

DAY 66

1st March 22
→ 23rd March



MCA CET 2025

COMPUTER

FUNDAMENTALS

REVISION



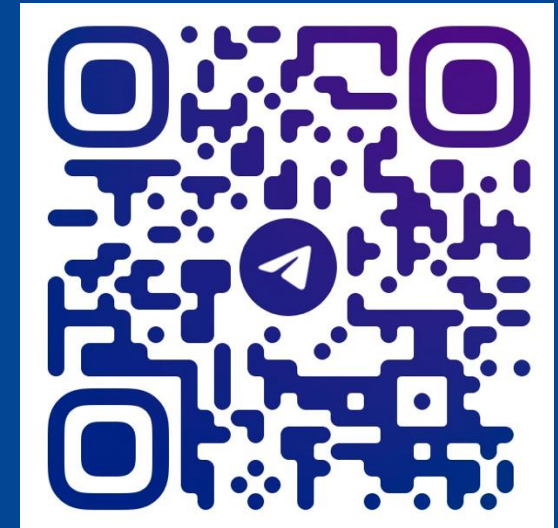
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01

Ethernet is the example of:

- ✓ (a) LAN
- (b) MAN
- (c) WAN
- (d) Wi-Fi
- (e) None of these



Ethernet is a widely used technology for local area networks (LANs), which are networks that connect devices within a limited area such as a home, office, or building.

It is not typically used for metropolitan area networks (MANs), wide area networks (WANs), or Wi-Fi, although Ethernet can be a component of larger network infrastructures.



02

Carrier Sense Multiple Access

Collision Detection

In CSMA/CD, CD means:

- (a) Communication device
- ✓ (b) Collision Detection
- (c) Collision device
- (d) Communication Detection
- (e) None of these

⇓
protocol
(CAN)



CSMA/CD stands for Carrier Sense Multiple Access with Collision Detection.

It is a network protocol used to manage data transmission and detect collisions (when two devices attempt to send data simultaneously) in Ethernet networks.



03

_____is when more power hungry components, such as the monitor and the hard drive, are put in idle.

- (a) Hibernation
- (b) Power down
- ☒ (c) Standby mode
- (d) shutdown
- (e) None of these



04

Pending PDS's
→ Tomorrow

A _____ is a combination of hardware and software that facilitates the sharing of information between computing devices.

- ☒ (a) Network
- (b) Peripheral
- (c) Expansion board
- (d) Digital device
- (e) None of these

is/ _____ are device used to transmit data over telecommunication lines.

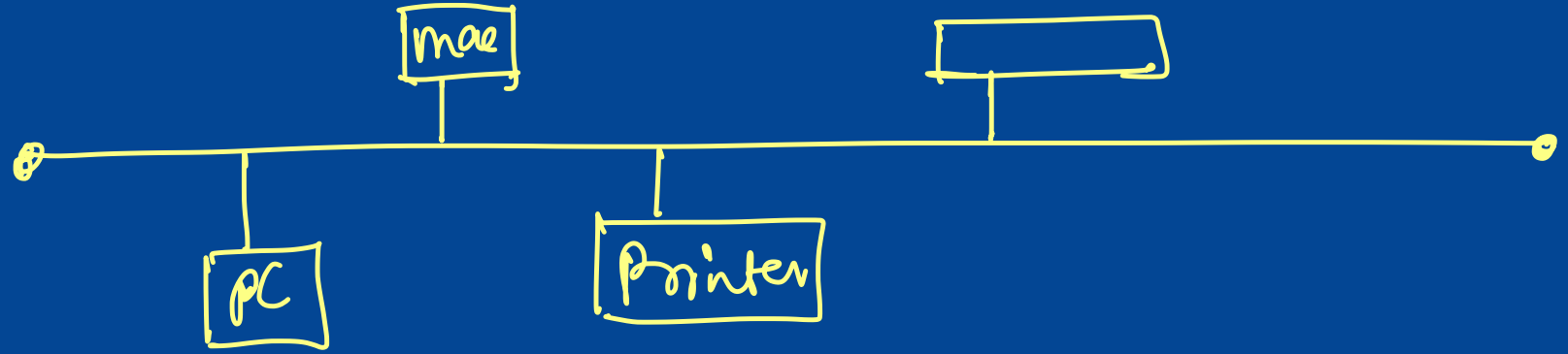
- (a) Drives
 - (b) Drive bays
 - ✓ (c) Modems \Rightarrow Full form Modulator - Demodulator
 - (d) Platforms
 - (e) None of these
- MODEM



