

Sample Question Paper - General Civil Engineering

Discamer: This Question paper was designed for Internal assessment of Direct Recruits Class 1 Officers. The Actual syllabus may differ as per cadre.

Question No	Question Text	Correct Option no	Option 1	Option 2	Option 3	Option 4
1	Accelerator the setting time of Concrete.	2	Increases	Reduces	Have no effect	None of Above
2	if a RMC has to sent at a distance of 30 km, Must be added.	4	Accelerator	Water Reducer	Air entraining Agent	Retarder
3	Super plasticizers are used to....	2	Increase the water content	Reduce the watre content	Accelerate the setting time	None of Above
4	Nominal Mix (1:2:4) stands for Concrete	3	M10	M5	M15	M20
5	Which test is used to measure workability of concrete of Medium to Low Workability?	3	Slump Test	VB Consistency Test	Compaction Factor Test	None of Above
6	As we incese the W/C ratio..... Increases	1	Workability	Strength	Temperature	Homogenity
7	Min & Max setting time for concrete are...	4	40 min, 400 min	50 min, 500 min	60 min, 600 min	30 min, 600 min
8	Which test is suded to measure resistance of aggregate to wearing action?	3	Permeability Test	Compressive Test	Soundness Test	Aggregate Impact Test
9	pH value of the water used in concrete should not be less than	1	6	5	8	10
10	Grade of Concrete = Avg. Compressive strength -x Std. deviation	3	1.75	1.85	1.65	0.95
11	Constant Thread test is used as permeability test for Soils.	4	Silty	Clayey	Homogenous Clayey	Sandy
12	Which test is done to find out Bearing Capacity of Soils?	1	Plate Load Test	Shrear Test	Compression Test	Shrinkage Test
13	What is used to keep reinforcement at propoer place?	4	Monoblocks	Metal	Brick bats	Cover Blocks
14	Which vibrator is used to compact concrete in a Beam?	2	Surface	Needle	Roller	None of Above
15	Slump Test of Concrete is used to determine....	3	Strength	Durability	Workability	Water Content
16	Black Cotton Soil is unsuitable for foundations because its	4	Its bearing Capacity is low	Permeability is uncertain	Particles are cohesive	Property of Volumetric change when subjected to moisture
17	Pile foundations are suitable for	4	Water logged soils	Soft rocks	Compact Soils	None of Above
18	A solid core of rock is formed inside the cylinder in the case of.....	3	Auger Boring	Percussion Drilling	Diamond Drilling	Wash Boring
19	Closed contours of decesing values towards centre indicates	2	Hill	Depression	saddle	River bed
20	Two contour lines having same elevation....	1	can not cross each other	can not unite together	Can cross each other	can unite together
21	If a whole circle bearing of a line is 120 ^o , what will be its reduced bearing?	2	S 20 ^o E	S 60 ^o E	N 120 ^o E	N 60 ^o E
22	Manning's formula is used to calculate ...	1	Flow in open channel	Head loss in Friction in open channel	Flow through pipes	Loss of discharge in open Channel

23	What is the Notch angle for max. discharge over a triangular notch?	3	30°	60°	90°	120°
24	When no air is left below nappe and water stream adheres to the downstream face of the weir, it is known as....	2	Depressed Nappe	Clinging Nappe	Free Nappe	None of Above
25	Which fluid is used in case of Soil grouting?	4	Cement & Water mix	Clay Suspension	Sodium Silicate	All the Above
26	Seperation of Course aggregate from cement slurry is known as...	3	Bleeding	Creeping	Seggregation	Shrinkage
27	Which type of vibrator is used to compact plain concrete road surface of thickness less than 20 cm?	2	Internal vibrator	Screed Vibrator	Form vibrator	None of Above
28	Critical path lies along the activities havingtotal float	3	Positive	Negetive	Zero	Same
29	Middle Vaitarana is Type of dam.	1	Roler Compacted	Dense compacted	RCC	Earth
30	What is the main objective of construction of Middle Vaitarana Dam?	4	Irrigation	Power Generation	Industrial Use	Driking water supply
31	The contractor must pay..... At the time of submission of tender documents.	3	Security Deposit	Bank Gaurantee	Earnest Money	None of Above
32	Schedule A is a list of	3	Items of works to be carried out	references to general specifications	Materials to be supplied by department	Resources that contractor must have
33	According to which clause in B1 whole Security Deposite is forfeitted?	1	3	4	5	6
34	According to which clause in B1 extension of time limit is given to contractor?	2	5	6	8	10
35	According to which clause in B1 payement by reduced rate is given to contractor?	2	7	9	10	12
36	According to which clause in B1 payement of Royalty, Quarry fees arer refunded to contractor?	3	30	32	36	40
37	What are the benefits of PDN over open channel?	4	Reduces Seepage loss	Regular maintenance is not required	Same discharge to all users	All the Above
38	Which formula is used to calculate pipe diameter in PDN?	3	Manning's Formula	Chezy's Formula	William-Hazen Formula	Manning-Hazen Formula
39	Which software is used for analysis of Flood Lines in city?	2	AutoCAD	HECRAS	DGPS	Civil 3D
40	In which year, Land acquisition act is revised?	3	2011	2012	2013	2014
41	How many infra facilities should be given in Rehabilitated town?	3	18	20	25	27
42	As per DSO, what is the height for Category 1 Dams?	4	below 10 m	10-20 m	20-30 m	Above 30 m
43	As per DSO, what is the Storage capacity for Category 2 Dams?	2	> 60 Mm ³	15 to 60 Mm ³	5 to 10 Mm ³	Below 10 Mm ³
44	What is the limit of lead distance sanction for Cement for EE?	3	up to 5 km	up to 15 km	up to 25 km	up to 50 km
45	e-Tendering is used when the cost of tender exceeds Rs.....	1	3 Lakhs	5 Lakhs	10 Lakhs	50 Lakhs
46	SE can give technical Saction up to Rs.....	4	60 Lakhs	62.5 Lakhs	1 Cr.	2.5 Cr.
47	EE can accept tender up to Rs.....	1	50 Lakhs	25 Lakhs	3 Lakhs	1 Cr.
48	Pre-monsoon Inspection should be done before.....	3	15 April	30 April	15 May	31 May
49	by which clause of B1, contractor can claim for extra work for any item?	2	35	38	40	39
50	Which module is used for information of Estimate in e-Jalseva?	1	7	8	8.1	9