210/2015

Maximum: 100 marks

Time: 1 hour and 15 minutes

[P.T.O.]

1.	The main	reinforcement in a simply supp	ported RCC	m	ember placed at:
	(A)	Top fibre	(B))	Side fibre
	(C)	Bottom fibre	(D)	None of these
2.	If the load	d at the free end cantilever bear	n is increase	ed	the failure will occur at the:
	(A)	Free end	(B))	Centre
	(C)	Support	(D))	None of the above
3.	Chemical	ly, marble is known as :			
	(A)	Siliceous rock	(B))	Metamorphic rock
	(C)	Argillaceous rock	(D))	Calcareous rock
4.	Brick lint	els are used when the span is:			
	(A)	Less than two meter	(B))	Less than three meter
	(C)	Less than one meter	(D))	None of these
5.	Mastic as	phalt is normally used for:			
	(A)	Sound insulation	(B))	Water proofing
	(C)	Fire proofing	(D))	None of these
6.	Limeston	e comes under the category of:			
	(A)	Aqueous rock	(B))	Sedimentary rock
	(C)	Stratified rock	(D))	All the above
7.	Plaster of	paris is obtained by calcining:			
	(A)	Gypsum	(B))	Kankar
	(C)	Lime stone	(D))	None of these
8.	The inner	curve of an arch is known as:			
	(A)	Spandril	(B))	Extrados
	(C)	Intrados or soffit	(D))	None of the above
			0		

9.	The frog	of a brick is normally made on its	s:	
	(A)	Shorter face	(B)	Bottom face
	(C)	Longer face	(D)	Top face
10.	The proje	ected portion of the tread beyond	the face of t	he riser is:
	(A)	Newel	(B)	Scotia
	(C)	Soffit	(D)	Nosing
11.	Dog- legg	ed stair is a :		
	(A)	Half-turn stair	(B)	Quarter turn stair
	(C)	Three quarter turn stair	(D)	Continuous stair
12.	The porti	on of the brick cut to form angles	other than	right angle in plan is known as :
	(A)	Queen closer	(B)	Squint brick
	(C)	Quoion brick	(D)	None of the above
13.	The cours	se of stone masonry provided at n as:	the top of a	wall and usually ornamental in shape
	(A)	Corbel	(B)	Throughting
	(C)	Projecting course	(D)	Cornice
14.	The mem	ber used in inclined position for s	supporting t	he strainer post is:
	(A)	Tension rod	(B)	Compression rod
	(C)	Strut	(D)	Tie beam
15.	An arrang	gement for supporting an unsafe	structure te	mporarily is known as :
	(A)	Pilling	(B)	Under pinning
	(C)	Scaffolding	(D)	Shoring
16.	The area	of any irregular figure plotted ma	ap is measur	red with:
	(A)	Pentagraph	(B)	Sextant
	(C)	Clinometer	(D)	Planimeter
17.	On a diag	onal scale, it is possible to read u	pto:	
	(A)	One dimension	(B)	Two dimension
	(C)	Three dimension	(D)	Four dimension
210/	2015		4	A

	(A)	Surface condition of the rod	(B)	Radius of the curve
	(C)	Speed of the vehicle	(D)	(B) and (C) above
19.	Contour l	ines close together indicate:		
	(A)	Gentle slope	(B)	Steep slope
	(C)	Plane ground	(D)	Valley
20.	The whole	e circle bearing of a line is 120°, its	s reduced b	pearing is:
	(A)	S30°E	(B)	N60°E
	(C)	N120°E	(D)	S60°E
21.	The simps	son's rule for determination of area	a is used w	hen the no . of offset is :
	(A)	Two	(B)	Three
	(C)	Even	(D)	Odd
22.	The zero	of the graduated circle of a prismat	cic compass	s is located a:
	(A)	South end	(B)	East end
	(C)	North end	(D)	Any one of these
23.	The work	ing edge of an alidade is known as		— edge.
	(A)	Ebonite	(B)	Fiducial
	(C)	Straight	(D)	Graduated
24.	Which typ	oe of foundation is provided on a w	eak soil?	
	(A)	Grillage	(B)	Column footing
	(C)	Raft foundation	(D)	All the above
25.	Vicat app	aratus is used for :		
	(A)	Consistency test	(B)	Test for setting time
	(C)	Test for tensile strength	(D)	None of these
26.	A hard wa	ater may contain:	Y-F-	
	(A)	Calcium carbonate	(B)	Magnesium Sulphate
	(C)	Magnesium bicarbonate	(D)	Any of the above

