## 143/2017

Question Booklet Alpha Code A

Question Booklet Serial Number

150601

Total No. of questions: 100

Time: 75 Minutes

Maximum: 100 Marks

## INSTRUCTIONS TO CANDIDATES

- The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
- The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
- The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the question booklet. This may be used for rough work.
- Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR answer sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

SEAL

## 143/2017

Maximum: 100 marks

Time: 1 hour and 15 minutes

1. The total number of votes polled to the ca	andidate, Gopalkrishna Gandhi in the
1. The total number of votes poned to	
Vice- Presidential election was:	(B) 516
	(D) 344
(C) 771	
2. Who was the Speaker of the Fourteenth Lok Sabh	a?
2. Who was the Speaker of the Pourse	(D)
(A) Meira Kumar	(D) Somanath Chatterjee
(C) G.M.C. Balayogi	
its maked first in the	recent survey conducted by the National
3. Which of the following city ranked first in the	
Institute of Urban Affairs?	(B) New Delhi
(A) Chennai	(D) Jaipur
(C) Cochi	
4. Who described Tagore as the World Poet for the	first time?
4. Who described Tagore as the World	(B) Brahma Bandav Upadhyay
(A) Subhash Chandra Bose	(D) Nehru
(C) Gandhiji	
5. The world's highest post office, Hikkim is situa	tes at a height of :
5. The world's highest post office, Thanks	(B) 14067 Feet
(A) 14765 Feet	(D) 14567 Feet
(C) 14657 Feet	
6. Who opened school for the Muslim women at (	Culcutta in 1911?
6. Who opened school for the Mushin women	(B) Tagore
(A) Lord Curzon	(D) Pandita Ramabai
(C) Begum Rokey Sakhawat Hossain	
A comply held its	first meeting in :
7. The Sree Moolam Popular Assembly held its	(B) 1904
(A) 1914	(D) 1908
(C) 1907	
3	[P.T.O.]
A	[1.1.0.]

3. The journal Turki Samachar was started by :  (A) Makhti Tangal  (C) P. Krishna Pillal  (D)	E. Moidu Moulavi Hamadani Tangal
9. Pratyaksha Raksha Daiva Sabha was founded by :  (A) Mannathu Padmanabhan  (D)	) Dr.Palpu
10. Government Sanskrit College at Thiruvananthapur  (A) Sree Moolam Tirunal Rama Varma  (B) Vishakam Tirunal Rama Varma  (C) Ayilyam Tirunal Rama Varma  (D) Swathi Tirunal Rama Varma	am was founded
11. The Synod of Diamper was held in:  (A) 1499  (C) 1509	(B) 1599 (D) 1589
12. Which of the following is a Tiger Reserves in Ker  (A) Peppara Wildlife Sanctuary  (C) Chinnar Wildlife Sanctuary	(D) Farameter
13. Teak plantation in Kerala was started at Nilar  (A) 1842  (C) 1902	(B) 1742 (D) 1782
14. The present Chairman of NITI Aayog is:  (A) Rajiv Kumar  (C) Arun Jaitley	(B) Arvind Panagariya (D) Prime Minister
15. The Kadalundi-Vallikkunnu Reserve is a :  (A) Vested Forest  (C) Reserved Forest	(B) Community Reserve Forest (D) Evergreen Forest A
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]	16. The only key to the solution of the world's p was a statement made by:	problen	ns o	and of India's problems to
	(A) Gandhiji			of zitale s problems ties in socialism
			(B)	M.N. Roy
	(C) Nehru		(D)	
1	17. India indeed the world "			
	17. India indeed, the world will not see the like Mahatma Gandhi by:	of hin	n a	gain was a famous remark made at
	(A) Clement Atlee			
	(C) Nehru	(	B)	Lord Mountbatten
		(	D)	Winston Churchill
18	8. Here lay the woman who was the			
	8. Here lay the woman who was the only man of Lakshmibhai of Jhansi by:	among	the	rebels was a remark made about Rani
	(A) Hugh Rose			
	(C) Outram		3)	Havelock
			0)	Nicholson
19	<ol> <li>My boy, no, you are an Indian first and then a</li> <li>(A) Gandhiji</li> </ol>			
	(A) Gandhiji			was the words of
	(C) M. A. Jinnah	(I		Tej Bahadur Sarup
		(I	))	Maulan Abdul kalam Azad
20.	). All Kerala Temple Entry Day was observed or			
	(A) September 21,1932			
	(C) October 2, 1932	(B		October 21, 1932
	2, 1002	(D	)	November 1, 1931
21.	. The letters are designated by their:			
	(A) breadth	(D)	,	
	(C) width	(B)		height
		(D)		hickness
22.	The earliest possible time for the activity to activities in the network is:	start	wi	thout change of
	(A) earliest start time		***	thout changing the sequence of the
	thest start time	(B)	е	arliest finish time
	(C) latest start time	(D)		atest finish time
23.	The moment of :-			
-0.	The moment of inertia is expressed in:			
	(A) mm <sup>2</sup>	(B)	n	nm³
	(C) mm	(D)		nm <sup>4</sup>
		(2)	11	im
24.	Stone generally referred for railway ballast is:			
	(A) marble	(B)	- 1	ate
	(C) basalt	(D)	-	
		(D)	sa	nd stone
A	5			,
				143/2017
				[P.T.O.]

