Kubernetes – Interview Notes (Hindi + English)

# 1. Kubernetes Kya Hai?

Definition:  
Kubernetes ek open-source container orchestration system hai jo containers ko deploy, manage, scale aur monitor karne ka kaam karta hai.

# 2. Samajhne ke liye Simple Example

- Maan lo ki ek restaurant hai jisme kai chef kaam karte hain.  
- Har chef ko apna kitchen chahiye (container).  
- Sab chefs ka kaam ek manager manage karta hai — wahi Kubernetes hai.  
- Ye manager ensure karta hai ki kaam rukna nahi chahiye — koi sick ho jaye to doosra aa jaye, kaam badh jaaye to naye chef aa jayein.

# 3. Kubernetes Kya-Kya Karta Hai?

Container Management: Docker containers ko chalata hai  
Scaling: Traffic badhne par naye container bana deta hai  
Self-healing: Crash hone par container ko dubara start karta hai  
Load Balancing: Requests ko sab containers me equally divide karta hai  
Rollout & Rollback: Naya version deploy ya purane version pe wapas  
Resource Optimization: CPU, RAM ka smart use karta hai

# 4. Real-World Use Case

Ek e-commerce app (like Flipkart) ke backend me 20 microservices hain — user login, cart, payment, product listing etc.  
Har service ek container me hai. Kubernetes sabko coordinate karta hai:  
- Sab services up hain ya nahi?  
- Load badhne par extra containers lagein.  
- Crash hone par service auto-restart ho.

# 5. Industry Demand

- Cloud-native apps ke liye Kubernetes ek standard ban chuka hai.  
- Use hota hai:  
 - AWS (Amazon EKS)  
 - Google Cloud (GKE)  
 - Azure (AKS)  
- Companies:  
 - Infosys, TCS, Wipro, Amazon, Google, Flipkart, Netflix

# 6. Job Roles Jo Kubernetes Maangte Hain

- DevOps Engineer  
- Cloud Engineer  
- SRE (Site Reliability Engineer)  
- Platform Engineer

# 7. One-Line Punch (Easy to Remember)

“Kubernetes ek manager ki tarah hota hai jo applications ke containers ko smartly manage karta hai — jisse wo reliable aur scalable banti hain.”