27.	Bleaching	g powder is:		
	(A)	Slaked lime	(B)	Chloride of lime
	(C)	Hypo-chlorite lime	(D)	None of the above
28.	Permaner	nt hardness of the water can be remove	ed by:	
	(A)	Adding lime	(B)	Adding chlorine
	(C)	Boiling	(D)	Zeolite process
29.	The waste	e water frome bathrooms, lavatory basi	ins, k	itchen etc are called
	(A)	Sullage	(B)	Night soil
	(C)	Waste soil	(D)	None of these
30.	The gas w	which is mainly responsible for explosio	n in s	ewers is called :
	(A)	Methane	(B)	Ethane
	(C)	Carbon Monoxide	(D)	None of the above
31.	For maxir	num alkalinity of water pH value shou	ld be :	
	(A)	Less than 7	(B)	More than 7
	(C)	21	(D)	14
32.	One Newt	on is equal to:		
	(A)	10 ⁴ dynes	(B)	10 ⁵ dynes
	(C)	106 dynes	(D)	10 ⁷ dynes
33.	The mome	ent of force is equivalent to:		
	(A)	The sum of the moments acting on a l	oody	
	(B)	The vertical sum of the moments acti	ng on	a body
	(C)	The algebraic sum of the moments ac	ting or	n a body
	(D)	None of the above		
34.	The prope	rty of a material by which it can be bea	ten o	r rolled into plates is called:
	(A)	Elasticity	(B)	Malleability
	(C)	Rigidity	(D)	Viscosity

6

A

210/2015

35.	Bending 1	moment on a section is maximu	ım where s	shea	r force is :
	(A)	2	((B)	5
	(C)	10	((D)	Zero
36.	Snowcem	is:			
	(A)	Mixture of lime and pigment	((B)	Chalk powder
	(C)	Coloured cement	((D)	None of the above
37.	Bressum	mer process is used for the man	ufacture o	f:	
	(A)	Pig Iron	((B)	Wrought Iron
	(C)	Cast Iron	((D)	Steel
38.	The cover	ing on the exposed top of the w	all is calle	d :	
	(A)	Cornice	(B)	Coping
	(C)	Corbel	((D)	Cramp
39.	Seasoning	g of timber is essential to remov	ve:		
	(A)	Knots from timber	(B)	Sap from timber
	(C)	Twisted fibre from timber	(D)	Roughness of timber
40.	The horiz	ontal member forming the bott	om of the f	fram	e is called as:
	(A)	Transom	(B)	Still
	(C)	Rail	(D)	Sill
41.	The maxi	mum percentage ingredient in	cement is t	that	of:
	(A)	Magnesium Oxide	(B)	Aluminium
	(C)	Silica	(D)	Lime
42.	Corrosion	resistance of stainless steel is	due to:		
	(A)	Sulphur	(B)	Manganese
	(C)	Chromium	(D)	Chromium Vanadium
43.	Alumina i	s:			
	(A)	Al ₂ O ₂		B)	Al ₂ SO ₄
	(C)	Al ₂ O ₃ Si O ₃	(D)	Al ₂ K ₂ SO ₄
A			7		