06

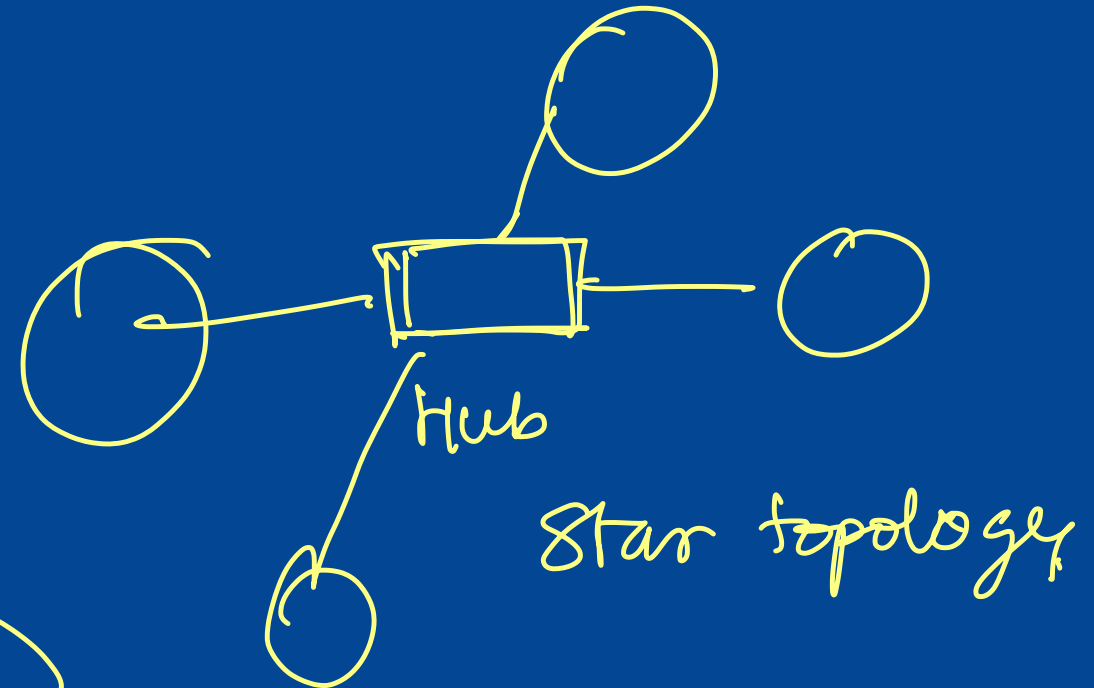
Servers are computers that provide resources to other computers connected to a :

- ☒ (a) Network .
 - (b) mainframe
 - (c) Supercomputer
 - (d) client .
 - (e) None of these .
- Types of computer



Network components are connected to the same cable in the _____ topology.

