Item Bank ID	401007	Item Bank Name	SPPU Pune//.../ Dams and Hydraulic Structures

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
Which of the following dam is suitable for narrow valleys?	Arch dam	Steel dam	Coffer dam	Timber dam
According to the Hydraulic design, the dams are classified as _____	Diversion and Detention Dams	Storage and Diversion dams	Overflow and Non-overflow dam	Arch and Buttress dam
The water stored between the zone of minimum pool level and normal pool level is known as-	dead storage	valley storage	live storage	surcharge storage
_____dams are designed to pass the surplus water over their crest i.e. spillway.	Rigid dams	Non-rigid dams	Overflow dams	Non-overflow dams
_____ is a dam constructed to detain flood	Storage dam	Debris dam	Coffer dam	Diversion dam
_____contains less concrete or masonry about 35 to 40% for their construction.	Earthen dams	Rockfill dam	Solid masonry gravity dam	Hollow masonry gravity dam
Idduki dam in Kerala State is constructed across the _____river.	Perennial river	Nile river	Periyar river	Sutlej river

_____is used to measure dynamic loads in dams	Tilt Meter	Vibrating Wire Peizometer	Flow Meter	Seismometer
Following instrument is used to measure internal deformation and cracking	Extensometer	Joint meter	Flow meter	Tilt meter
Hanging pendulums are designed to monitor_____?	ground water pressure	lateral movements	uplift pressure	tilt and rotation
Porous tube piezometer are used to determine_____?	uplift pressure	tilt and rotation	Settlement in Foundation	lateral movements
Opening in the structure near the base, provided to clear the silt accumulation in the reservoir known as __	Spillway	Overflow portion	Gallery	Sluice way
What is the maximum permissible tensile stress for high concrete gravity dam under worst conditions?	500 KN/m^2	500 kg/cm^2	50 KN/m^2	50 kg/cm^2
Which failure occurs when the net horizontal force above any plane in the dam or at the base of the dam exceeds the frictional resistance developed at that level?	Overturning	Crushing	Sliding	BY development of tension
Which failure occurs when the minimum stress exceeds the allowable compressive stress of the dam material?	Overturning	Crushing	Sliding	BY development of tension
Tension cracks in the dam may sometimes lead to the failure of the structure by?	Crushing of concrete starting from the toe	Both overturning and crushing	Sliding of the dam at the cracked section	Overturning about the toe

The uplift pressure on the face of a drainage gallery in a dam is taken as ?	hydrostatic pressure at toe	average of hydrostatic pressure at toe and heel	two-third of hydrostatic pressure at toe plus one-third of hydrostatic pressure at heel	hydrostatic pressure at heel
The bottom portion of a concrete or a masonry gravity dam is usually stepped in order to _____	increase the overturning resistance of the dam	decrease the shear strength	increase the frictional resistance	increase the shear strength
The provision of drainage gallery in a gravity dam helps in reducing _____	hydrostatic pressure	seepage pressure	silt pressure	both hydrostatic pressure and seepage pressure
The back water effect of a weir is best called	Retrogression	Afflux	back water curve	fall