44.	The bean	ning capacity of a soil cannot l	be increased by	
	(A)	Grouting	(B)	Compacting
	(C)	Moistening the soil	(D)	Withdrawal of moisture from the soil
45.	The proce	ess of keeping concrete moist	for several days	after finishing is called:
	(A)	Peering	(B)	Setting
	(C)	Curing	(D)	Compacting
46.	Duco is th	ne trade name for:		
	(A)	Bituminous paint	(B)	Oil paint
	(C)	Cellulose paint	(D)	Water paint
47.	The mem	bers which support covering r	naterial of a slo	ping roof, are:
	(A)	Rafters	(B)	Purlins
	(C)	Battens	(D)	Strut
48.	The ratio is called:	of total volume of water deliv	vered to a crop t	to the area on which it has been spread
	(A)	Delta	(B)	Duty
	(C)	Base period	(D)	Run off
49.	Cross staf	f is an instrument used for:		
	(A)	Levelling	(B)	Inclination
	(C)	Setting out right angle	(D)	Measure horizontal distance
50.	The horizon	ontal angle between true mer	idian and magn	etic meridian is known as :
	(A)	Magnetic declination	(B)	The curvature of the earth
	(C)	Radiation	(D)	Altitude
51.	Broken st weather:	ones placed on earth surface	e for their prot	ection against the action of water or
	(A)	Regulator	(B)	Riprap
	(C)	Scour	(D)	Silt

02.	The apsu	cam nose of a bridge plet snaped for ea	ise an	a smooth now of water past it.
	(A)	Cut-water	(B)	Ease water
	(C)	Wing wall	(D)	Shutter
53.	The prope	erty of concrete which permits the perce	olation	n or passage of water through it:
	(A)	Permeability	(B)	Floating
	(C)	Cribbing	(D)	Ductility
54.	The forma	ation of a whitish loose powder or crust	on th	e surface of brick walls is called :
	(A)	Efflorescence	(B)	Extrados
	(C)	Haunch	(D)	Jambs
55.		— is made from ordinary clay, similare and the articles are porous and wea		that used for bricks, burnt at a low
	(A)	Stone ware	(B)	Earthen ware
	(C)	Terra-cotta	(D)	Hollow bricks
56.	The waste	e from furnace and resembles burnt coa	1:	
	(A)	Furnace slag	(B)	Clinker
	(C)	Coke breeze	(D)	Asbestos
57.		ng abrasive made artificially by mixing ne mixture is an electric furnace:	in ce	rtain proportions sand and carbon and
	(A)	Carborundum	(B)	Emery
	(C)	Coke	(D)	Ballast
58.	The increa	ase in volume of sand or aggregate caus	sed by	the absorption of water:
	(A)	Bleeding	(B)	Bulking
	. (C)	Cribbing	(D)	Curing
59.	An addition	onal floor ,gallery or balcony erected be	tween	the floor and ceiling of any storey:
	(A)	Landing	(B)	Mezzanine floor
	(C)	Mosaic floor	(D)	Lobby

9

210/2015 [P.T.O.]

A

210/	2015		10		A
	(C)	Penstock	(D)	Minor distributors	
	(A)	Perennial canal	(B)	Non-Perennial canal	
68.	A channel	which is designed to irr	igate during only par	rt of the year is:	
	(C)	Water closets	(D)	Drains	
	(A)	Waterseal	(B)	Flushing is terms	
67.	The vertice	eal distance between the	dip and crown weir	of a trap is known as:	
	(C)	100	(D)	10	
	(A)	99	(B)	200	
66.		s equal to ——— s		200	
0.0					
	(C)	0.7457	(D)	74.57	
	(A)	745.7	(B)	7457	
65.	One H.P.	how many kilo watts?			
	(C)	Relieving arch	(D)	None of the above	
	(A)	Jack arches	(B)	Segmental arch	
64.		— arch is built over mbent weight.	r a lintel or a fla	t arch to relieve the latter of	the
64					
	(C)	Gradient	(D)	Super elevation	
	norizonta (A)	l curve in a rod is called Sub way	: (B)	Camber	
63.	The inwa	rd tilt or transverse ind	elination given to th	e cross section of a carriage way	on a
	(C)	1200 kg/cu.m	(D)	1000 kg/cu.m	
	(A)	1600 kg/cu.m	(B)	1500 kg/cu.m	
62.	Lightweig	ght concrete weighing les	ss than:		
	(C)	Shoring	(D)	Underpinning	
	(A)	Scaffolding	(B)	Piling	
01.	foundatio	n:		enewing or repairing the lower wal	is o
61.	The prese	ogg of aumouting the avi	ating atmostrae for m	anomina ou noncipioa the lower wel	1
	(C)	Bay	(D)	North light	
	(A)	Dormer	(B)	Clarastorey	
00.	A small v	ertical window built in a	l sloping roof:		

