## DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

## TEST BOOKLET SERIES

## TEST BOOKLET LECT (COMP. ENGG.) T.E.-2016



[Maximum Marks: 100

	All questions carry equal marks.	
7	INSTRUCTIONS	
1.	Immediately after the commencement of the examination, you should check that	t test booklet
	does not have any unprinted or torn or missing pages or items, etc. If so, get	t it replaced
	by a complete test booklet.	
2.	Encode clearly the test booklet series A, B, C or D as the case may	y be in the
	appropriate place in the answer-sheet.	
3.	Write your Roll Number only in the box provided alongside.	

Time Allowed: 2 Hours]

- Do not write anything else on the Test Booklet.

  4. This Test Booklet contains 100 items (questions). Each item comprises four responses (answers). Choose only one response for each item which you consider the best.
- 5. After the candidate has read each item in the Test Booklet and decided which of the given responses is correct or the best, he has to mark the circle containing the letter of the selected response by blackening it completely with Black or Blue ball pen. In the following example, response "C" is so marked:
  - (A) (B) (D)
- 6. Do the encoding carefully as given in the illustrations. While encoding your particulars or marking the answers on answer sheet, you should blacken the circle corresponding to the choice in full and no part of the circle should be left unfilled. After the response has been marked in the ANSWER SHEET, no erasing/fluid is allowed.
- 7. You have to mark all your responses ONLY on the ANSWER SHEET separately given according to 'INSTRUCTIONS FOR CANDIDATES' already supplied to you. Responses marked on the Test Booklet or in any paper other than the answer sheet shall not be examined.
- 8. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet. There will be no negative marking.
- 9. Before you proceed to mark responses in the Answer Sheet fill in the particulars in the front portion of the Answer Sheet as per the instructions sent to you.
- 10. If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct.
- 11. After you have completed the test, hand over the Answer Sheet only to the Invigilator.

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Time Allowed: 2 Hours] [Maximum Marks: 100 Which of the following is not a measure of software quality? 1. Correctness Maintainability (A) (C) Accessibility (D) Integrity Cyclomatic complexity is given by V(G) =2. (A) E - N + 2(B) E - N(C) E + N - 2E + N3. Software testing is done to: (B) Show absence of defect (A) Correct an error Find an error (D) None of these (C) Alpha and Beta Testing are forms of: (A) Acceptance testing Integration testing **(B)** (C) System testing (D) Unit testing

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5.	As the reliability increases, failure intensity:	
		10 ,20
	(A) decreases (B) increases	
	(C) no effect (D) none of these	
	(b) no effect	
6.	If the number of conditions in a decision table is $n$ , the maximum r	umber
	C 1 1 1 1 1	
	of rules possible is:	
		0.00
	(A) $n$ (B) $2n$	
: ::::::::::::::::::::::::::::::::::::		
	(C) $2^n$ (D) None of these	8
7.	Software engineering primarily aims on developing:	
85 W	(A) Reliable software	
	(B) Cost effective software	*
	(C) Reliable and cost effective software	82
	(D) None of the above	
		ğ a
- "		
8.	Which of the following is a type of testing?	*
*		· ne
2.69	(A) Recovery Testing (B) Security Testing	
85 gr		
	(C) Stress Testing (D) All of these	
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9.	Data structure suitable for the application is discussed in:						
73		27	25	(9)	T = 2	(A)	
	(A)	data design		(B)	architectural design	2 <sup>35</sup> 0	
		9 8		2	8 * W	***	
r	(C)	procedural design		(D)	interface design	** #* #*	
		**					
10.	The	probability of success o	f two mo	dule	s in unit testing is 0.9	each. The	
12)	prob	pability of success of inte	egration (	testir	ng is 0.9. The joint pro	bability of	
		V 22	E				
	succ	ess is:	iii e				
A						20	
	(4)	0.9	<u>6</u>	(D)	0.01	6 85	
	(A)	0.9		(B)	0.81		
			# n B		8.9		
	<b>(C)</b>	0.729		(D)	0.1	96.00	
		0 0 0 0			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 E	
		W"	3.				
11.	Mec	hanism to protect privat	e networ	ks fr	om outside attack is:	* * * * * * * * * * * * * * * * * * *	
2877							
F. F.	(A)	77'	320	<b>(T)</b>	75. 1. 1. 1.		
	(A)	Firewall		(B)	Digital signature	*	
	22					A 150	
	(C)	Formatting	**	(D)	None of these	40 M	
220		n 2 n 2 n 2	T.				
v	*	* 10 g		2	, =	8 0 ,	
12.	Whi	ch of the following is th	e fastest	med	lia of data transfer?	32	
				11		8 ×	
				8			
	(A)	Co-axial Cable	\$1) 12420	(B)	Untwisted Wire		
	80				T		
	(C)	Telephone Lines		(D)	Fibre Optic		
			i ii		Tioro Opiio		
LECT	. (C.E	.) T.E2016—A	4	•			