- (a) Star
- (b) Ring
- (c) ☒ Bus
- (d) Meal ~~X~~
- (e) None of these





PAN \Rightarrow Personal Area Network
Smallest of all

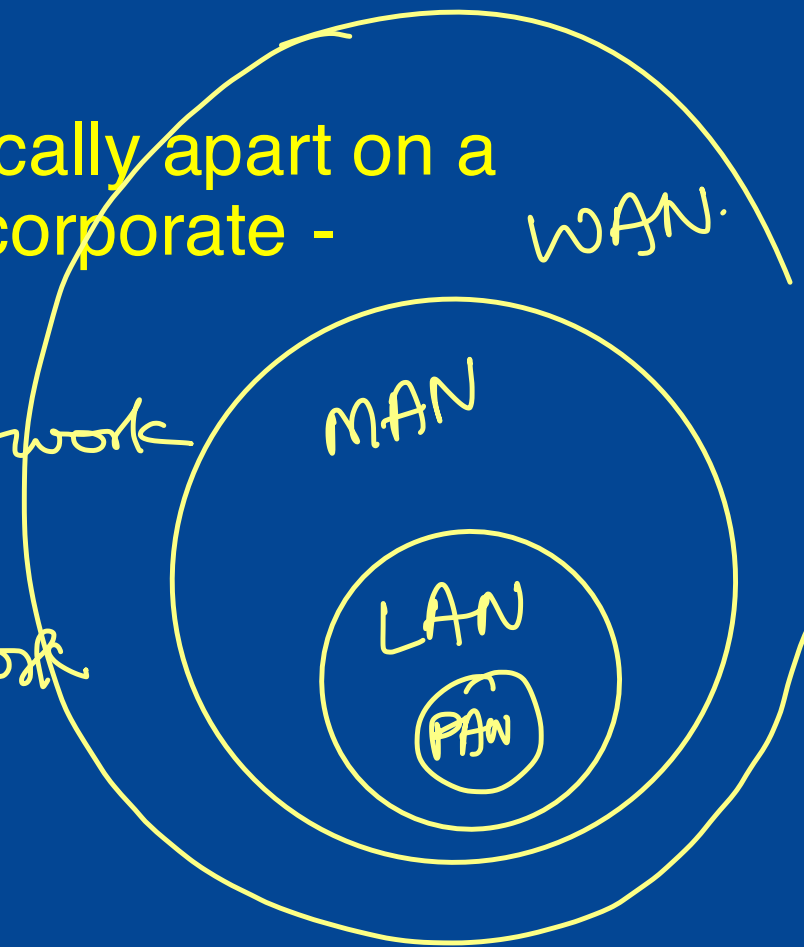
95+%
150

Office LANs that are spread geographically apart on a large scale can be connected using a corporate -

- (a) LAN \rightarrow local Area network
- (b) MAN \rightarrow Metropolitan Area Network
- (c) CAN \leftarrow
- ☒ (d) WAN \rightarrow Wide Area Network
- (e) None of these

\rightarrow Campus Area Network.

\Rightarrow limited geog. area LAN's connection



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09

The most powerful computer in a typical network-

- (a) desktop
- (b) network client
- ☒ (c) server
- (d) network station
- (e) None of these



10

A flow in a program that causes it to produce incorrect or inappropriate results is called a-

- ☒ (a) Bug
- ☐ (b) Byte
- ☐ (c) Case
- ☐ (d) Stylus
- ☐ (e) None of these



11

Personal computer can be connected together to form a ↓

- (a) Server .
- (b) Super Computer .
- ✓ (c) Network .
- (d) Enterprise .
- (e) None of these .



12

GitHub \rightarrow Pulling \Rightarrow Request for a file/repo.
 \rightarrow Push \Rightarrow File/Repo. send to the server. without server demand

The process of computer receiving information from a server in the internet is known as-

- (a) Pulling
- (b) Pushing
- ☒ (c) Downloading
- (d) Transferring
- (e) None of these



13

Which is the network operating system?

- ☒ (a) Unix.
- ☐ (b) DOS.
- ☐ (c) WIN95.
- ☐ (d) WIN98.
- ☐ (e) None of these



14

1960's

The network connecting several computers all over the world is -

- (a) Arpanet → First network US Defense Dept.
- ☒ (b) Internet ⇒ Interconnection of Network.
- (c) Network
- (d) Intranet ⇒ Closed network
- (e) None of these



→ Bits per second

What are the most commonly used transmission speeds in BPS used in data communication?

- (a) 300
- ☒ (b) 9600 BPS
- (c) 1200
- (d) 2600
- (e) None of these



IP Address

192.0.0.0 — 223.255.255.255
32 bits

What is the start range of class C network?

- (a) 127.0.0.1
- ✓ ~~(b)~~ 192.202.10.51
- (c) 228.202.10.51
- (d) 0.0.0.0
- (e) None of these

16



IP Address
Classification

Class A = 1.0.0.0 \longrightarrow 126.255.255.255

Class B = 128.0.0.0 \longrightarrow 191.255.255.255

Class C networks are defined by IP addresses in the range of 192.0.0.0 to 223.255.255.255.

The first three octets (24 bits) are used for the network portion, and the last octet (8 bits) is used for host addresses.

192.202.10.51 falls within the Class C range, making it a valid example of a Class C network address.

Class D range - (224.0.0.0 to 239.255.255.255)

$E \rightarrow 240.0.0.0 \Rightarrow 255.255.255.255$



17

Which of the following is used for modulation and demodulation?

- ☒ (a) Modem
- (b) Protocols
- (c) Gateway
- (d) Multiplexer
- (e) None of these



18

given statement is
incorrect for disadvantage
Wi-Fi

Which of the following is not a disadvantage of wireless LAN?

