TED (22) –2061 **REVISION– 2022**

SECOND YEAR KGCE EXAMINATION IN COMPUTER ENGINEERING

COMPUTER ENGINEERING-1I (HARDWARE AND NETWORK TECHNICIAN)

MODEL QUESTION PAPER SET-1

(Time: 3 hours) (MaximumMarks:60)

PART-A

(There should be at least 3 questions from each module)

(MaximumMarks:20x1 Marks = 20 Marks)

I. Answer the following questions by choosing the correct answer from the options given below. Each question carries 1 mark.

Q No	Question	Module
1	Which of the following is not an input device? a) keyboard b) mouse c) printer d)scanner	MO 1.
2	BIOS stands for a) Basic Input Output System b) Basic Input Output Software c) Batch Input Output System d) Booting Input Output System	MO 1.
3	A group of 8 bits is called. a) Nibble b) Byte c) Word d) Double word	MO 1.
4	1's complement of 110101 is. a) 110101 b) 000101 c) 111010 d) 001010	MO 1.
5	Which of the following is not a basic gate? a) NAND b) OR c) AND d) NOT	MO 1.
6	RAM stands for? a) Rapid Access Memoryb) Random Access Memory c) Raid Access Memory d) Rarely Access Memory	MO 2.
7	Which of the following is not a memory? a) ROM b) EPROM c) RAM d) CMOS	MO 2.
8	Specification of the motherboard is known as? a) dimension b) resolution c) form factord) design	MO 2.
9	SMPS stands for a) Switched Mode Power Supply b) Switched Memory Power Supply c) System Main Power Supply d) Single Mode Power Supply	MO 2.
10	The small graphical representation of a program or file in a desktop is known as a) Folder b) Picture c) File d) Icon	MO 2.
11	The protocol used for email communication is a) SMTP.	MO 3.10

	b) FTP c) TELNET d) DNS	
12	Which of the following is a topology a) Bus b) Ring c) Mesh d) All of these.	MO 3.8
13	What is the format of IP address? a) 34 bit b) 64 bit c) 16 bit d) 32 bit	
14	Which of the following is not an interconnecting device? a) Switch b) Router c) Bridge d) NIC	
15	The technology used to connect computers in traditional LAN is a) Bluetooth b) Ethernet c) Wifi d) All of these	
16	Which of the following is a collaboration tool? a) Google Meet b) Skype c) Webex d) All of these	
17	WIFI stands for? a) Wired Fidelity b) Wired Function c) Wireless Fidelity d) None of these	
18	The process of encoding information is known as? a) Decryption b) Coding c) Encryption d) All of these	
19	A proxy firewall filters at? a) Physical layer b) Data link layer c) Network layer d) Application Layer	
20	MAC address is _____ bits? a) 32 b) 48 c) 64 d) 16	

PART-B

(There should be at least 2 questions from each module)

(MaximumMarks: 8x5 Marks = 40 Marks)

II. Answer *any eight* questions from the following. Each question carries marks.5 Marks.

Q No	Question	Module
1	Convert the following. a) $(537)_{10}$= (___)$_2$ b) (126)8= (___)$_{10}$	MO 1.
2	Draw the logic symbol and truth table of X-OR gate and NAND gate.	MO 1.
3	Explain the following with example. a) BCD b) ASCII	MO 1.
4	List and explain any three types of memory.	MO 2.10
5	Explain various power connectors.	MO 2.16
6	Explain the following. a) Hard disk b) Floppy Disk	MO 2.13
7	Explain the features of LAN, MAN, WAN.	MO 3.1
8	Explain subnetting and supernetting.	MO 3.2
9	Differentiate between Hub and Switch.	MO 3.3
10	State the characteristics of firewall.	MO 4.
11	Explain various solutions for WIFI security issues.	MO 4.
12	Explain DES and RSA encryption techniques.	MO 4.