13.	The	internet is:				
	¥.	n				20 E
i d	(A)	Network of networks	1	(B)	Website	
88	E 10	3 6	10 10 10 10 10 10 10 10 10 10 10 10 10 1			
	(C)	Host	a x	(D)	Server	
	E -	a s				<i>tt</i>
11	C4-	4 J C4 1:4	. 1	• 1		
14.	Star	t and Stop bits are u	ised in ser	nal co	mmunication for:	NW.
W	100	2 2 2				
9	$(\mathbf{A})^{T}$	error detection	,, ¥	(B)	error correction	12
<u>.</u>	*	a) *		~		₽ Q
	(C)	synchronization		(D)	none of these	
ä		# A				
	**			8		
15.	The	method of communic	ation in v	vhich	transmission takes	place in both
	1.					
417	dire	ctions, but only in on	e direction	ata	time is called:	N N
			- W			
	(A)	Simplex	•	(B)	Half duplex	18 E
		· · ·	gh 10		*	
	(C)	Full duplex		(D)	None of these	2 F
		<b>-</b> °			an observe on the second second second of	
*		2 2	- 4			
16.	Unn	nodulated signal comi	ng from a	trans	smitter is known as	:
			n A			
6	(A)	carrier signal		(B)	baseband signal	
*	<b>(C</b> )	nrimary signal	7	(D)	none of these	
	(C)	primary signal	2	(D)	none of these	

<b>17</b> .	The Hamming distar	ce between	001111 a	and 010011 i	s:		
8				TE		20	
	(A) 1		(B)	2			
				a #			
	(0) 9	v	<b>(D)</b>	4			
	(C) 3		(D)	4			10
				N N N			
18.	The number of cross	points needed	l for 10 l	ines in a cros	s point swit	ch which	1
				n n n	5 9 84.0		
	is full duplex in nat	ure and ther	e are no	self connect	ion is:		
			- 47	, î	95		
	(A) 100		(B)	45			
		E = =				525 52	
	(0) 50		(D)	90		-2	
	(C) 50		(D)	90			
er e							
19.	Maximum data rate	of a channel	for a no	oiseless 3 kH	z binary cha	nnel is	•
			*		**	11	
	(A) 3000 bps		(B)	6000 bps	20 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	8	
				The state of the s			
	(O) 1500 have		(D)	of the		N N N	
	(C) 1500 bps		(D)	none of the	SE		
188							
20.	End-to-end connectiv	ity is provide	ed from	host to host	in:	27	
			Land Comment				N <sub>E</sub> S
	(A) network layer		(B)	transport la	ver		
8 8	(11) HOUWOIR Rayor		(2)	oranopore ra			
				2 /2	a see II		
	(C) session layer	•	(D)	none of the	se .		
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21.	Page fault occurs when:			
	(A) page is corrupted	(B)	page is in main memory	
	(C) page is not in main memory	(D)	none of these	
22.	An operating system contains 3 use	er pro	ocesses each requiring 2 units of	
	resource R. The minimum number	of u	nits of R such that no deadlock	
	will ever occur is:			
	(A) 3	(B)	4	
	(C) 5	(D)	6	
23.	At a particular time of computation	, the	e value of a counting semaphore	
	is 7. Then 20 P operations and 'X'	V or	perations were completed on this	
	semaphore. If the final value of the	sema	aphore is 5, X will be:	
	(A) 15	(B)	22	
	(C) 18	(D)	13	
24.	Which of the following scheduling	g al	gorithm suffers from Belady's	
,	anomaly?			
× ·	(A) LFU	(B)	LRU	
	(C) FIFO	(D)	None of these	
<b>25</b> .	Which of the following scheduling p	olicy	is well suited for a time shared	
	operating system ?			
	(A) SJF	(B)	Round Robin	
e)	(C) FCFS	(D)	None of these	
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	·		꾸	

