Roll No.

22

TEST CODE: PPJECI SIV

Question Paper

Civil Engineering, General Awareness, Reasoning and English

Time Allowed: 2 Hrs.

Question Booklet No.

2201151

Max. Marks : 100

DO NOT OPEN THE PAPER SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

INSTRUCTIONS FOR CANDIDATE

1. This Question-Booklet contains 100 Questions on the following:

Section	Subject Q. No.		Total Ques.	
Part-I	Civil Engineering	1-60	60	
Part-II	General Awareness, Reasoning and English	61-100	40	
	Total Questions		100	

- 2. There are 16 pages in this Booklet out of which Page No. 1 is for instructions to the candidates. Page Nos. 15 and 16 are meant for Rough Work and page nos. from 2 to 14 contain question of all parts. After opening of the Booklet and before you start answering the questions you must check up this booklet and ensure that it contains all the pages (1·16) and see that no page is missing or repeated. If you find any defect in this booklet, you must get it replaced immediately from the Invigilator within first 10 minutes of start of the Examination.
- 3. You must write you Roll Number in the space provided on the top left had side of Page No. 1 of this Question-
- You will be supplied a one page OMR Answer Sheet separately by the Invigilator. You must complete all the
 details at appropriate places in the OMR Answer sheet carefully, before you actually start answering the
 questions.
- 5. The instructions as given on the OMR Answer sheet, must be read carefully by the candidate and action in filling up the desired information in the columns writing a statement and marking the answer to the questions by Pen on Side I and Side II of the OMR Answer Sheet should be taken accordingly.
- All questions are compulsory. Each question carries one mark. There is negative marking; 1/4 mark will be deducted for each wrong answer.
- You are required to mark you answers only on the OMR Answer Sheet which has been provided to you separately with BLACK BALL POINT PEN ONLY.
- 8. Use of Books, Notes and copying and receiving/giving assistance is not allowed. Further, use of calculator separate or with watch, Tablets any type of mobile phones, Books, slide rules, foot rules, note books or written notes is also prohibited during the examination. Any candidate who is found either copying or receiving, giving assistance on using unfair means will be disqualified and his/her candidature will accordingly be cancelled.
- 9. The question booklet and OMR Answer Sheet supplied to the candidate must be returned intact to the room invigilator on completion of examination before you leave examination hall. Any candidate trying to tamper, take them away or found in unauthorized possession of booklet or OMR Answer sheet, is liable for cancellation of candidature or any legal action against him/her.

Page 1

	Civil Enginee	ring
Q1) Areinforced cement c a) homogeneous materia c) composite material	al b)	considered to be made of: heterogeneous material Isotropic material
 Q2) Apiezometer tube is u a) moderate pressure c) high pressure 	b)	asuring: low pressure vacuum pressure
Q3) The curvature of the survey is: a) less than 250 km ² c) less than 100 km ²	1	into consideration if the limit of more than 250 km ² more than 100 km ²
Q4) Granite is an example a) aqueous rocks c) igneous rocks	1	metamorphic rocks sedimentary rocks
Q5) The relation between and Base Period (B) in a) $\Delta = (8.64 \text{ B})/D$ c) $\Delta = (86.4 \text{ B})/D$	days:-	ares / cumec, Delta (Δ) in meters b) $\Delta = (864 \text{B}) / D$ c) $\Delta = (8640 \text{B}) / D$
Q6) The open wells are also shallow wells dug wells	o known as:- b d	
Q7) The headquarter of Inc a) Mumbai c) Chennai	dian R oads Cong b d) New Delhi
Q8) A type of bond in a b alternate headers and	rick masonry i stretchers, is ca	n which each course consist of
a) English bond c) Header bond	b) d)	

