**Core concepts – 19%**

Architecture, Etcd, kube-api-server, controller manager, schedular, kubelet, kubeProxy

Pod, ReplicaSet, Deployment, namespace, Service

**Scheduling – 5%**

Manual Scheduling, labels,selectors,Taint & Tolerations, Node Selector, Node affinity, Resources req & limits,

DaemonSet, Static pod, Multi Schedular, Schedular Events

**Logging & Monitoring – 5%**

Cluster logs, Node level logs, Pod application level logs

**Application Life Cycle management – 8%**

Rolling update,rollback,cmd & args, env, configmap, secrets, multi container pod, init pod,

Self healing – replicaset, liveness& readyness probe

**Cluster Maintanence – 11%**

OS upgrade, K8s software upgrade, cluster upgrade, backup & restore

**Storage – 7%**

Volumes, PV,PVC, use secret for mountpath

**Security – 12%**

TLS basics, create & view certificates, certificate API – CertificateSigingRequest, kubeconfig file, persistent key/value store,

API groups,RBAC, Cluster BAC,Image security, security contexts,network policy

**Networking – 11%**

Host networking, Docker networking, CNI, pod networking, CNI in k8s,weave, IpaM weave, DNS,Core DNS, Ingress

**Installation Hard way – 12%**

Design cluster, NW solution, HA cluster, Install all the components, end to end test, install & use kubeadm

**Trouble shoot – 10%**

Application failure, controle plane failure, worker node failure,networking failure

Other tips:

Easy kubectl commands