25.	In detaile	ed estimate the area is wo	rked out to the	nea	rest of:
	(A)	$0.001\mathrm{m}^3$		(B)	0.005 m <sup>3</sup>
	(C)	0.01 m <sup>2</sup>		(D)	0.01 m <sup>3</sup>
26.	Th				
40.	(A)	ring on the exposed top of			
	(C)	cornice		(B)	coping
54	(C)	cornice		(D)	lacing
27.	The point	through which the buoya	int force is actin	ng is	called:
	(A)			(B)	centre of pressure
	(C)	centre of gravity		(D)	centroid
28.	The perio	d of water required by a c	rop during the	enti	re period of crop is in field is:
	(A)	duty		(B)	delta
	, (C)	base period		(D)	total period
				,	over period
29.	Turbidity	of water is due to:			
	(A)	dissolved solids	. (	B)	floating solids
	(C)	colloidal solids	(	D)	suspended solids
30.	Time cond	centration depends on :			
	(A)		(	B)	intensity of rainfall
	(C)	slope of catchment		D)	evaporation
31.	A flat slal	o is supported on :			
	(A)				
	(B)		milt with slah		
	(C)	column	Julie With Siab		
	(D)	beam and columns			
32.	The mine	e is slightly widened on :			
02.	(A)	tracks for fast train		D)	
	(C)			B)	points
	(0)	crossing	. (1	D)	curves
33.	The prima	ary object of providing can	nber is:		
	(A)	easy drainage	()	B)	easy over
	(C)	best appearance	()	D)	down traffic
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34.	The process of attracting interest and applications for a vacant position in organizational structure is:				
	(A)	selection	(B)	appointment	
	(C)	vacancy	(D)	recruitment	
35.	IS 10711-	1983 recommended un trimmed size of	A <sub>0</sub> sl	heet is:	
	(A)	841 × 1189	(B)	821 × 1159	
	(C)	811 × 574	(D)	841 × 594	
36.	In which	surveying the curvature of the earth is	accou	nted?	
	(A)	plane surveying	(B)	geodetic surveying	
	(C)	ariel surveying	(D)	engineering surveying	
37.	The ratio	of lateral strain to linear strain is:			
	(A)	bulk modulus	(B)	modulus of elasticity	
	(C)	modulus of rigidity	(D)	poissons ratio	
38.	White cen	nent should have least percentage of:			
	(A)	silica	(B)	iron oxide	
	(C)	aluminium oxide	(D)	magnesium oxide	
39.	The portion	on of brick obtained by cutting it in tran	nsvers	se direction is called:	
	(A)	beveled closer	(B)	king closer	
	(C)	queen closer	(D)	bat	
40.	Contracto	ors profit is generally taken as:			
	(A)	10%	(B)	20%	
	(C)	15%	(D)	5%	
41.	When the	fluid is at rest the shear stress is:			
	(A)	maximum	(B)	minimum	
	(C)	average	(D)	zero	
42.	The runo	ff from a catchment can be computed:			
	(A)	daily	(B)	monthly	
	(C)	yearly	(D)	all the above	