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Γ	Q9)	Efflorescence in cement caus	ed due to the excess of:
		Alkalies b) Lime	c) Silica d) Iron-Oxide
1			offortively held in position
-	Q 10)	The effective length of a colu	mn with one end effectively held in position otation and partially restrained against
١		and restrained against r rotation but not held in posi-	tion at the other end is:
1		0.65 L b) 0.8 L	c) 1.5 L d) L
Ĩ	a)	0.65L b) 0.5L	
- 1	O11)	The size of sten commonly ad	lopted for residential building is:
1	a)	250 mm x 160 mm	b) 300 mm x 130 mm
۱	c)	270 mm x 150 mm	d) 350 mm x 125 mm
	4	a sum of the sum of th	
-	Q12	According to Indian Roads	Congress, the maximum width of a road
		vehicle is:	1) 0.55
	a)	2.25 m b) 2.35 m	c) 2.45 m d) 2.55 m
-			· I - lovation is '-
		The main advantage of prov	of fact moving vehicles
	a)	to increase the stability of the to decrease the intensity of s	tresses on the foundation
	p)	only (a) is correct	of Cases of the Post of the Po
	c) d)	both (a) and (b) are correct	
	Q14) The modulus of elasticity (E) for mild steel is approximately equal to:
	a)	10kN/mm ²	b) 100 KM / mm
	c)	$210 \mathrm{kN/mm^2}$	d) 200 kN/mm ²
	1		
	1000 000		
	Q18		rect stress, is called
	a)	shortcolumn	b) weak column
	77		b) weak column d) medium column
,	a) c)	short column long column	d) medium column
,	a) c) Q10	short column long column 3) Which of the following pain	b) weak column d) medium column t is highly resistant to fire:-
7	a) c)	short column long column	d) medium column

Q17) Agood building stone is one which	A good building stone is one which does not absorb more than of its weight of water after 24 hrs immersion:				
a) 5% b) 10% c)	20 % d) 30 %				
010) 75-41-1					
Q18) The thickness of road surfacing d a) type of material	epends upon the:				
a) type of material c) only (b)	b) intensity of traffic				
c) only (b)	d) both (a) & (b)				
Q19) Ariveted joint may fail by:					
a) Shearing of rivets					
b) tearing of the plate across a row o	Cuivada				
c) tearing of the plate across a row of the plate at an edge	Trivets				
d) any one of these					
any one of those					
Q20) When 1 cm on a map represents 1	Om on the ground the remarkation				
fraction of the scale is:	to mon the ground, the representative				
a) 1/10	b) 1/100				
c) 1/1000	d) 1/10000				
	W 1710000				
Q21) The commonly used lime in white	washingie:-				
a) fat lime	b) hydraulic lime				
c) quick lime	d) lean lime				
	3, 3, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,				
Q22) Mean Sea Level for India is:	and the second s				
a) MSL at Chennai	b) MSL at Bombay				
c) MSLat Karachi	d) MSL at Vishakapatnam				
Q23) The presence of	causes red colour in water:				
a) iron	b) calcium carbonate				
c) manganese	d) sodium fluoride				
Q24) The rail gauge is distance between	n:				
a) outer faces of rails	b) running faces of rails				
c) centre to centre of rails	d) none of these				
Q25) Aqueen post truss is commonly us	ed for spans:-				
a) $upto 3.5 m$	b) from 3.5 m to 5 m				
c) from 5 m to 8 m	d) from 8 m to 12 m				
D					
Page					

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The second second	Q26) a)	For highly loaded columns, the conc M 15 b) M 20 c)	rete m M 25	
	Q27) a) c)	The bending equation is: $M/I = \sigma/y = E/R$ $I/M = y/\sigma = E/R$	b) d)	$I/M = \sigma/y = E/R$ $M/I = \sigma/y = R/E$
	Q28) a) c)	Which of the following cements compressive strength after 3 days? ordinary portland cement rapid hardening cement	b) d)	pected to have the highest high alumina cement portland pozzolana cement
	Q29) a) c)	According to the Unwin's formula, the d= $t\sqrt{6}$ d= $t\sqrt{6}$.6	ne nom b) d)	ninal diameter of rivet is: $d = 6 \sqrt{t}$ $d = 6.6 \sqrt{t}$
	Q30) a) c)	High turbidity of water can be deter Jacksons turbidimeter Bayli's turbidimeter	mined b) d)	by: turbidity tube none of these
0.000	Q31) a) c)	On an average, the domestic consumant Indian city as per IS: 1172-1971 115 litres/day/person 135 litres/day/person	mption is exp b) d)	n under normal conditions in ected to be around: - 125 litres/day/person 145 litres/day/person
	Q32) a) b) c) d)	Porosity is: Volume of voids / Volume of solids Volume of voids / Total Volume Volume of water / Volume of solids Volume of air / Volume of voids		
	Q33) a) c)	The permissible pH values for public 4.5 to 6.5 8.5 to 10.5	water b) d)	r supplies is in the range: 6.6 to 8.5 10.5 to 14.5
	Q34) a) c)	Water hammer pressure can be redufast closing valves critically closing time valves	ced by b) d)	using: slow closing valves none of the above
I		Page 5	es.	