26.	Dirty bit is used to show the:
· ·	(A) page with corrupted data
	(B) wrong page in the memory
	(C) page that is modified after being loaded into cache memory
	(D) less frequently accessed page
27.	A program in execution is called:
	(A) Process (B) Instruction
	(C) Procedure (D) Function
28.	A scheduler which selects processes from secondary storage device is
	called:
	(A) Short-term scheduler (B) Long-term scheduler
10 10	(C) Medium-term scheduler (D) Process scheduler
29.	Which of the following loaders is executed when a system is first turned on
55. 38 - 83	or restarted?
Ti.	(A) Boot loader (B) Compile and Go loader
	(C) Bootstrap loader (D) Relating loader
30.	Interval between the time of submission and completion of the job is
•	called:
· · · · · · · · · · · · · · · · · · ·	(A) Waiting Time (B) Turnaround Time
	(C) Response Time (D) Throughput
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31.	The	quick sort algorithm e	xploit		design techniq	ue.
	(A)	Greedy	(B	) <sub>[</sub> I	Dynamic programmin	g
**************************************	(C)	Divide and Conquer	Œ	) I	Backtracking	
32.	The	data structure requir	ed <b>to eval</b> uat	e a	postfix expression is	
*	(A)	queue	(B	) s	stack	
200 g	(C)	array	E Œ	) I	inked-list	
33.	Whi	ch of the following trav	ersal techniqu	ies	lists the nodes of a bi	nary search
Į.	tree	in ascending order?		<b>K</b> S		e est
*	(A)	Post-order	(E	3) ]	In-order	P on n
24 AS	(C)	Pre-order	Œ	)) ]	None of these	
34.	Wha	at is the post-fix form	of the follow	ing	prefix * + ab - cd '	
1X 150 - 150	(A)	ab + cd - *	Œ	3) (	$ab \ cd + - *$	
	(C)	ab + cd * -	(I	)) (	ab + - cd *	3
35.	The	order of binary searc	h algorithm	s:		
er er	(A)	$\boldsymbol{n}$	(E	3) , 1	$n^2$	5 8
= v	(C)	$n \log(n)$	(I	)) ]	$\log(n)$	
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	**	
37.	The order of algorithm that finds w	whether a given Boolean function of 'n'
	variables produces a 1 is:	
	(A) Constant	(B) Linear
13 H	(C) Logarithmic	(D) Exponential
38.	The minimum number of edges in	a connected cyclic graph on $n$ vertices
	is:	
	(A) $n-1$	(B) n
94	(C) $n + 1$	(D) None of these
39.	Assume 5 buffer pages are available	to sort a file of 105 pages. The cost of
80 S	sorting using m-way merge sort is:	
	(A) 206	(B) 618
	(C) 840	(D) 926
40.	If the sequence of operations push(1),	push(2), pop, push(1), push(2), pop, pop,
	pop, push(2), pop are performed on	a stack the sequence of popped out
	values are:	
is is	(A) 2, 2, 1, 1, 2	(B) 2, 2, 1, 2, 2
ě	(C) 2, 1, 2, 2, 1	(D) 2, 1, 2, 2, 2
IFOT	(C F ) T F 901C A	29

The number of possible binary trees with 3 nodes is:

(B) 13

(D) 15

36.

