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COLLEGE OF ENGINEERING AND TECHNOLOGY

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VALUE ADDED COURSES

2022-2023

Department of Electronics and communication Engineering

22ECE01-ARM System Architecture.

MARK SHEET

Sl. No	Register Number	Student Name	MARKS
1	19TC1101	ABIRAMI S	92
2	19TC1102	BENINAL G	92
3	19TC1103	DINESH KUMAR V	96
4	19TC1104	GAUTHAM S	96
5	19TC1105	GOVINDARAJ K	92
6	19TC1106	I.KARTHESWARAN	92
7	19TC1107	I.MUTHURAMAN	96
8	19TC1108	KALAIVANAN M	96
9	19TC1109	KISHORE RAJAN N	92
10	19TC1110	NARAYANAN B	92
11	19TC1112	RAJALAKSHMI S	92
12	19TC1113	RESMINA FARVIN M	92
13	19TC1114	S.JEEVANANDAM	96
14	19TC1115	SATHISH N	96
15	19TC1116	SOORIYA D	92
16	19TC1117	SUGANYA M	92
17	19TC1118	YOGAA SUPARNA K P	96

HOD

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Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSE
2022-2023
Department of Electronics and communication Engineering

22ECE01- ARM System Architecture

NAME:

CLASS:

DATE:

1. What does ARM stand for in ARM architecture?
   A) Advanced RISC Machines
   B) Advanced Reduced Machines
   C) Arithmetic RISC Machines
   D) Advanced Random Machines
   Answer: A) Advanced RISC Machines

2. Which of the following is a characteristic of ARM architecture?
   A) Complex Instruction Set Computing (CISC)
   B) Reduced Instruction Set Computing (RISC)
   C) Very Large Instruction Word (VLIW)
   D) Explicitly Parallel Instruction Computing (EPIC)
   Answer: B) Reduced Instruction Set Computing (RISC)

3. In ARM architecture, which register is typically used as the Program Counter (PC)?
   A) R13
   B) R14
   C) R15
   D) R16
   Answer: C) R15

4. What is the typical width of ARM instructions?
   A) 8 bits
   B) 16 bits
   C) 32 bits
   D) 64 bits
   Answer: C) 32 bits

5. Which ARM architecture version introduced the Thumb instruction set?
   A) ARMv3
   B) ARMv4
   C) ARMv5
   D) ARMv6
   Answer: B) ARMv4

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6. What is the purpose of the CPSR (Current Program Status Register) in ARM architecture?
   A) To store data temporarily
   B) To hold the current instruction
   C) To hold the current state and flags of the processor
   D) To store the stack pointer
   Answer: C) To hold the current state and flags of the processor

7. Which addressing mode is NOT commonly used in ARM architecture?
   A) Immediate
   B) Register
   C) Direct
   D) Indexed
   Answer: C) Direct

8. What does the 'LDR' instruction do in ARM assembly language?
   A) Load a register from memory
   B) Store a register to memory
   C) Logical AND two registers
   D) Left shift a register
   Answer: A) Load a register from memory

9. In ARM architecture, which register is commonly used as the link register (LR)?
   A) R12
   B) R13
   C) R14
   D) R15
   Answer: C) R14

10. What is the main benefit of the Thumb instruction set in ARM architecture?
    A) Increased performance
    B) Reduced power consumption
    C) Reduced code size
    D) Increased memory
    Answer: C) Reduced code size

11. Which feature allows ARM processors to execute multiple instructions per cycle?
    A) Super-scalar
    B) Pipelining
    C) Out-of-order execution
    D) Branch prediction
    Answer: B) Pipelining

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12. Which ARM mode is used for handling interrupts?
    A) User mode
    B) System mode
    C) Supervisor mode
    D) IRQ mode
    Answer: D) IRQ mode

13. In ARM architecture, which of the following is a conditional execution instruction?
    A) MOV
    B) ADD
    C) BNE
    D) STR
    Answer: C) BNE

14. What does 'MOV' instruction do in ARM assembly language?
    A) Move data from one register to another
    B) Move data from memory to a register
    C) Move data from a register to memory
    D) Move data from one memory location to another
    Answer: A) Move data from one register to another