69.	A junction under each		ms are di	vided to enable them to pass over or
	(A)	Fly over	(B)	Aqueduct
	(C)	Supper passage	(D)	Subway
70.	The stone is called:	aggregate is bound together by a	binder ap	plied to penetrate to the desired depth
	(A)	Asphalt	(B)	Macadam
	(C)	Gutter	(D)	Formation
71.	The looser	ning of the top surface of a road by	mechanica	al or other means:
	(A)	Scarifying	(B)	Stepping
	(C)	Stripping	(D)	Screenings
72.	The area	from which rainfall flows into a dra	inage line	e, out fall or reservoir etc:
	(A)	Rainfall	(B)	Run-off
	(C)	Catchments	(D)	Drains
73.	A tempora to the are	ary enclosure built to exclude water a within during the construction m	from the	working area and to permit free access dertaken below water level :
	(A)	Earthen dam	(B)	Gravity dam
	(C)	Caisson	(D)	Coffer-dam
74.	Removal	of sewage by a network of undergro	und pipel	ines or sewers with water:
	(A)	Conservancy system	(B)	Water carriage system
	(C)	Waste water system	(D)	One pipe system
75.	A ventilat	ing pipe connected to or close to th	e outlet si	de of a trap seal :
	(A)	Soil pipe	(B)	Siphonage pipe
	(C)	Antisiphonage pipe	(D)	Vent pipe
76.	gauge thi	— are available made of thin iron	plates of	flat, circular or oblong shapes in which
	(A)	Gauge measures	(B)	Sheet gauges
	(C)	R.S joists	(D)	Channels

77.	Purer fo	rm of coal and contains a majori	ty of carbon,	is produced from coal artificially:
	(A)		(B)	Coke
	(C)	Creep	(D)	Graphite
78.		sture content at which a specific	ed amount of	compaction will produce the maximum
	(A)	Hydroscopic moisture	(B)	Optimum moisture content
	(C)	Fully Saturated	(D)	Partially Saturated
79.	Rankine'	s formula for minimum depth of	foundation i	s:
	(A)	$h = \frac{p}{w} \left(\frac{1 - \sin \theta}{1 + \sin \theta} \right)^2$	(B)	$h = \frac{w}{p} \left(\frac{1 - \sin \theta}{1 + \sin \theta} \right)^2$
	(C)	$h = \frac{p}{w} \left(\frac{1 + \sin \theta}{1 - \sin \theta} \right)^2$	(D)	$h = \frac{p}{w} \left(\frac{1 - \sin \theta}{1 + \sin \theta} \right)$
80.	A portion against the	n of masonry built into the from	nt of the wa	ll to strengthen it for lateral stability
	(A)	Bressummer	(B)	Buttress
	(C)	Brick core	(D)	Blocking course
81.	Gateway	of India is located in which of th	e following ci	ities?
	(A)	Kolkata	(B)	Mumbai
	(C)	Delhi	(D)	Agra
82.	Which of	the following is an example of ri	ft valley in Ir	ndia?
	(A)	Tapti valley	(B)	Soan.valley
	(C)	Narmada valley	(D)	Kaveri valley
83.	Who raise	ed the slogan 'Garibi Hatao'?		
	(A)	Jawaharlal Nehru	(B)	Rajiv Gandhi
	(C)	Lal Bahadur Sastri	(D)	Indira Gandhi
84.	In which y	year NABARD was set up?		
	(A)	1980	(B)	1981
	(C)	1982	(D)	1983
210/	2015		12	A