(A) 12

(C) 5

41.	Whi	ch of the normal form	is conside	red adequate	for relation	database
	desi	gn ?				
	(A)	2NF	<b>(</b> E	3) 3NF		
**	(C).	4NF	(I	D) BCNF		
42.	The	column of a table is re	ferred to a	s the:		
	(A)	tuple	(E	3) attribute		
	(C)	entity	I)	O) degree	* B	
43.	An e	entity set that does not h	nave sufficie	ent attributes	to form a pri	mary key
報	is a	:				E (89)
	(A)	strong entity set	(E	B) weak ent	ty set	y <sup>2</sup> =
	(C)	simple entity set	(I	D) primary 6	entity set	
44.	A su	ibschema expresses :				
	(A)	the logical view	(E	3) the physi	cal view	8.
	(C)	the external view	(I	all of the	se	
<b>4</b> 5.	The	employee salary should	not be gre	eater than R	s. 5,000. This	is:
	(A)	Integrity constraint	(E	B) Referentia	al constraint	
	(C)	Over-defined constraint	(I	) Feasible (	constraint	e
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46.	Students and courses enrolled, is	an example of:
	(A) one to one relationship	(B) one to many relationship
	(C) many to one relationship	(D) many to many relationship
47.	Consider the relation:	
	Employee(Emp_no, Emp_name, Sa	alary, Project_no, Due_date)
	(Assuming an 1-1 relationship be	tween project and employees)
	Project_no is functionally depende	ent on :
	(A) Emp_name	(B) Emp_no
9	(C) Due_date	(D) None of these
48.	Count function in SQL returns t	he number of:
# 10.	(A) values	(B) distinct values
	(C) groups	(D) columns
49.	The statement in SQL which allo	ows to change the definition of a table is
	(A) Alter	(B) Create
	(C) Select	(D) Update
50.	What is a relationship called wh	en it is maintained between two entities
	(A) Unary	(B) Binary
	(C) Ternary	(D) None of these
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51.
     The following program:
     Main()
        int i = 2;
         int i = 4, j = 5;
         printf("%d%d", i, j);
         Printf("%d%d", i, j);
          will not compile successfully
                                         (B) prints 4525
                                          (D) none of these
     (C)
          prints 2525
     The use of macro in the place of functions:
52.
          reduces execution time
                                         (B) reduces code size
     (C) increases execution time
                                          (D) none of these
    Consider the declaration in C:
     int a = 5, *b = &a;
     the statement
     printf("%d", a * b);
     prints:
     (A) 25
                                          (B) garbage
     (C) 5 x address of b
                                          (D) an error message
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<b>54</b> .	The following program fragment:	72	6 80		
	int a;			e a	å
	if(a = 7)		a a		
	Printf("a is seven");	D	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 12 Na	
59	else	#	2 2		
ŭ	printf("a is not seven");				*
ž.	results in the printing of:	S <del>a</del>			
	(A) a is seven	(B)	a is not seven		107
	(C) garbage	(D)	none of these		19
55.	Which of the following is procedura	l lan	guage?	8 p 3	
2	(A) Pascal	(B)	smalltalk	40	ton 0
	(C) C++	(D)	None of these		
56.	The minimum number of temporary of two variables is:	varia	ables needed to	swap the	contents
	(A) 1	(B)	2	8	
	(C) 3	(D)	0	े । श अ	22 B
57.	In C++ the statement :	129		13.05 13.05	er er
	int a = 5;	8	n d		
	cout<<"FIRST"<<(a<<2)<<"SECOND	";		95	
*	outputs:	8			
	(A) FIRST52SECOND	(B)	FIRST20SECC	ND	- 3
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58.	In (	C++ "Reusability" is a desira	ble featu	re of a language as it:
	(A)	decreases the testing time	(B)	reduces the compilation time
	(C)	reduces the execution time	(D)	none of these
59.	Cho	ose the correct statement re	garding i	nline functions used in C++:
2 a	(A)	It speeds up execution	(B)	It slows down execution
28 28	(C)	It decreases the code size	(D)	None of these
60.	In (	C++ constructor is called wh	enever :	*
	(A)	an object is declared	(B)	an object is used
	(C)	a class is declared	(D)	a class is used
61.	Whi	ch of the following is not a	primitive	data type in java ?
	(A)	boolean	(B)	byte
	(C)	string	(D)	double
62.	The	statement in Java:		
	byte	var = ~9;		
	Syst	em.out.println(var);		
	(A)	prints-9	(B)	prints-10
	(C)	prints-119	(D)	prints-118
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63.	In Java constants that cannot	be changed are declared using a keyword:
	(A) final	(B) static
	(C) abstract	(D) immutable
64.	In Java which of the following	methods is used to get the error message for