15. Which register in ARM architecture is used as the stack pointer (SP)?
    A) R10
    B) R11
    C) R12
    D) R13
    Answer: D) R13

16. What is the purpose of the 'BL' instruction in ARM assembly language?
    A) Branch to a subroutine
    B) Load a register
    C) Store a register
    D) Branch unconditionally
    Answer: A) Branch to a subroutine

17. Which ARM architecture feature helps in energy-efficient performance?
    A) Super-scalar architecture
    B) Big.LITTLE architecture
    C) SIMD instructions
    D) Hyper-threading
    Answer: B) Big.LITTLE architecture

18. What does the 'CMP' instruction do in ARM assembly language?
    A) Compare two registers
    B) Compute the complement of a register

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C) Combine two registers
D) Clear a register
Answer: A) Compare two registers

19. Which ARM processor series is designed specifically for real-time applications?
A) Cortex-A
B) Cortex-R
C) Cortex-M
D) Cortex-X
Answer: B) Cortex-R

20. What is the purpose of the 'STM' instruction in ARM assembly language?
A) Store multiple registers to memory
B) Load multiple registers from memory
C) Set the status register
D) Subtract two registers
Answer: A) Store multiple registers to memory

21. Which ARM mode is entered on a system reset?
A) User mode
B) FIQ mode
C) Supervisor mode
D) IRQ mode
Answer: C) Supervisor mode

22. What does 'ADR' instruction do in ARM assembly language?
A) Add two registers
B) Address a memory location
C) Load an address into a register
D) Store an address into memory
Answer: C) Load an address into a register

23. In ARM architecture, what does the term "Thumb-2" refer to?
A) A new set of instructions
B) A mix of 16-bit and 32-bit instructions
C) A type of register
D) A type of memory
Answer: B) A mix of 16-bit and 32-bit instructions

24. Which instruction in ARM assembly is used to perform a software interrupt?
A) SWI
B) SVC
C) INT
D) CALL
Answer: A) SWI

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25. Which ARM architecture version introduced 64-bit support?
    A) ARMv6
    B) ARMv7
    C) ARMv8
    D) ARMv9
    Answer: C) ARMv8

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VALUE ADDED COURSE
2022-2023
Department of Electronics and communication Engineering

22ECE01- ARM System Architecture

NAME: SOORIYA.D

CLASS: IV/ECE

DATE: 20/08/2022

23/25 92%

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D) To store the stack pointer

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C) Supervisor mode
D) IRQ mode

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D) ARMv9

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Certificate of Completion

2022-2023

This is to certify that Mr/Ms .....RAJALAKSHMI.S.....

Year...IV..... Department...E.C.E..... has successfully Completed the Value added course.

COURSE TITLE: ...ARM SYSTEM ARCHITECTURE SCORE: ....92....

COURSE DURATION: .....9/8/22...to..13/8/22.....

HOD

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VALUE ADDED COURSES

2022-2023

Department Of Electronics and Communication Engineering

22ECE02 – NETWORK AND PROTOCOLS

MARK SHEET

Sl. No	Register Number	Student Name	Marks
1	20TC0501	AKASH M	92
2	20TC0502	AKASH M	92
3	20TC0503	ANKANI LEELA SAI VARMA	96
4	20TC0505	BALAJI S	96
5	20TC0506	BHARATHI K	92
6	20TC0507	FARIDH KHAN J	92
7	20TC0508	PRAVIN R	96
8	20TC0509	PURUSHOTHAMAN D	96
9	20TC0510	RAJESWARI R	92
10	20TC0512	SATHEESH KUMAR A	92
11	20TC0513	SHARMILA S	96
12	20TC0514	SRI HARI B	96
13	20TC0515	SWATHI S	92
14	20TC0516	THAYUMANAVAR S	96
15	20TCL046	JEGAN PRABATH A	92
16	20TCL047	RAJALAKSHMI J	92

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VALUE ADDED COURSE
2022-2023
Department of Electronics and communication Engineering

22ECE02- Network and Protocols

NAME:

CLASS:

DATE:

1. Which layer of the OSI model is responsible for establishing, managing, and terminating connections?
   A) Physical
   B) Data Link
   C) Network
   D) Transport
   Answer: D) Transport

2. What does IP stand for in networking?
   A) Internet Protocol
   B) Internal Protocol
   C) Internet Program
   D) Internal Program
   Answer: A) Internet Protocol

3. Which protocol is used to dynamically assign IP addresses to devices on a network?
   A) DNS
   B) DHCP
   C) FTP
   D) HTTP
   Answer: B) DHCP

4. Which protocol is used to secure web transactions?
   A) HTTP
   B) FTP
   C) HTTPS
   D) SSH
   Answer: C) HTTPS

5. Which of the following protocols is used for sending email?
   A) HTTP
   B) SMTP
   C) FTP
   D) SNMP

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Answer: B) SMTP

6. Which protocol is used for remote command-line login?
   A) Telnet
   B) FTP
   C) HTTP
   D) SNMP
   Answer: A) Telnet

7. The primary purpose of the DNS protocol is to:
   A) Send emails
   B) Resolve domain names to IP addresses
   C) Transfer files
   D) Manage network devices
   Answer: B) Resolve domain names to IP addresses

8. Which layer of the OSI model is responsible for routing packets across network boundaries?
   A) Physical
   B) Data Link
   C) Network
   D) Transport
   Answer: C) Network

9. Which protocol is used for time synchronization across network devices?
   A) NTP
   B) HTTP
   C) FTP
   D) SMTP
   Answer: A) NTP

10. What does TCP stand for?
    A) Transmission Control Protocol
    B) Transfer Control Protocol
    C) Transport Control Protocol
    D) Transmission Communication Protocol
    Answer: A) Transmission Control Protocol

11. Which protocol uses port 80 by default?
    A) FTP
    B) HTTPS
    C) HTTP
    D) SMTP
    Answer: C) HTTP

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12. Which protocol is used to retrieve email from a mail server?
    A) SMTP
    B) POP3
    C) FTP
    D) IMAP
    Answer: B) POP3

13. In the TCP/IP model, which layer is responsible for end-to-end communication and error checking?
    A) Application
    B) Transport
    C) Internet
    D) Network Access
    Answer: B) Transport

14. Which protocol is commonly used for secure file transfer over a network?
    A) FTP
    B) SFTP
    C) HTTP
    D) Telnet
    Answer: B) SFTP

15. What is the main function of the ARP protocol?
    A) To convert IP addresses to MAC addresses
    B) To convert domain names to IP addresses
    C) To transfer files between devices
    D) To send error messages
    Answer: A) To convert IP addresses to MAC addresses

16. Which protocol is used for managing and monitoring network devices?
    A) SMTP
    B) SNMP
    C) FTP
    D) HTTP
    Answer: B) SNMP

17. What does the acronym NAT stand for in networking?
    A) Network Address Translation
    B) Network Access Translation
    C) Network Allocation Table
    D) Network Address Table
    Answer: A) Network Address Translation

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18. Which protocol is used to securely transmit data over an unsecured network, such as the internet?
    A) FTP
    B) HTTP
    C) SSH
    D) Telnet
    Answer: C) SSH

19. Which of the following is a connectionless protocol?
    A) TCP
    B) FTP
    C) UDP
    D) HTTP
    Answer: C) UDP

20. Which layer of the OSI model provides services to the end-user and applications?
    A) Physical
    B) Data Link
    C) Network
    D) Application
    Answer: D) Application

21. What is the default port number for the HTTPS protocol?
    A) 20
    B) 21
    C) 80
    D) 443
    Answer: D) 443

22. Which protocol is used for accessing web pages?
    A) HTTP
    B) FTP
    C) SMTP
    D) SNMP
    Answer: A) HTTP

23. The ICMP protocol is primarily used for:
    A) Email transmission
    B) File transfer
    C) Error reporting and diagnostics
    D) Web browsing
    Answer: C) Error reporting and diagnostics

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24. What does the protocol IMAP stand for?
    A) Instant Mail Access Protocol
    B) Internet Mail Access Protocol
    C) Interactive Mail Access Protocol
    D) Intermediate Mail Access Protocol
    Answer: B) Internet Mail Access Protocol

