

University of Mumbai

Examination 2020

Program: BE CIVIL Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: CEC 605 and Course Name: Water Resources Engineering-I

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	With the increase in supplied irrigation water, the yield of crops:
Option A:	increases continuously
Option B:	decreases continuously
Option C:	increases up to a certain limit, and then becomes constant
Option D:	increases up to a certain limit, and then decreases.
Q2.	For irrigation purposes, the p-H value of water should be:
Option A:	Between 3 & 6
Option B:	Between 6 & 8.5
Option C:	Between 8.5 & 11
Option D:	More than 11
Q3.	The method of irrigation used for orchards is
Option A:	Free flooding
Option B:	Border flooding
Option C:	Check flooding
Option D:	Ring Basin flooding
Q4.	Maximum application rate by sprinklers is limited by
Option A:	the infiltration capacity of soil
Option B:	the prevailing wind velocity
Option C:	the quantity of water available
Option D:	the prevailing humidity and radiation
Q5.	The duty of irrigation water for a given crop is maximum:
Option A:	on the field
Option B:	at the head of the main canal
Option C:	at the head of the water-course
Option D:	none of them.
Q6.	The water which can be utilised by the crops from the soil is called:
Option A:	field capacity water
Option B:	capillary water
Option C:	hygroscopic water
Option D:	kor water

University of Mumbai
Examination 2020

Q7.	Infiltration rate is always
Option A:	more than the infiltration capacity
Option B:	less than the infiltration capacity
Option C:	equal to or less than the infiltration capacity
Option D:	equal to or more than the infiltration capacity
Q8.	A rain gauge should preferably be fixed
Option A:	near the building
Option B:	under the tree
Option C:	in an open space
Option D:	in a closed space
Q9.	In India, rain fall is generally recorded at
Option A:	12noon
Option B:	8 pm
Option C:	8 am
Option D:	4 pm
Q10.	When is the Hydrograph called as a unit hydrograph?
Option A:	When 1mm of runoff is resulted from a rain fall
Option B:	When 3cm of runoff is resulted from rainfall
Option C:	When 1cm of runoff is resulted from rainfall
Option D:	When 3mm of runoff is resulted from rainfall
Q11.	What does hydrograph based on day gives?
Option A:	Idea about flood period during the month
Option B:	Idea of rainfall
Option C:	Idea of draught during the year
Option D:	Idea of scarcity of water in the upcoming year
Q12.	The zone of aeration in a groundwater profile does not include _____
Option A:	capillary zone
Option B:	soil water zone
Option C:	intermediate zone
Option D:	saturation zone
Q13.	The line joining the static water levels in several wells excavated through a confined aquifer is known as the _____
Option A:	cone of depression
Option B:	piezometric surface
Option C:	perched water-table
Option D:	hypsothetic curve
Q14.	Darcy's law is valid in well hydraulics only if:

University of Mumbai
Examination 2020

Option A:	Reynold's number > 1
Option B:	Reynold's number < 1
Option C:	Reynold's number < 500
Option D:	Reynold's number > 500
Q15.	Yield of a reservoir represents _____.
Option A:	The inflow into the reservoir
Option B:	The capacity of the reservoir
Option C:	The outflow demand on the reservoir
Option D:	The optimum value of catchment yield
Q16.	Water tightness of reservoir basin is investigated under
Option A:	Geological survey
Option B:	Engineering Survey
Option C:	Hydrological Survey
Option D:	Topographical survey
Q17.	Frequency of irrigation is dependent upon the type of :
Option A:	soil and crop
Option B:	soil and climate
Option C:	soil, crop, and climate
Option D:	soil, crop, climate, and fertilizer.
Q18.	Direct irrigation is also known as:
Option A:	Reservoir irrigation
Option B:	Tank irrigation
Option C:	River irrigation
Option D:	Perennial irrigation
Q19.	Sugarcane is grown with the help of:
Option A:	Furrow method
Option B:	Border flooding
Option C:	Check flooding
Option D:	Basin flooding
Q20.	Kor-Watering is the irrigation water supplied to a crop:
Option A:	at the time of its sowing
Option B:	just before harvesting
Option C:	about three weeks after sowing
Option D:	about three weeks before harvesting
Q21.	The optimum depth of kor watering for rice is about:
Option A:	25 cm
Option B:	19 cm
Option C:	13.5 cm

University of Mumbai
Examination 2020

Option D:	9 cm.
Q22.	If the intensity of irrigation for Kharif is 55% and that for Rabi is 65%; then the annual intensity of irrigation, is:
Option A:	60%
Option B:	100%
Option C:	120%
Option D:	62.50%
Q23.	The units of specific capacity of a well are _____
Option A:	m ³ /sec
Option B:	m/sec
Option C:	m ² /sec
Option D:	no units
Q24.	The reservoir site should be such that it avoids or excludes water from the tributaries carrying
Option A:	Low percent of silt
Option B:	High percent of salts
Option C:	Low percent of minerals
Option D:	High percent of silt
Q25.	Provision of vegetation screen helps in reducing
Option A:	Water inflow
Option B:	Sheet erosion
Option C:	Sediment flow
Option D:	Density currents