48	3. One of the	ne agent responsible for disinfec	tion is:	
	(A)	ozone		B) heat
	(C)	lime		D) oxygen
44	The ratio	of effective length of the colum		st radius of gyration of the cross section i
	(A) (C)	slenderness ratio length by breadth ratio		3) poisons ratio
45.	. The best	system of a railway-highway cr	ossing is .	
	(A)	level crossing road under rail track		road over rail track road and rail parallel
46.	An examp	le of rigid pavement is		
	(A)	earthen road concrete road	(B)	The state of the s
47.	Which of t	he following earth moving equip	nmont:	
	(A) (C)	bull dozer shavel	(B)	dragline
48.	Porosity is	determined by		
	(A)	total volume/volume of voids weight of soil/total weight	(B) (D)	volume of voids/total volume total weight of soil/volume of soil
49.	Pit out tube	e is used for the measurement of		
	(A) (C)	velocity at point	(B) (D)	discharge pressure
50.	A curve trac being tight	ced by the end of a thread while is called:	unwinding	from a cylinder or polygon , the thread
	(A) H	nvolute	(B) (D)	ellipse
51.	An example	of level surface is:		
	(A) s	urface of still lake arth surface	(B) (D)	sea surface reservoir surface
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52.	The approximate weight per m³ of steel is taken as:					
	(A)	1440 kg	(B)	2600 kg		
	(C)	7850 kg	(D)	2800 kg		
53.	The centr	e of gravity of hemi sphere is:				
	(A)	$4r/3\pi$ from base	(B)	h/3 from top		
	(C)	3r/8 from base	(D)	h/4 from bottom		
54.	When she	ar force at a point is zero, then the b	ending r	moment at that point is:		
	(A)	zero	(B)	maximum		
	(C)	infinity	(D)	minimum		
55.		er required for irrigation is suppli ut the crop period is called:	ed in a	ccordence with the crop requirement		
	(A)	perenial irrigation	(B)	flood irrigation		
	(C)	direct irrigation	(D)	canal irrigation		
56.	The best 1	pipe for water mains for long life is :				
	(A)	cement concrete	(B)	cast iron		
	(C)	steel	(D)	aluminium		
57.	The heati	ng of limestone to redness in contact	with air	is known as :		
	(A)	oxidation	(B)	drying		
	(C)	hydration	(D)	calcination		
58.	Strength	of cement concrete depends on:				
	(A)	quantity of aggregate	(B)	quality of cement		
	(C)	water cement ratio	(D)	quality of aggregate		
59.	Brass is a	n alloy of:				
	(A)	nickel and zinc	(B)	silver and tin		
	(C)	lead and zinc	(D)	copper and zinc		
60.	The main	reinforcement in RCC cantilever me	mbers is	placed at:		
	(A)	top fibre	(B)	side fibre		
	(C)	bottom fibre	(D)	top and side fibre		

61	. The m	aximum shear stress in a ste		
	(	A) 0.56 fy		
	(	C) 0.45 fy.		(B) 0.66 fy
		· · · · ·		(D) 0.6 fy
62.	The bo	nd which consist of alternate		ders and stretchers is known as:
	(/	A) English bond	courses of head	ders and stretchers is known as:
		Duch bond	(	B) Racking bond
				D) Flemish bond
63.	An arra	angement for supporting an tled is known as:	unsafe structu	are temporarily till it is rendered safe or
	(A	) scaffolding		
	(C	) centring		
			(1	D) racking
64.		ands for :		
	(A)	on on gen demand	(B	B) bio chamical
	(C)	biological oxygen demand	(D	one micar oxygen demand
65.	m. ·			, blotte oxygen demand
00.	ine prin	ary function of ballast in rail	lway is to:	
	(A)	maintain guage	(B)	) prevent growth of vegetation
	(C)	irregularities in sleepers	(D)	provide elasticity
66.	The signs	NAL-A		· · · · · · · · · · · · · · · · · · ·
	(A)	al that regulate the speed in r	ailway is:	
	(C)	outer signal	(B)	starter signal
	(0)	home signal	(D)	
67.	The minir	num size of silt particles is :		
	(A)	0.06 mm		
	(C)	0.002 mm	(B)	0.05 mm
		min	(D)	0.008 mm
68. T	he aggres	gate is heat in hituman		
	(A)	gate is heat in bitumen road of easy workability	construction of	premix method is for:
		easy spreading	(B)	get homogenous mix
		- Transition	(D)	minimize quantity of bitumen
9. T	he effectiv	ve size of soil is :		
		D <sub>60</sub>	(P)	
		D <sub>90</sub>	(B)	$D_{30}$
			(D)	D <sub>10</sub>