25. Which of the following protocols allows a user to interact with a remote server's command line interface?
    A) FTP
    B) HTTP
    C) SSH
    D) SNMP
    Answer: C) SSH

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VALUE ADDED COURSE
2022-2023

Department of Electronics and communication Engineering

22ECE02- Network and Protocols

NAME: PRAVIN. R
CLASS: III /ECE
DATE: 20/08/2022

1. Which layer of the OSI model is responsible for establishing, managing, and terminating connections?
   A) Physical
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   C) Network
   D) Transport

24/25
96%

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    B) File transfer
    C) Error reporting and diagnostics
    D) Web browsing

24. What does the protocol IMAP stand for?
    A) Instant Mail Access Protocol
    B) Internet Mail Access Protocol
    C) Interactive Mail Access Protocol
    D) Intermediate Mail Access Protocol

25. Which of the following protocols allows a user to interact with a remote server's command line interface?
    A) FTP
    B) HTTP
    C) SSH
    D) SNMP

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Certificate of Completion

2022-2023

This is to certify that Mr/Ms .....AKASH.M.....

Year...III..... Department....ECE.....has successfully Completed the Value added course.

COURSE TITLE: ..NETWORK..AND..PROTOCOLS..... SCORE: .....92.....

COURSE DURATION: ...9./8/22...to...13./8/22.....

HOD

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VALUE ADDED COURSES
2022-2023
Department of Electronics and Communication Engineering
22ECE03- Wireless Local Area Network
MARK SHEET

Sl. No	Register Number	Student Name	Marks
1	21TC0451	FAIZ AHMED A	92
2	21TC0452	HEMAMALINI J	92
3	21TC0454	MOHAMMED UMAR B	96
4	21TC0455	NIRUBAMASRI M	96
5	21TC0456	PREETHISH KUMAR P	92
6	21TC0457	RAMYA V	92
7	21TC0458	SARASWATHY R	96
8	21TC0460	SHANMUGA PRASATH C	96
9	21TC0461	SIVARANJANI M	92
10	21TC0462	SUJAY S	92
11	21TC0463	SUSAIRAJ S	96
12	21TC0465	VASANTH S	96
13	21TC0466	YUVASELVANATHAN B	92

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VALUE ADDED COURSE
2022-2023
Department of Electronics and communication Engineering

22ECE03- Wireless Local Area Network

NAME:

CLASS:

DATE:

1. What does WLAN stand for?
   A) Wide Local Area Network
   B) Wireless Local Area Network
   C) Wired Local Area Network
   D) Wireless Linear Area Network
   Answer: B) Wireless Local Area Network

2. Which standard is most commonly associated with WLANs?
   A) IEEE 802.3
   B) IEEE 802.5
   C) IEEE 802.11
   D) IEEE 802.15
   Answer: C) IEEE 802.11

3. Which frequency band is commonly used for Wi-Fi networks?
   A) 900 MHz
   B) 2.4 GHz
   C) 1.8 GHz
   D) 5 GHz
   Answer: B) 2.4 GHz and D) 5 GHz

4. What is the maximum theoretical data rate of the IEEE 802.11ac standard?
   A) 54 Mbps
   B) 600 Mbps
   C) 1.3 Gbps
   D) 6.9 Gbps
   Answer: D) 6.9 Gbps

5. What does SSID stand for in the context of WLANs?
   A) Secure Set Identification
   B) Service Set Identification

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C) Standard Service Identifier
D) Single Service Identifier
Answer: B) Service Set Identification

6. Which encryption method is considered the most secure for WLANs?
   A) WEP
   B) WPA
   C) WPA2
   D) TKIP
   Answer: C) WPA2

7. What does WPS stand for?
   A) Wireless Protected Setup
   B) Wi-Fi Protected Setup
   C) Wireless Private Setup
   D) Wi-Fi Private Setup
   Answer: B) Wi-Fi Protected Setup

8. Which IEEE 802.11 standard operates exclusively in the 5 GHz band?
   A) 802.11b
   B) 802.11g
   C) 802.11n
   D) 802.11a
   Answer: D) 802.11a