Q	35) The angle of inclined plane		
	the pane is called the:	it which	a body just begins to slide down
a)	Angle of friction		
(c)	Angle of plane	b)	
	, pane	. d)	none of the above
Q:	36) The size of a standard brick is:		
a)	180 x 80 x 80 mm		
c)	195 x 95 x 95 mm	b)	$190 \times 90 \times 90 \text{ mm}$
1		d)	$200 \times 90 \times 90 \text{ mm}$
Qa	7) The preparation of the		
	7) The preparation of the surface stones of required size and share	of stone t	o obtain plain edges or to obtain
a)	stones of required size and shap Quarrying of stones	SO TO TETTO	vii as
c)	blasting of stones	b)	dressing of stones
	or stones	d)	seasoning of stones
Q3	8) The moisture	*	
a)	8) The moisture content in a wells 4 % to 6 %	easoned	timber is:
c)	15 % to 20 %	(b)	10 % to 12 %
"	10 70 60 20 70	d)	100%
Q30	Thomaining 1		
a)	The main ingredients of Portlan Lime and silica	dcemen	tare:-
c)	Silica and alumina	b)	Lime and alumina
/	omea and arumina	d)	Lime and iron
Q40	The initial		
Q IO	The initial setting time for of specifications should not be less	ordinary	Portland cement as non IC
a) .	specifications should not be less 10 minutes	than:-	sement as per 15
\tilde{c}	60 minutes	b)	30 minutes
٥,	oo innutes	d)	90 minutes
Q41	AG		
a) 1		nent:-	
c)	accieases	b)	increases
0)	remains same	d)	may increase or decrease
Q42)	ML 1	4 22 62	and all of decrease
a)		sconcret	e is about :-
c)		b)	50 mm to 100 mm
()	100 mm to 125 mm	d)	125 mm to 150 mm
040)	m		
Q43)	The ultimate tensile strength of s 160 N/mm ²	tructura	mild stool is about
a) c)	100 N/mm²	b)	260 N/mm ²
3)	$420\mathrm{N/mm^2}$	ď	520 N/mm ²
	· · · · · · · · · · · · · · · · · · ·		2-011/ HIIII
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Q44)	The vehicle used in case of oil paints is usually: Linseed oil b) Water				
c)	Varnish	d)	None of the above		
Q45)	The type of bond provided in brick masonry for carrying heavy loads is:				
a) c)	Single Flemish bond English bond	b) d)	Double Flemish bond Zigzag bond		
Q46)	The type of footing which is used to columns is:	transi	mit heavy loads through steel		
a) c)	Raft foundation Well foundation	b)	Grillage foundation Isolated footing		
Q47) a) c)	The bearing capacity of a water log Compacting the soil Increasing the depth of foundation		il can be improved by: b) Draining the soil d) Grouting		
Q48)	The type of roof suitable in plaitemperature is high is:	ns wh	nere rainfall is meager and		
a) c)	Pitched and sloping roof Shell roof		b) Flat roofd) None of the above		
Q49)	Which of the following type of estim Engineering works:	ate(s)	is/are used in Civil		
a) c)	Approximate Estimate Detailed Estimate	b)	Plinth Area Estimate All of the above		
Q 50)	The principle of 'working from who because:	nole to	part' is used in surveying		
a) b)	Plotting becomes easy Survey work can be completed quick	-1			
c)	Accumulation of errors is prevented All of the above	l I			
Q51)	If the staff is not held vertical at the	lovolli			
	calculated from the observation wol	ıld be:			
	True R L Less than True R L	b)	More than True R L None of the above		
	Page 7	-			

Q52) The time C
Q52) The type of surveying which requires least office work is:
a) Tacheometry b) Trigonometrical level!
I do I lane table cum come
Theodolite surveying
Q53) The ratio of tensile to compressive strength of concrete is:
a) 0.025 tensile to compressive strength of concrete is:
a) 0.025 b) 0.04 c) 0.1 d) 0.4
Q54) Contour or contour lines are the imaginary lines:
a) joining points of equal present imaginary lines:
a) joining points of equal present the imaginary lines: b) joining points of equal present the ground
b) joining points of equal pressure on the ground c) joining points of equal rainfall on the ground joining points of equal elevation
d) None of the above
- CA
Q55) Which of the following grades of
Q55) Which of the following grades of concrete would you recommend to
a) W/5 b) M15
a) M 7.5 b) M 15 c) M 20 d) M 30
cement concrete is limited to:
a) One fourth the minimum thicker a
d) None of the above
of offeabove
057) A 1
Q57) A beam is likely to have maximum crack width at failure when
designed by:
Working Stress Method
C/ Limit State M 11 1
d) None of the above
a) Interior column in a building
Exterior column in a huilding
Column partly submorged in
d) Column fully submerged in sea water
submerged in sea water
Q59) As compared to field winner a
the state of the s
d) any of the above