- (a) Slower data transmission ☒
- (b) Higher error rate ☒
- (c) Interference of transmissions from different computers ☒
- ☒ (d) All of the above
- (e) None of these



19

Which of the following code used in present day computing was developed by IBM Corporation?

- (a) ASCII
- ☒ (b) EBCDIC code
- (c) Hollerith code
- (d) binary code
- (e) All of the above



- * EBCDIC (Extended Binary Coded Decimal Interchange Code): Developed by IBM in the early 1960s, it is primarily used in IBM mainframe and midrange systems.
- * ASCII (American Standard Code for Information Interchange): Developed by a committee, not IBM, and is widely used in modern computing. ~
- Hollerith Code: Developed by Herman Hollerith for punch cards, but it is not used in present-day computing. (X)
- Binary Code: A fundamental system of representing data, not specific to IBM.



20

Which of the following TCP/IP protocol is used for transferring electronic mail messages from one machine to another?

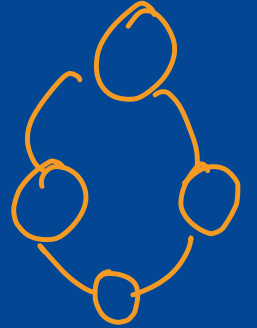
- (a) SMTP \Rightarrow Simple Mail Transfer Protocol.
 - (b) FTP \Rightarrow File Transfer Protocol.
 - (c) POP \Rightarrow Post office Protocol
 - (d) HTTP \Rightarrow HyperText Transfer Protocol
 - (e) None of these
- HTTPS \Rightarrow Secure



21

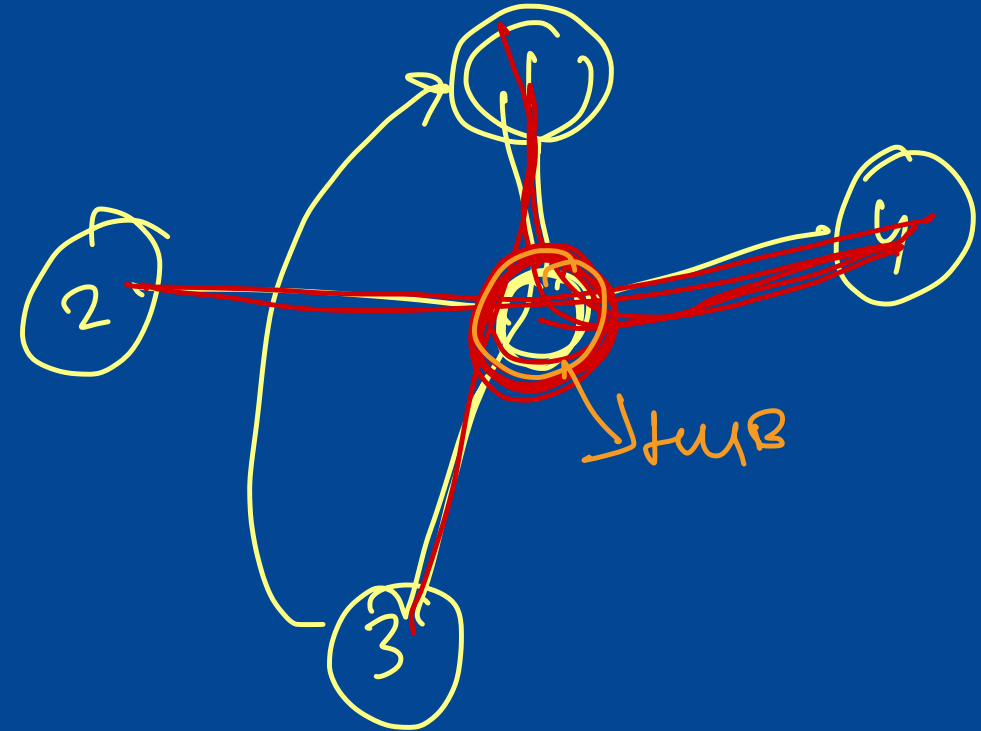
Which of the following device is used to connect two systems, especially if the systems use different protocols?