9. What is the main function of a wireless access point (AP)?
   A) To provide a wired connection to the internet
   B) To route packets between networks
   C) To connect wireless devices to a wired network
   D) To secure the network
   Answer: C) To connect wireless devices to a wired network

10. What is the typical range of a Wi-Fi signal indoors?
    A) 10-20 meters
    B) 30-50 meters
    C) 60-80 meters
    D) 100-150 meters
    Answer: B) 30-50 meters

11. Which technology allows multiple antennas to be used on both the transmitter and receiver to improve communication performance?
    A) WEP
    B) MIMO
    C) SSID
    D) DHCP

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Answer: B) MIMO

12. What is the purpose of a wireless mesh network?
    A) To extend the range and coverage of a WLAN
    B) To encrypt data
    C) To allocate IP addresses
    D) To connect multiple LANs
    Answer: A) To extend the range and coverage of a WLAN

13. Which device can act as both a router and a wireless access point?
    A) Switch
    B) Hub
    C) Modem
    D) Wireless router
    Answer: D) Wireless router

14. What is the primary security vulnerability of using WEP encryption?
    A) Weak password requirements
    B) Easily crackable encryption algorithm
    C) Compatibility issues
    D) Slow data transfer rates
    Answer: B) Easily crackable encryption algorithm

15. Which of the following can interfere with Wi-Fi signals?
    A) Bluetooth devices
    B) Microwaves
    C) Cordless phones
    D) All of the above
    Answer: D) All of the above

16. What does MAC address filtering do in a WLAN?
    A) Encrypts data
    B) Restricts access to the network based on device MAC addresses
    C) Increases signal range
    D) Improves data transfer speeds
    Answer: B) Restricts access to the network based on device MAC addresses

17. What does the acronym "WLAN" stand for?
    A) Wireless Local Area Network
    B) Wide Local Area Network
    C) Wireless Long Area Network
    D) Wide Long Area Network
    Answer: A) Wireless Local Area Network

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18. Which of the following protocols is used for secure wireless communication?
    A) HTTP
    B) FTP
    C) WPA2
    D) SNMP
    Answer: C) WPA2

19. Which type of wireless network topology involves clients communicating directly with each other without an AP?
    A) Infrastructure mode
    B) Ad hoc mode
    C) Star topology
    D) Mesh topology
    Answer: B) Ad hoc mode

20. What is the purpose of a wireless repeater?
    A) To provide a wired connection
    B) To boost the wireless signal
    C) To encrypt data
    D) To allocate IP addresses
    Answer: B) To boost the wireless signal

21. What frequency bands do dual-band routers operate on?
    A) 2.4 GHz only
    B) 5 GHz only
    C) Both 2.4 GHz and 5 GHz
    D) 900 MHz and 2.4 GHz
    Answer: C) Both 2.4 GHz and 5 GHz

22. Which IEEE 802.11 standard introduced MIMO technology?
    A) 802.11a
    B) 802.11b
    C) 802.11g
    D) 802.11n
    Answer: D) 802.11n

23. What does the term "Wi-Fi" stand for?
    A) Wireless Fidelity
    B) Wired Fidelity
    C) Wireless Function
    D) Wired Function
    Answer: A) Wireless Fidelity

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24. Which of the following is not a Wi-Fi security protocol?
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    Answer: D) HTTP

25. What is the purpose of the beacon frame in a Wi-Fi network?
    A) To encrypt data
    B) To advertise the presence of a wireless network
    C) To allocate IP addresses
    D) To boost the signal
    Answer: B) To advertise the presence of a wireless network

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VALUE ADDED COURSE
2022-2023

Department of Electronics and communication Engineering

22ECE03- Wireless Local Area Network

NAME: RAMYA.V
CLASS: II/ECE
DATE: 20/08/2022

23/25
92%

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This is to certify that Mr/Ms ..... SUJAY S .....

Year..... III ..... Department..... ECE ..... has successfully Completed the Value added course.

COURSE TITLE: ..... WIRELESS LOCAL AREA NETWORK .....

SCORE: ..... 92 .....

COURSE DURATION: ..... 9/8/22 to 13/8/22 .....

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