means Number of addressable points on a monitor's screen or the number of dots per unit area on printed output</p>	K/U	E
16.	Write Some important functions of OS?	<p><u>FUNCTIONS OF OPERATING SYSTEM</u></p> <ol style="list-style-type: none"> 1. Interpretation of commands and instructors. 2. Processor management that is assignment of processors to different tasks being performed by the computer 3. Automatic transition from job to job as directed by special control statements. 	K	E

