MAHARA. (State	JA RANJIT SINGI Univ. Estb by Punjab C	H PUNJAB TECHN Govt. Act No. 5(2015) and	ICAL UNIVERSITY Approved u/s 2(f) & 12(B)	BATHINDA (Pb) – 151001 of the UGC Act of 1956)
		D	iscipline: <u>CIVIL ENGINEE</u> I	RING
		(1	Faculty of Engineering &	Technology)
			* .	
	Roll No.	Date:	Signature of the	ne Candidate
Q1 The p	roperty by which a bo	dy returns to its origina	l shape after removal of	the force, is called
(a) Plastic	eity	(b) Elasticity	(c) Ductility	(d) Malleability
Q2 Maxir	num deflection of a ca	antilever due to pure be	nding moment M at its fr	ee end. is
$(a) \frac{ML^2}{3EI}$		(b) $\frac{ML^2}{4EI}$	(c) $\frac{ML^2}{6EI}$	
(u) 3EI		4EI	(C) 6EI	$(d) \frac{ML^2}{2EI}$
Q3 The su	am of normal stress is			
(a) consta	ant		(b) variable	
(c) depend	dent on the planes		(d) none of above	
Q4 The ef	ffective length of a bat	tened column is increase	sed by	
(a) 5%	(b) 10%	6	(c) 15%	(d) 20%
Q5 The m	oment which makes a	Il the fibres at the section	on to yield is known as	
(a) flexura			(b) moment of resistan	ce
(c) plastic	moment capacity		(d) yield moment	
Q6 The m	oment of inertia of a t	riangular section (heigh	nt h, base b) about its bas	e is
(a) $\frac{bh^2}{12}$		(b) $\frac{b^3h}{12}$		
(a) 12		(8) 12	$(c)\frac{b^2h}{12}$	$(d)\frac{bh^3}{12}$
Q7 The no	ominal thickness of an	expansion joint in bric	k wall, is kept more than	
(a) 5 mm		(b) 10 mm	(c) 15 mm	(d) 20 mm
Q8 For a g	good building stone, it	s specific gravity shoul	d be greater than	
(a) 1.7		(b) 1.5	(c) 2.2	(d) 2.7
Q9 As per	is 15658 : 2006 the w	vater absorption by mas	ss in individual sample	s should be restricted to
(a) 5%		(b) 7%	(c) 10%	(d) 15%
Q10 A oro	dinary portland cemer	nt when tested for its f	ineness, should not leave	e any residue on IS Sieve
no.9 more	than			
(a) 20%		(b) 5%	(c) 15%	(d) 10%

Q11 The horizontal members of panelled doors are known as				
(a) styles	(b) rails	(c) ledges	(d) bracings	
Q12 The reading taken from a	an instrument station on	a benchmark of 100.00	RL is 1.2 and the reading	
taken on next station is 1.70. T	Then RL of next station is	S		
(a) 99.50	(b) 98.30	(c) 98.80	(d) 100.50	
Q13 If whole circle bearing of	line is 120°, its reduced	bearing is		
(a) S 20°E	(b) S 60°E	(c) N 120°E	(d) N 60°E	
Q14 Garnetts diagram are used	for graphical solution o	f design equation of a ca	nal by	
(a) Laccy's theory		(b) Kennedy's theory	5	
(c) Gibb's theory		(d) Lindlay theory		
Q15 Precipitation includes				
(a) Rain	(b) Snow	(c) Hail	(d) All	
Q16 Military organization is ki	nown as			
(a) Line organization		(b) Line & staff organi	zation	
(c) Functional		(d) None of above		
Q17 Bureau of Indian Standard	d has divided India into _	number of earthq	uake zones	
(a) 4	(b) 5	(c) 6	(d) 7	
Q18 Suitable foundation for ste	eel columns is			
(a) Mat foundation		(b) Combined foundation	on	
(c) Strap footing		(d) Grillage footing		
Q19 Gantry girders are designed	ed to resist			
(a) vertical load from cranes		(b) longitudinal and ve	rtical loads	
(c) lateral, longitudinal and ver	tical loads	(d) lateral and longitud	inal loads	
		(u) lateral and longitud	illai loads	
Q20 If the height of the first sto				
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is	orey of a building is 3.2 (b) 12	m and riser is 13 cm, the	number of treads required (d) 32	