- (a) Hub
- (b) Bridges
- ☒ (c) Gateway \Rightarrow translate the incompatible protocols.
- (d) Repeater
- (e) None of these



A distributed network configuration in which all data/information pass through a central computer is:

- (a) Bus
- ☒ (b) Star
- (c) Ring
- (d) Point to Point ☒
- (e) None of these

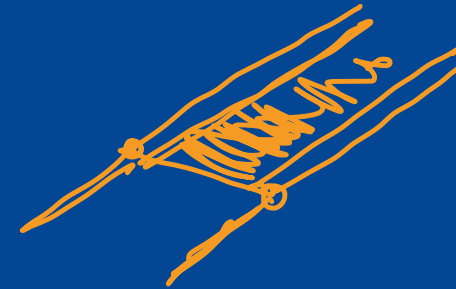


A remote batch-processing operation in which data is solely input to a central computer would require a:

- (a) Telegraph line ~~(X)~~ \rightarrow modern comm.
- \checkmark (b) ~~(X)~~ Simplex line \rightarrow data flow is unidirectional
- (c) Mixband channel ~~(X)~~
- (d) All of the above ~~(X)~~
- (e) None of these ~~(X)~~

The slowest transmission speeds are of ____ cable

- (a) fibre optics cable →
- ☒ (b) two wire open line →
- (c) co-axial →
- (d) Microwave →
- (e) None of these





25

To connect a computer with a device in the same room, you might be likely to use:

- (a) Satellite communication ·
- (b) Coaxial cable ·
- (c) Dedicated line ·
- (d) Microwave ·
- (e) None of these ·



26

Internet-like networks within an enterprise known as:

- ✓ (a) Intranet
- (b) Internet
- (c) Extranet
- (d) Network
- (e) None of these



27

How many bits internet address is assigned to each host on a TCP/IP internet which is used in all communications with the host?

- (a) 32 bit \Rightarrow 1P v4
- (b) 64 bit
- (c) 128 bit \Rightarrow 1P v6
- (d) 256 bit
- (e) None of these



28

Which of the following types of channels moves data relatively slowly?

- (a) Wideband channel *↑ Higher*
- (b) Voice-band channel *⇒ telephone/mobile*
- ☒ (c) Narrowband channel *⇒ low data rates*
- (d) Broadband channel *(X)*
- (e) None of these



- **Narrowband Channel:** Designed for low data rates and typically used for applications like telegraphy or low-speed data transmission. It has limited bandwidth, resulting in slower data transfer.
- **Voice-band Channel:** Used for voice communication (e.g., telephone lines) and supports moderate data rates.
- **Wideband Channel:** Supports higher data rates than narrowband and voice-band channels.
- **Broadband Channel:** Provides high-speed data transmission, capable of handling large amounts of data.



29

Which of the following is required to communicate between two computers?

- (a) communications software
- (b) protocol
- (c) communications hardware
- (d) access to transmission medium
- ☒ (e) All of the above

_____ devices is used to connect two similar LAN with same protocols

- ✓ (a) Bridges
- (b) Router
- (c) Gateway ✓
- (d) switch
- (e) None of these

same protocol. \Rightarrow bridge



diff.





