



Model Question Paper - 1

Ti	me-2.30 hrs						Max.Marks: 90	
			Par	t – I				
Cł	noose the correct ar	1SW	er				$(15 \times 1 = 15)$	
1.	For better visualiza	ıtioı	n, a house should	be c	onstructed on		plot.	
	a. elevated	b.	low lying	c.	rectangle	d.	square	
2.	The best suited size	e of	a bed room is					
	a. 4.00 x 3.00 m	b.	4.60 x 3.50 m	c.	3.60 x 4.60 m	d.	4.50 x 3.60 m	
3.	Aluminium powde aerated concrete.	r is	used at a rate of		by v	oluı	me in Autoclaved	
	a. 0.06 – 0.08 %	b.	0.07 - 0.08 %	c.	0.05 - 0.08 %	d.	0.04 - 0.08 %	
4.	Abbreviation of TN	ЛΤ	bar is					
	a. Thermo Mechanically Tested			b.	b. Thermo Mechanically Treated			
	c. Thermo Manua	lly '	Гested	d.	Techno Mechanio	cally	y Treated	
5.	Geodetic surveying	g is	also called		survey.			
	a. Aerial	b.	Astronomical	c.	Trigonometrical	d.	Plane	
6.	A level which repre	eser	its the average sea	a wat	er level is			
	a. Mean sea level	b.	Clean sea level	c.	Mid sea level	d.	Top sea level	
7.	i	mp	urities gives taste	, odo	ur, turbidity and o	colo	ur to water.	
	a. Chemical	b.	Physical	c.	Bacteriological	d.	Biological	
8.	Removal of		from wate	er is	known as Water so	ofte	ning.	
	e. Odour	f.	Turbidity	g.	Softness	h.	Hardness	
9.	The normal flow	of	sewage during	the	rainy season of	th	e year is called	
	a. Normal weather	r flo)W	b.	Dry weather flow	7		
	c. Wet weather flo	W		d.	Wet and Dry wea	the	r flow	

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10.	The overall length of Golden	n Quadrilatera	al is	km.
;	a. 5646 b. 6465	С	. 4656	d. 6456
11.	The rate of rise or fall of the	road along its	s alignment is calle	d
;	a. Sight distance b. Super	elevation c	. Road gradient	d. Camber
12.	is a pressu	re that a fluid	exerts when it is a	t rest.
;	a. Static pressure	b. Atmosp	heric pressure	
(c. Gauge pressure	d. Absolut	e pressure	
13.	The loss of head due to frict	ion is called _		
;	a. Secondary loss b. Pressi	are loss c	. Minor loss	d. Major loss
14.	is commo	nly used today	y to describe an ear	thquake's magnitude
;	a. Metric scale	b. Bio met	ric scale	
(c. Richter scale	d. Non-me	etric scale	
15.	are more	destructive an	d harmful to the so	ociety than any other
	weapon.			,
;	a. Machine gun	b. Antiairo	craft gun	
(c. Combat weapons	d. Nuclear	weapons	
		Part – l	I	
Ans	swer any ten questions in on	e or two sent	ences	
(Qu	estion number 28 is compu	lsory)		$(10 \times 3 = 30)$
16.	List the types of residential l	nouses.		
17.	Define - UPVC.			
18.	Write any four uses of glass	in buildings.		
19.	List the types of survey base	d on the natu	re of field of survey	ring.
20.	Write the purpose of chain s	urveying.		
21.	Write short note on screening	ng in water tre	eatment units.	
22.	Define Water carriage system	n in system of	f sanitation.	
23.	Write shortly about North –	South and Ea	st – West corridor	road project.
24.	Define – Sight distance.			
25.	Write the Darcy's formula to	find out head	l loss in terms of ve	locity and discharge
26.	Define – priming of pump.			
27.	List some of the natural disa	sters.		
28.	Write the causes of flood.			