	exception that was thrown?	
¥	(A) printMessage	(B) extractMessage
	(C) throwMessage	(D) getMessage
65.	In Java subclass is also called	d:
	(A) base class.	(B) derived class
	(C) superclass	(D) none of these
66.	A top down parser generates	
85	(A) left-most derivation	
	(B) right-most derivation	
	(C) right-most derivation in	n reverse
	(D) none of the above	
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67.	The	grammar $E \rightarrow E + E$	E * E   a, is :		
	(A)	ambiguous	<b>(B)</b>	unambiguous	
£ 34	(C)	not depends on given	sentence (D)	none of these	
68.	In a	compiler, grouping of	characters int	o token is done by t	the :
	( <b>A</b> )	scanner	<b>(B)</b>	parser	
	(C)	code generator	(D)	code optimizer	
69.	A ba	asic block can be anal	yzed by a:		
81 41	(Á)	DAG	(B)	graph involves cycl	e
	(C)	flow graph	<b>(D)</b>	none of these	
70.	FSM	can recognize:			
## ## ## ## ## ## ## ## ## ## ## ## ##	(A)	any grammar	(B)	only CFG	
00 E	( <b>C</b> )	only unambiguous	<b>(D)</b>	only regular gramn	nar
71.	The	recognizing capability	of NDFSN and	d DFSM:	
	(A)	may be different	(B)	must be different	× .
	(C)	must be the same	(D)	none of these	" # # # # # # # # # # # # # # # # # # #
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72.	CFG is not closed under:			
	(A) union	(B)	Kleene star	
*	(C) complementation	(D)	product	
73.	Which of the following codes need	eds 7 bits	to represent a	character ?
	(A) ASCII	(B)	BCD	
	(C) EBCDIC	(D)	GRAY	
74.	The minimum time delay betwee	n the init	iation of two inde	ependent memory
<b>1</b>	operations is called:			
	(A) access time	(B)	cycle time	
	(C) transfer time	(D)	latency time	
75.	Tera is 2 to the power of:			
	(A) 32	(B)	30	
	(C) 40	(D)	25	
76.	Von Neuman architecture is :			
,	(A) SISD	(B)	SIMD	and the
	(C) MIMD	(D)	MISD	
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77.	Refresh rate below which a pictu	ire flicke	rs is:
			w = _ <sub>a</sub>
	(A) 25	(B)	30
	and the second second		A
	(C) 35	(D)	60
	(6)	(D)	
78.	Pixel phasing is a technique for	:	
* ***			
	(A) shading	(B)	anti-aliasing
	(C) hidden line removal	(D)	none of these
		,	
70	Wilson Alexander in water 11		
<b>79</b> .	when the computer is not able	to maint	ain operation and display, bright
	spot occur in the screen. This is	called a	e ·
	spot occur in the sercen. This is	caned a	<b>.</b>
	(A) dropping out	(B)	snowing
-			
	(C) flickering	(D)	blanking
80.	All the following hidden surface	algorith	m employ image space approach,
Z	except:	4	a 1992 B
	20 Exercise 20 Exe		
	(A) back face removal	(B)	depth buffer method
	(11) Such luce lentoval	1	deput surer mested
* * * * * * * * * * * * * * * * * * *		/#~\\	
po.	(C) scan line method	(D)	depth sort method
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81.	Between 2001 and 2011 what has been	en the approximate increase in literacy	7
9	rate in H.P. (in percentage terms):		
	(A) 5.83	(B) 7.30	
S.•	(C) 8.47	(D) 9.05	
82.	In which district of H.P. is Dera Jo	ogi Panga ?	**
	(A) Una	(B) Hamirpur	
	(C) Bilaspur	(D) Kangra	
83.	When did the Rana of Keonthal re-	ceive the title of raja ?	
00.	(A) 1857 A.D.	(B) 1887 A.D.	# # # # # # # # # # # # # # # # # # #
•	(C) 1907 A.D.	(D) 1917 A.D.	
84.	Which raja of Kangra refused to ma	arry his sister to the son of Dhian Sing.	h,
	the Prime Minister of Maharaja R	anjit Singh ?	
	(A) Ranbir Chand	(B) Jai Chand	
	(C) Pratap Chand	(D) Anirudh Chand	
85.	In which district of H.P. is Chand	ertal lake ?	
	(A) Kullu	(B) Kinnaur	
	(C) Shimla	(D) Lahul-Spiti	10 65
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86.	Wh	en is Pulech, t	he festival	of flower	rs,	celebrated (according to	Vikram
	· ·	mvat) ?					
	(A)	Jyeshtha—Asa	adh	(1	B)	Asadh—Shrawan	+-1
	(C)	Shrawan—Bha	adon	(I	<b>O</b> )	Bhadon—Asauj	
87.			Kinnaur D	istrict o	f I	H.P. is the HPMC upgra	ading its
	pac	king house?				e o a a Simo'	
	(A)	Kalpa	W	, (E	3)	Reckong Peo	
= 8	(C)	Nichar		Œ	))	Bangtu	
88.	In v	what ratio is the	cost of Mid	- Himala	yar	n Watershed Developmen	t Project
						nd the H.P. State Govern	
	(A)	70:30		(B	3)	80 : 20	
	(C)	85 : 15	Ju.	(D	))	90 : 10	
89.	In v	which river basin	n is Khauli	Hydel I	Pro	ject ?	
	(A)	Satluj		(B	)	Beas	15 <b>16</b>
e i	(C)	Ravi		( <b>D</b> )	)	Chenab	
90.	Upto	which class the	students of	governn	nen	nt schools in H.P. are allow	wed free
		el in the HRTC					19
	(A)	Class V		(B)	) (	Class VIII	
	(C)	Class X	S. Carlotte	(D)	) ) (	Class 10+2	en n <sub>e</sub>
LECT.	(C.E.	) T.E2016—A		21			P.T.O.