Page 8

	Q60) a) b) c) d)	Chimney Suspended roof Bridge All the above	
	14	GENERAL KNO	DWLF.DGE -
	Q61) a) c)	The Cnar Minar is in: Immedabad b) Ahmedanagar d)	Fatehpur Sikri Hyderabad
	Q62)	Who was the first woman to become	e the Prime Minister of a country in
	a) c)	the world: Benazir Bhuto b) Margaret Thatcher d)	Indira Gandhi Sirimavo Bandaranaike
	Q63) a) c)	Which of the following is not observed 26 January b) 5 September d)	ed in India as a National Holiday? 15 th August 2 nd October
	Q64) a)	The most ancient musical instrume Sarod b) Tabla c)	nt among the following is:- Veena d) Sitar
	Q65)	Which of the following is not a classi	cal dance?
١	a)	Kathak b) Kuchipudi	c) Garbha d) Odissi
ŀ	Q66)	The world famous Khajuraho Sculp	tures are located in :-
	a)	Gujarat	b) Maharashtra
l	c)	Madhya Pradesh	d) Orissa
l			
ı	Q67)		
	a)	Wellington	b) New Delhi
ı	c)	Dehradun	d) Kharagwasla
ı			
L	7	Page 9	

	Q68) The state with smallest regulation in I
	a) Silling 1)
	a) Sikkim b) Goa c) Mizoram d) Meghalaya
ŀ	Q69) The birthday of which of the & 11
-1	Q69) The birthday of which of the following leaders is observed as Children's
1	a) Mrs Indire (11:
١	c) Atal Ditari D
١	d) Jawahar Lal Nehru
ı	
1	Q70) ISI stands for:
1	a) International Standards Institute
1	b) Indian Statistical Institute
1	c) Indian Standards Institution
1	d) Indian Services Institute
ı	
L	Q71) In the number series given below
ı	Q71) In the number series given below one number is missing. Find out the missing number from amongst the choices
ı	2, 8, 26, 80,
١.	0) 100
	a) 120 b) 160 c) 222 d) 242
	Q72) Car: Petrol:: Television:?
8	a) Electricity
C	c) Entertainment D) Transmission
-	d) Antenna
(Q73) In the following questions, out of four given words three are alike in
•	
a	Circle b) Ellipse c) Sphere d) Cube
•	w Cube
þ	(74) Four groups of letters are given. Three of those have some similarity.
	- a chicout.
a)	cf b) ps
	by by c) wy d) LO
_	Deve (c)
	Page 10