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Answer any five questions briefly (Question number 35 is compulsory)

 $(5 \times 5 = 25)$

- 29. Write the uses of Ferro cement.
- 30. Write briefly the procedure of levelling up a dumpy level.
- 31. Write the objectives of water treatment.
- 32. Write briefly about soak pit used to dispose effluents from a septic tank.
- 33. Write briefly about Road curves.
- 34. Draw a diagram of centrifugal pump and mention its parts.
- 35. Write the precautions to be taken before and after a cyclone.

Part - IV

Answer both questions in detail

 $(2 \times 10 = 20)$

36. Write in detail about the benefits of constructing a verandah in a house.

(or)

The readings taken in a traverse using a dumpy level instrument are as follows: 1.315, 1.905, 2.500, 2.760, 0.755, 0.690, 1.330, 1.650, 1.695, 2.000, 2.765, 3.100 and 3.330. The instrument was shifted after 3^{rd} and, 8^{th} and 10^{th} readings. The R.L of Ist point is +300.00m. Enter the readings in a level look form and reduce the R.L of other points by any one method. Do the arithmetic check.

37. Write the construction procedure of a bituminous road in detail with sketch.

(or)

Determine the loss of head in a pipe line 200 mm diameter and 450m long. The discharge of Water through the pipe is 0.255 m³/sec. Take the value of friction factor as 0.002.





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Model Question Paper - 2

Tir	me-2.30 hrs				Max.Marks: 90
		Part	-I		
Ch	oose the correct an	iswer			$(15 \times 1 = 15)$
1.	During ancient tim	nes man used to live ir	ı		
	a) apartments	b) row houses	c) dens	d)	skyscraper.
2.	The room next to v	verandah is	·		
	a) bath room	b) pooja room	c) kitchen	d)	living room
3.	Light weight concr	rete reduces the	of the structu	re.	
	a) live load	b) dead load	c) wind load	d)	ice load
4.	The spread of self	compacting concrete i	anges from		_ inches.
	a) 1 to 32	b) 10 to 20	c) 20 to 40	d)	30 to 50.
5.	The length of a lin	k in a metric chain is	·		
	a) 0.1m	b) 0.2m	c) 0.3m	d)	0.5m.
6.	French cross staffs	are used for setting o	ut		
	a) acute angle	b) obtuse angle	c) straight angle	d)	right angle.
7.	In India the quant consumption.	tity of water required	for fire demand is _		of total
	a) 5 to 10%	b) 10 to 20%	c) 20 to 30%	d)	30 to 35%.
8.	The primary source	e of water is			
	a) rivers	b) sea	c) rain	d)	lake.
9.	The gradient of 1 r	netre diameter sewer	is		
	a) 1 in 100	b) 1 in 60	c) 1 in 120	d)	1 in 200.
10.	The mode of trans	port preferred for sma	all distance is		
	a) railway	b) road	c) water	d)	air.

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Model Questions - 2



Answer any five questions briefly

 $(5 \times 5 = 25)$

(Question number 35 is compulsory)

- 29. What are the properties of glass?
- 30. List the uses of GPS?
- 31. What are the impurities of water? Explain in brief.
- 32. List the important sewer appurtenances?
- 33. What is super elevation? How it is calculated?
- 34. Explain "vena contracta" with neat sketch.
- 35. Write short notes on "Cyclone".

Part-IV

Answer both questions in detail

 $(2 \times 10 = 20)$

36. What are the rooms in a residence? Explain any four.

or

The following staff readings were observed successively with a level. 0.875, 1.235, 2.310, 1.385, 2.930, 3.125, 4.125, 0.120, 1.875 and 2.030. The first reading taken on B.M. of elevation1 132.135m. The instrument has been moved after 2nd, 5th and 8th reading. Enter the readings in a field book form and reduce the R.Ls by any one method. Apply the usual checks.

37. What are the purposes of road arboriculture? How the trees are selected?

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A 300mm diameter and 600m long pipe connects two reservoirs. The difference in water pressure in two reservoirs is 3m. Determine the velocity of flow in the pipe. The Chezy's constant is 60.