Q22 The maximum superimposed load is	permissible sle	enderness	ratio	of	compression	member	carrying	dead	and
(a) 180	(b) 200)		(c)	250	(d)	300		
Q23 Upto a height of _	wind pres	sure on a s	tructui	re is	considered to	be unifor	m.		
(a) 20 m	(b) 30 s	m		(c)	40 m	(d)	50 m		
Q24 Poise is the unit of	•								
(a) Viscosity				(b)	Mass density				
(c) Velocity Gradient				(d)	Kinematic Vis	scous			
Q25 The maximum thic	kness of boundr	y layer in a	a pipe	of ra	idius r is				
(a) 0	(b) r/2	2		c) r		(d)	2r		
Q26 1 stoke is equal to						70			
(a) 1 m ² /sec				(h)	$1 \times 10^{-2} \text{ m}^2/\text{sec}$				
(c) $1 \times 10^{-3} \text{ m}^2/\text{sec}$				(d) $1 \times 10^{-4} \text{ m}^2/\text{sec}$					
		atus Social Attack		(4)	10 111/300				
Q27 the stress strain rela	ation of the new	tonian fluid							
(a) parabolic					inverse type				
(c) hyperbolic				(d) l	inear				
Q28 If the coefficient of	of friction on the	road surf	ace is	0.15	and a maxim	num supe	r elevation	1 in 1	5 is
provided the maximum	speed of vehicle	s on a curv	e of 10	00 m	radius is				
(a) 32.44 km/h	(b) 42.4	4 km/h		(c) 5	52.44 km/h	(d)	62.44 km/	h	
Q29 Width of the should	ders of carriage v	way is gene	erally k	cept					
(a) 125 cm	(b) 150	cm		(c) 2	250 cm	(d)	350 cm		
Q30 Rail joint supported	d on a single si	eeper, is k	nown						
(a) Supported rail joint	(b) susp	ended rail	joint	(c)	square rail joir	nt (d)	Bridge rail	joint	
Q31 If the cross slope of	f terrain is 15, it	is classifie	d as						
(a) plain	(b) rolli	ng	((c) n	nountainous		(d) ste	еер	
Q32 A Pycnometer is us	ed to determine								
(a) Voids ratio			((b) I	Ory density				
(c) Density index			((d) V	Vater content				

Q33 A saturated soil sample ratio of soil is	as water content of 40%	6 and specific gravity of	soil particle 2.7. The void	
(a) 0.52	(b) 0.40	(c) 1.08	(d) 0.32	
Q34 The maximum water covolume of soil mass is known	ntent at which a reduct	ion in water content doe	es not cause a decrease in	
(a) Liquid limit		(b) Plastic limit		
(c) Permeability limit		(d) Shrinkage limit		
Q35 Uniformity coefficient of	a soil is			
(a) Always less than 1		(b) Always Equal to 1		
(c) Equal to or less than 1		(d) Equal to or greater than 1		
Q36 The amount of oxygen decomposition of sewage is kn (a) BOD		(c) COD	se the aerobic biological (d) All	
Q37 Fresh sewage is generally				
(a) Alkaline		(b) Acidic		
(c) Highly decomposed		(d) objectionable odour		
Q38 The pathogenes can be kil	lled by			
(a) nitrification	(b)chlorination	(c)oxidation	(d) none of the above	
Q39 The most commonly used	sewer under culverts is			
(a) Circular brick sewer		(b) Circular cast iron se	ewer	
		(d) horse shoe type sewer		
Q40 When Sodium-Absorption	Ratio (SAR) is 30, it is	called		
(a) low sodium water		(b) medium sodium wat	ter	
(c) high sodium water		(d) very high sodium water		

Civil,

Answer Key PET DEC 2018

Q	Ans	Q	Ans
1	b	21	b
2	d	22	a
3	a	23	b
4	b	24	a
5	c	25	c
6	d	26	d
7	d	27	d
8	d	28	c
9	b	29	c
10	d	30	a
11	b	31	b
12	a	32	d
13	b	33	c
14	b	34	d
15	d	35	d
16	a	36	b
17	a	37	a
18	d	38	b
19	c	39	a
20	a	40	d