	(A)	tender	(B)	quotation
	(C)	contract	(D)	agreement
71.	The beari	ng of a line OP is 25° and beari	ng of line OQ	is 124° then the angle POQ is
	(A)	56°	(B)	99°
		149°	(D)	81°
72.	The techn	ique of finding the fair price of	an existing p	roperty is known as:
	(A)	estimation	(B)	pricing
	(C)	valuation	(D)	costing
73.	The quan	tity of cement required for plas	tering with ce	ement mortar 1:6 is :
	(A)	288 kg	(B)	72 kg
	(C)	360 kg	(D)	240 kg
74.	A simply	supported beam carrying a uni	formly distrib	uted load, the bending moment is
	(A)	wl <sup>2</sup> /8	(B)	wl/2
	(C)	wl	(D)	wl <sup>2</sup> /4
75.	The point	where the shear force changes	the sign is ca	lled:
	(A)	bending moment	(B)	point of contra flexure
	(C)	point of cuncurrency	(D)	the point of maximum shear
76.	The amou	ant of water can be supplied fro	m the reservo	ir in a specified interval of time is:
	(A)	yield	(B)	primary yield
	(C)	secondary yield	(D)	average yield
77.	Air valve	s are provided in pipe lines at :		
	(A)	saddles	(B)	1 km intervals
	(C)	dead ends	(D)	summits
78.	The samp	le of cement is said to be sound	when it is no	ot contain:
	(A)	free lime	(B)	alumina
	(C)	iron oxide	(D)	silica