00.	who was	the first President of All India Trade	Union	Congress founded in 1920?
	(A)	C. R. Das	(B)	Jawaharlal Nehru
	(C)	Motilal Nehru	(D)	Lala Lajpat Rai
86.	Who decla	ared 'Give me blood and I will give yo	ou freedo	om'?
	(A)	Subhash Chandra Bose	(B)	Lala Hardayal
	(C)	Bhagath Singh	(D)	Bala Gangadhara Tilak
87.	Kudi Ara	su is the magazine started by whom?		
	(A)	E V Ramaswamy Naicker	(B)	Veeresalingam
	(C)	Jyotiba Phule	(D)	Subramanya Bharati
88.	Kaladi, tl	ne birth place of Sankaracharya is l	ocated o	on the banks of which of the following
	(A)	Periyar	(B)	Bharatapuzha
	(C)	Pampa	(D)	Chaliyar
89.	Which of	the following is the biggest mountain	passes	in Kerala?
	(A)	Bodinaykannur	(B)	Kambam
	(C)	Perambadi	(D)	Palghat gap
90.	Name the	district in which Mullaperiyar Dam	located?	
	(A)	Pathanamthitta	(B)	Kottayam
	(C)	Idukki	(D)	Eranakulam
91.	Who was	the founder of Samatva Samajam?		
	(A)	Vagbhatananda	(B)	Chattampi Swamikal
	(C)	Ayyankali	(D)	Vaikunda Swamikal
92.	Name the	Araya community leader who wrote	'Jatikku	ımmi' against caste evils?
	(A)	Kumaranasan	(B)	K. P. Vallon
	(C)	Pandit K. P. Karuppan	(D)	Velukutty

93.	Which among the following is a major work of Sri Narayana Guru?			
	(A)	Daiva Dasakam	(B)	Duravastha
	(C)	Atmavidya Kahalam	(D)	Jeevithakarunya Nirupanam
94.	Who was	the founder and proprietor of Swade	shabhim	ani Newspaper?
	(A)	Kumara Guru	(B)	Ananda Theerthan
	(C)	Vakkom Abdul Khader Moulavi	(D)	Ramakrishna Pillai
95.	Who calle	d Ayyankali as 'Pulaya Raja'?		
	(A)	Tagore	(B)	Annie Besant
	(C)	EMS Nambootiripad	(D)	Mahatma Gandhi
96.	Who won	the Dada Saheb Phalke award for c	ontributi	on to cinema in 2015?
	(A)	Shashi Kapoor	(B)	Gulzar
	(C)	Rishi Kapoor	(D)	Sanjay Kapoor
97.	Who was	the chief guest in 2015 Republic Day	y Celebra	tions in India?
	(A)	Mahinda Rajapaksa	(B)	Barak Obama
	(C)	Vladimir Putin	(D)	Nawas Sherif
98.	Who was	the president of Cuba, recently mad	e a visit t	to Vatican after a long period of time?
	(A)	Fidel Castro	(B)	Ban Ki moon
	(C)	Raul Castro	(D)	Torrado
99.	What was	the motto of 2015 National Games	held in K	erala?
	(A)	Get Set Play	(B)	Be Ready Play
	(C)	Set Ready Play	(D)	Go Get Play
100.	2014 Worl	d Cup Football Tournament was he	ld in :	
	(A)	France	(B)	Argentina
	(C)	Brazil	(D)	Germany