HTTP \Rightarrow 80
HTTPS \Rightarrow 443

USB
C Port

HDMI

A port is a connector located on the-

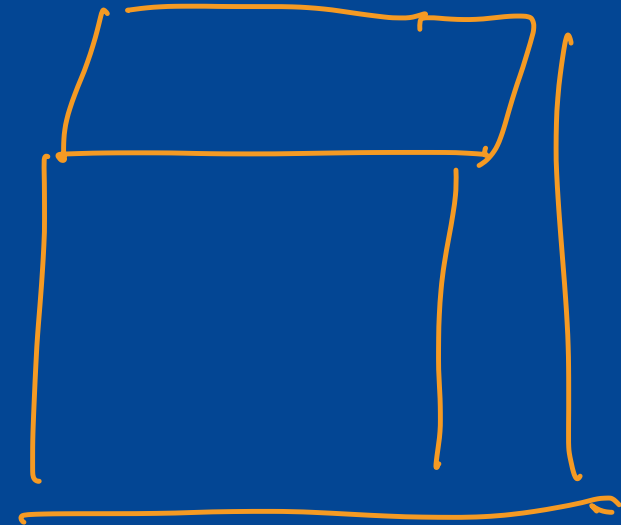
(a) Motherboard

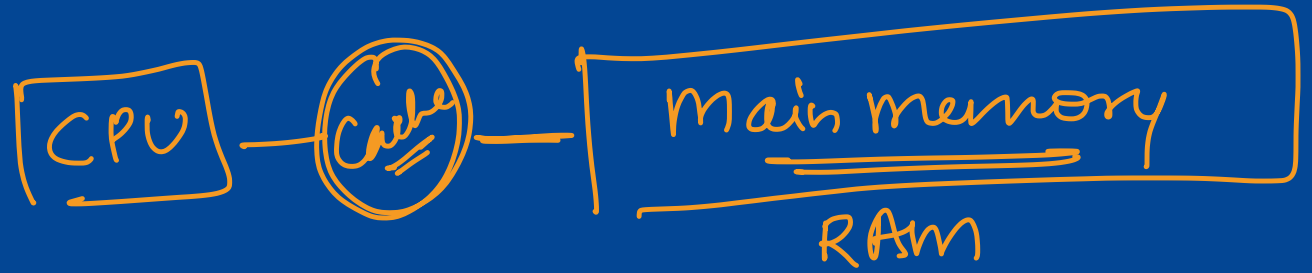
(b) RAM (X)

(c) CPU \leftarrow Processor (X)

(d) ROM \leftarrow (X)

(e) None of these





32

... is a high speed memory that can be used in between CPU and main memory

- (a) CPU
- (b) buffer
- (c) Spooling
- ☒ (d) Cache
- (e) None of these



$$1 \text{ kb} = 1024 \text{ bytes} \Rightarrow \boxed{1 \text{ Byte}} = \underline{8} \text{ bits}$$

1 nibble = 4 bits.

Storage capacity are frequently measured in-

- (a) Hz \Rightarrow frequency. GHz
- ☒ (b) Byte
- (c) MIPS \Rightarrow Million Instructions Per Second.
- (d) bps \Rightarrow Bits per second.
- (e) None of these



34

A firewall is:

- ☒ (a) used to protect a computer from unauthorized user
- (b) a form of virus
- (c) a screen saver program
- (d) all of the above
- (e) None of these



35

A proxy server is:

- ☒ (a) a backup server
- ☐ (b) an email server ✗
- ☐ (c) a poor file server ✗
- ☐ (d) all of the above ✗
- ☐ (e) None of these ✗



36

A nanosecond is:

- (a) 10^{-6} sec
- (b) 10^{-3} sec
- (c) 10^{-12} sec
- ✓ (d) 10^{-9} sec → nanosecond
- (e) None of these



- millisecond 10^{-3} = 1/1,000
- microsecond 10^{-6} = 1/1,000,000
- nanosecond 10^{-9} = 1/1,000,000,000
- picosecond 10^{-12} = 1/1,000,000,000,000
- femtosecond 10^{-15} = 1/1,000,000,000,000,000



37

The resolution of an SVGA screen is:

- (a) 1024 x 768
- (b) 512 x 512 ✗
- ✓ (c) 640 x 480
- (d) 800 x 800 ✗
- (e) None of these



38

→ time taken to read or write data.

Disk access time is-

- (a) seek time
- (b) Latency time
- ☒ (c) Seek time + Latency time
- (d) Disk time
- (e) None of these



39

The communication mode that supports two-way traffic but only one direction at a time is:

- (a) Simplex
- (b) Duplex. \longrightarrow Full duplex.
- ~~(c) Half duplex~~
- (d) All
- (e) None of these



40

40 comp.

PDF

An example of an analog communication method is:

- (a) Laser beam
- (b) Microwave
- (c) Telephone line
- ☒ (d) All of the above
- (e) None of these



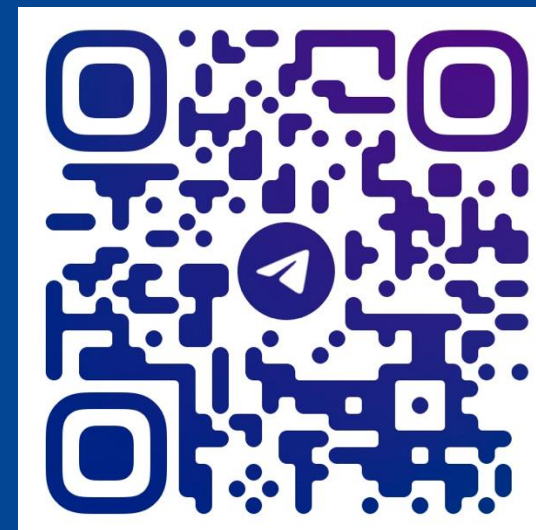
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series
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