79.	The perm exceed:	issible stress in axial tension	n on the net effe	ctive area of the steel section shall	not
	(A)	0.66 fy	(B)	0.45 fy	*
	(C)	0.65 fy	(D)	0.6 fy	
80.	A roof wh	ich slopes in all the four dire	ection is:		
	(A)	gabled roof	(B)	hip roof	
	(C)	dual roof	(D)	close coupled roof	
81.		which the shutter is formed d grooved joint and fixed tog		ertical wooden boards side by side w	vith
	(A)	paneled door	(B)	battened and ledged door	
	(C)	flush door	(D)	sash door	
82.	A unit wo	rking purely on the action of	f anaerobic bacte	ria is :	
	(A)	trickling filter	(B)	sludge tank	
- '	(C)	contact beds	(D)	septic tank	
83.	The prima	ary function of sleeper is to:			
	(A)	take load from rails	(B)	stability to the track	
	(C)	maintain guage	(D)	given cushioning action	
84.	Which of	the soil is a cohesionless soil	?		
	(A)	sand	(B)	silt	
	(C)	clay	(D)	shale	
85.	The magn	netic bearing of a line AB is N	N 88°30′ E. Its tr	ue bearing is S 88°30′ E the declina	tion
	(A)	zero degree	(B)	3* W	
	(C)	3° E	(D)	91'30'	
86.				l vertical is 0.4 m. The tacheometer m instrument station to fixed point	
	(A)	40 m	(B)	4 m	
	(C)	4.5 m	(D)	zero	
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	a dress induced ill the black
When a solid shaft is subjected to torsion	n, the shear stress induced in the shaft at its
center is:	
(A) minimum	(B) zero
	(D) two times
(C) maximum	the what is moment of
specific applied perpendicular to the	he edge of a door of 0.9 m wide, what is moment of
the force about the hinch?	
	(B) 19.1 N-m
(A) 18 N-m	(D) 0.45 N-m
(C) 22.2 N-m	rad shain was
anith a 30	m chain was found to be 240 m. If the chain was is:
39. The length of a line measured with a 15	is:
4 cm too short. The true length of	(B) 243.2 m
(A) 240.32 m	(D) 236.8 m
(C) 239.68 m	
	rrying a uniformly distributed load of 8 KN over the
90. A simply supported beam 2 m long is car	erying a unito-
90. A simply supported beam 2 in continuous entire span. The maximum bending mom	(B) 4 KN-m
(Λ) 8 KN-m	(D) 16 KN-m
(C) 64 KN-m	
	and the
	the level was set up near A and the
In leveling between A & B on opposite	sides of a river, the level was set up near A and the
91. In leveling between A & B on opposite staff reading are 1.575 m and 2.945 m.	sides of a river, the level was set up near A and the The level was then move near to B, the staff reading
91. In leveling between A & B on opposite staff reading are 1.575 m and 2.945 m. on A & B are 1.900 m and 3.275 m. The	true difference between A & D is .
on A & B are 1.900 m and 3.275 m. The	true difference between A &B is .  (B) 2.260 m
on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m	true difference between A &B is .  (B) 2.260 m  (D) 0.328 m
on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m	true difference between A &B is .  (B) 2.260 m  (D) 0.328 m
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m	(B) 2.260 m (D) 0.328 m  (D) 0.328 m
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m	(B) 2.260 m (D) 0.328 m  It into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m  92. A steel wire of 4mm diameter is ben modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> . The modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> .	(B) 2.260 m (D) 0.328 m  Int into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:  (B) 80 N/mm²
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m  92. A steel wire of 4mm diameter is ben modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> . The m  (A) 40 N/mm <sup>2</sup>	(B) 2.260 m (D) 0.328 m  Int into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:  (B) 80 N/mm²
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m  92. A steel wire of 4mm diameter is ben modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> . The modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> .	(B) 2.260 m (D) 0.328 m  It into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m  92. A steel wire of 4mm diameter is ben modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> . The m  (A) 40 N/mm <sup>2</sup> (C) 100 N/mm <sup>2</sup>	(B) 2.260 m (D) 0.328 m  It into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:  (B) 80 N/mm² (D) 150 N/mm²
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m  92. A steel wire of 4mm diameter is ben modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> . The m  (A) 40 N/mm <sup>2</sup> (C) 100 N/mm <sup>2</sup>	(B) 2.260 m (D) 0.328 m  Int into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:  (B) 80 N/mm² (D) 150 N/mm²
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m  92. A steel wire of 4mm diameter is ben modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> . The m  (A) 40 N/mm <sup>2</sup>	(B) 2.260 m (D) 0.328 m  It into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:  (B) 80 N/mm² (D) 150 N/mm²  or reduce a plan in surveying? (B) planimeter
staff reading are 1.375 m and 3.275 m. The on A & B are 1.900 m and 3.275 m. The  (A) 1.373 m  (C) 2.587m  92. A steel wire of 4mm diameter is ben modulus E as 200 × 10 <sup>3</sup> N/mm <sup>2</sup> . The m  (A) 40 N/mm <sup>2</sup> (C) 100 N/mm <sup>2</sup> 93. Which instrument is used to enlarge of the contraction (A) pentagraph	(B) 2.260 m (D) 0.328 m  Int into a circular shape of 4 m radius. Take youngs maximum stress induced in the wire is:  (B) 80 N/mm² (D) 150 N/mm²  or reduce a plan in surveying? (B) planimeter (D) hydrograph
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94.	The combin	ned correction for a distances of 1 l	km is:	
	(A)	0.0112 m	(B)	0.0785 m
	(C)	0.0673 m	(D)	0.0735 m
95.		ular section 60 mm breadth and The maximum bending stress is:	l 100 mm	depth is subjected to a moment of
	(A)	200 N/mm <sup>2</sup>	(B)	150 N/mm <sup>2</sup>
	(C)	250 N/mm <sup>2</sup>	(D)	100 N/mm <sup>2</sup>
96.	The major	overturning force in the case of gr	avity dam	is:
	(A)	silt pressure	(B)	water pressure
	(C)	wind pressure	(D)	dam weight
97.	The life of	a tree can be estimated on the bas	sis of:	
	(A)	height of tree	(B)	diameter of tree
	(C)	number of annual rings	(D)	colour of bark
98.	In the lim	it state design method, the over re	inforced s	ections are:
	(A)	not permitted	(B)	permitted
	(C)	permitted only extreme case	(D)	permitted only the initial stage
99.	A stair in	which all the steps are winders is		
	(A)	bifurcate	(B)	helical
	(C)	spiral	(D)	circular
100	. The dept	h of flow at which specific energy is	s minimun	n is called:
	(A)	normal depth	(B)	critical depth
	(C)	over all depth	(D)	average depth