1. Hyperiedger fabric - It is a modular frame work that acts as a foundation for developing blockchain based products, solutions & applications using plug & play components that are aimed for use within private enterprise

Huperledgen fabric is private & nequine permission to access, business can't negenerate info, plus triansaction can be speed up as number of nodes on the network is neduced.

Traditional blockchain networks can't support private transaction & confidential contracts that are of atmost importance. Hyperledger fabric was designed in response to this as a modular scalable & secure foundation for offering industrial blockchain.

Modular architecture of hyperledger fabric separates transactions processing into 3 stages

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- 1. SMARTT CONTRACTS
- 2. TRANSACTION ORDERING
- 3. TRANSACTION VALIDATION & CONMITMENT

Different noles in the network can have:

- I ENDOSER
- 2. COMITTER
- 3. CONSENTER

PROPERTIES		BITTOIN	ETHEREUM	MYPERLEOMER
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- 2. PRACTICAL BYZANTINE FAULT TOLERACE ALMORITHM:
- → BFT is ability of a distributed computer

  network to councily reach a sufficient

  consensus despite mallicious nodes in system

  failing on sending out incorrect info.

  → The goal of BFT is to protect against

  catastrophic system failure by reducing the

  inforence of malicious nodes
- -> PBFT is an application that optimizes aspects of PBFT & has been implemented in several modern distributed computer systems, including blockchain platforms.
- -> PBFT concersus grounds are called views 8 broken in 4 phases:
  - Client sends a nequest to the leader node le invoke a service operations
  - The deleading node broadcasts the request to the backup node.
  - 3. The node execute the neguest, then send a neply to the client 4. The client awaits neplies from different
  - nodes with the same nesult, where I nepresents the maximum number of poknHally fault nodes

- A blockchain project called hyperledges
  uses PBFT algorithm as one of its primary
  consensus mechanisms
- Hyperledger is private blockchain which doesn't prioritize being permissionless on a scalable to a large quantity of nodes which makes using PBFT.
- Another project. To Tex uses ondered advanced versions of PBFT. It's algorithm aims to achieve scalability by neducing amount of computational overhead.

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#	MCQ
1.	(D) ALL
2 .	(B) 2x+2
3.	(A) POW
۲.	(A)
5.	(D)
6.	(C) BOTH
7.	(D)
8.	(A)
9.	(A) PUBLIC KEY
( *	
10.	(C) BOOT MODE
11.	(D) ALL
12.	(C)
13.	(A) TRUE
14.	(c)
15.	(D) NONE
16.	(C) TRAGACTION FEE
17.	(A) TRUE
18.	(c)
19.	(BO (C)
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