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-		Q75)	P is the bro	other c	of Q and R.	S is R's	s mother.	T is P's	father. Which	ı of
	n e	e			tement can		× 8 3		* = 0	
		a)	Q is T's Son	1	200	ь)	Tis Q's F	ather		
		c)	Sis P's Mo	ther		d)	Pis S's So	n		
					•					
-	v v	Q76)		the alt	ernativest	he miss	ingnumbe	r which	can complete	the
			series:-						*	
		* 10	E 11 00 4							
		a)	5, 11, 23, 4° 63	b)	70	c)	95	d)	98	
		a) 	200	D)	10	C)	ฮอ	, u)	90	
	-1	Q77)	If CAT is v	ritten	as B Z S.	how car	AUNT be	writte	n using the sa	Ti ei
			code?			,	*************		* "	
-		a)	ZIMS	b)	ZTMS	c)	BVOU	d)	AVOU	
						in the second			* * * * * * * * * * * * * * * * * * *	
-			Choose the			C.				
	.:.	a)	Meter	b)	Yard	c)	Mile	d)	Acre	
	. 5	Q79)	In the felle	wing		a aut th	amous of l			.l
		Q (3)							rom amongst tetes the first a	
-	s -7,		begins the			pace, se	cii tiiat it	comple	tes the first a	ina
+			TOR(_)AI	R					
{		a) .	CK	b)	CH	c)	ESS	d)	KS	
1										
		Q80)	Root is to p	lant as	********	is to h	ıman beinş	g:-		
	65 60 to 10	-)	D	1.)	D1 1	<u> </u>	TT	1)		
	· /·	a)	Bone	b)	Blood	c)	Heart	d)	Pancreas	
					200					*
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Vegetal You sho takes a	ion (Q 81 – 85): Re llows by choosing t eat good food and h bles, fruits and dri ould also wear clea bath. He has egg, Lalit is very heal	ad the pass: he correct a nave a clean ink milk. Y n clothes. I	body you w	ill be health; eep for eight	y. You she hours ev	ould ea eryda
Q81) W a) ear c) dri	hat should you do t tonly vegetables ink only milk	o be healthy b) ea d) ea	?? at good food a at only fruits	and have a cl	0	B)
c) for	w long should you s eight hours seven hours		b) fo	r six hours		
c) earl	у			ersix hours er eight hour	rs.	# #
c) He w	y is Lalit a good boy akes a bath cears clean cloths		b) He d) All	eat good food	l	
	b) healt		C) Wea	r 21	50. TO 1	
Q86) Uman a) at	Q86-90): Fill in the strom the options ag lives b) for	Delhi.	ith appropri v.	ate articles/	determin	ers/
	s) for	c) Page 1	in	d)	with	

ı	Q87)	He flies.		aeroj	olane.				
ı	a)	an	b)	a	c)	the		d)	one
					2 *	92			
ļ							f t		
	a)	at	b)	on on	· (c)	to .		(d)	in
	Q89)	Foronex	zeek he	stayed as.	5 20 5				v v
	a)	we	b)	us	c)	our	uest.	d)	ours
1					٠,	our		u)	ours
	Q90)	I met		soldier	esterda	y.			· ()
	a)	the	b)	a	c) _	one		d)	an
l	D:	(0.03		. 61					20
	Direc	in capital	l – 95) -	: Choose t	he words	s <u>oppo</u>	<u>site</u> in mea	ning	to the ones
1	given	meapitan	s.	d.	g :	X			
l	Q91)	CRUEL			1	8			
ı		200		N THE STATE OF THE	5			i .	
l	a)	Kind	b)	Unkind	2	c) ·	Soft	d)	Comic
	000)	CDOWN				1			•
	Q9 2)	GROWTH	1						* ************************************
	a)	Dislike	b)	Decline		c)	Sorrow	d)	Poor
l	7 57		~/	Domine			Dollow	w)	roor
	Q9 3)	FAIR	*					7-1	
		_ *		*.		*	n u		
	a)	Foul	b)	Cheap		c)	Humble	d)	Weak
	Ω94)	DISTANT	,		***	3		٠.	
	√(∪ 1 /.	DIGIANI							
	a)	Long	b)	Constant		c)	Humble	d)	Near
								. –′	

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	Q95) WICKED		7 (1)
	a) Bad b) Mild	c) Good d) True	
	Directions (Occ		
	onesin and description of the characteristics	ose the words <u>similar</u> in meaning to t	ho
	ones in capitals.		110
	Q96) HUMANE	8	
-	a) vivid		
-	c) kind	b) huge	
		d) true	
1	Q97) LOYAL		
I			
	a) truthful	b) faithful	- 1
ľ	c) similar	b) faithful d) vivid	1
	Q98) MASSIVE		I
1	a) Huge		
	c) Many	b) Strong	1
l		d) Small	
9	Q99) MISERY		1
_) Loss		1
c,		b) Falsehood	I
C,	rraud	d) Sorrow	I
Q	2100) MALADY		
			1
a)		h) 711	l
c)	Beauty	b) Illness d) Liberty	
		d) Liberty	ĭ
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2	A saca	27	Α	52	Casum	77	В	1
3	В	28	B	53	C	78	D	1
4	C		B	54	C market	79	В	1
5	A	30	Α	55	A	80	C	-
6	D	31	C man-	56	A	81	В	
7	B	32	В	57	В	82	Α	1
8	B		B	58	C	83	C	
9	A	34	B	59	Α	84	D	
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11	A	36	В	61	D	86	c	
12	A	37	B Laux	62	D —	87	Α	~ O) :
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20	D =	44	A	69	D	94	D	
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