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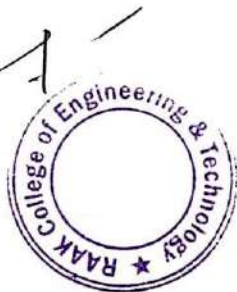
VALUE ADDED COURSES 2022-2023

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	KALAIIVANAN 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

AM
HOD



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

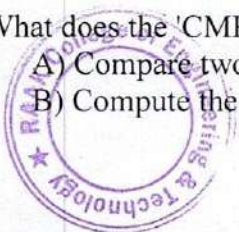
17. Which ARM architecture feature helps in energy-efficient performance?

- 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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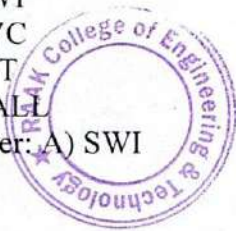
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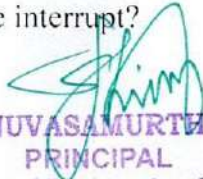
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- C) Combine two registers
D) Clear a register
Answer: A) Compare two registers
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A) Cortex-A
B) Cortex-R
C) Cortex-M
D) Cortex-X
Answer: B) Cortex-R
20. What is the purpose of the 'STM' instruction 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
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A) Add two registers
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Answer: C) Load an address into a register
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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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Department of Electronics and communication Engineering

22ECE01- ARM System Architecture

NAME: SOORIYA . D

CLASS: IV / ECE

DATE: 20/08/2022

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- D) To store the stack pointer
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C) R12
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- C) Supervisor mode
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Certificate of Completion

2022-2023

This is to certify that Mr/Ms RAJA LAKSHMI S.....

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

COURSE TITLE: ...A.R.M.S.Y.S.T.E.M....A.R.C.H.I.T.E.C.T.U.R.E

SCORE: 92.....

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

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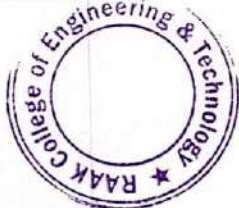
Department Of Electronics and Communication Engineering

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

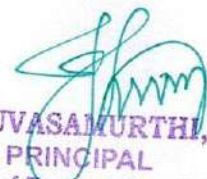
NAME:

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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22ECE02- Network and Protocols

NAME: PRAVIN. R

CLASS: III / ECE

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6. Which protocol is used for remote command-line login?
 A) Telnet
 B) FTP
 C) HTTP
 D) SNMP
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
8. Which layer of the OSI model is responsible for routing packets across network boundaries?
 A) Physical
 B) Data Link
 C) Network
 D) Transport
9. Which protocol is used for time synchronization across network devices?
 A) NTP
 B) HTTP
 C) FTP
 D) SMTP
10. What does TCP stand for?
 A) Transmission Control Protocol
 B) Transfer Control Protocol
 C) Transport Control Protocol
 D) Transmission Communication Protocol
11. Which protocol uses port 80 by default?
 A) FTP
 B) HTTPS
 C) HTTP
 D) SMTP
12. Which protocol is used to retrieve email from a mail server?
 A) SMTP
 B) POP3
 C) FTP
 D) IMAP




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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
14. Which protocol is commonly used for secure file transfer over a network?
- A) FTP
 - B) SFTP
 - C) HTTP
 - D) Telnet
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
16. Which protocol is used for managing and monitoring network devices?
- A) SMTP
 - B) SNMP
 - C) FTP
 - D) HTTP
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
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
19. Which of the following is a connectionless protocol?
- A) TCP
 - B) FTP
 - C) UDP
 - D) HTTP




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20. Which layer of the OSI model provides services to the end-user and applications?
A) Physical
B) Data Link
C) Network
D) Application
21. What is the default port number for the HTTPS protocol?
A) 20
B) 21
C) 80
D) 443
22. Which protocol is used for accessing web pages?
A) HTTP
B) FTP
C) SMTP
D) SNMP
23. The ICMP protocol is primarily used for:
A) Email transmission
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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2022-2023

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Year..... Department..... P.C.F..... has successfully Completed the Value added course.

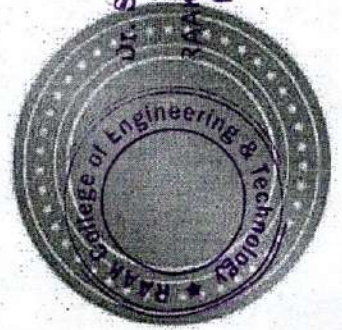
COURSE TITLE: ...NETWORK AND PROTOCOLS.....

SCORE: 92.....

COURSE DURATION: 9.1.8/22 to 13.1.8.22.....

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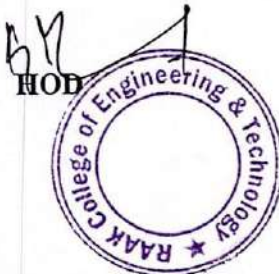
VALUE ADDED COURSES
2022-2023

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?

- A) WPA
- B) WEP
- C) WPA2
- D) HTTP

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

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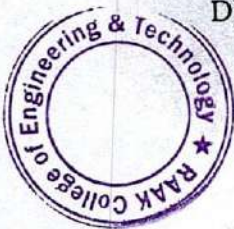



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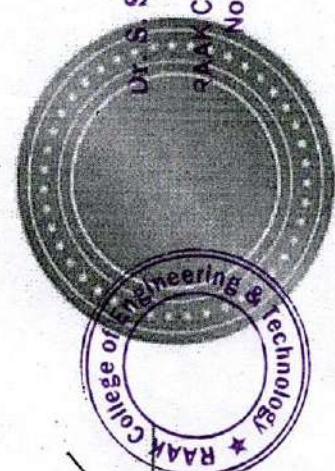
COURSE TITLE: WIRELESS LOCAL AREA NETWORK.....

SCORE: 92

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

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