91.	What is the title of autobiog	graphy of famous Indian classical danc	er
	Mrinalini Sarabhai ?		
	(A) Voice From the Heart	(B) Art and Sound	
F0	(C) Ringing Bells	(D) Heart Beats	3
92.	With which region is Jallikatt	u, the bull taming sport associated?	
e n	(A) Punjab	(B) Tamil Nadu	
	(C) Odisha	(D) Haryana	
93.	Which one of the following citi	ies is being developed as smart city with	the
**	help of France?		
W &	(A) Nagpur	(B) Mumbai	a <sup>27</sup>
	(C) Patna	(D) Lucknow	n J
94.	Who is the author of India:	The Crucial Years ?	
	(A) A.S. Daulat	(B) Jairam Ramesh	
	(C) T.V. Rajeswar	(D) M.L. Fotedar	
95.	Who founded the farmers' or	eganisation Shetkari Sanghatana?	
	(A) Sharad Yadav	(B) Sharad Joshi	
	(C) Sharad Pawar	(D) Baba Maya Ram	
LEC	CT. (C.E.) T.E2016—A	22	

96.	To	which country does Ari	adna Gut	tierre	z who was wrongly declared	l Miss
	Uni	verse 2015 belong?				
	(A)	Brazil		(B)	Colombia	
	(C)	Philippines		(D)	Spain	
97.	Ide	ntify the Indian origin	n cancer	expe	rt who was knighted by	Queen
	Eliz	abeth in the new year	honours	list r	released in December, 2015	?
	(A)	Hardev Singh		(B)	Hardyal Singh	
	(C)	Daljit Singh		(D)	Harpal Singh Kumar	
98.	Who	o is Donald Trump?			· · · · · · · · · · · · · · · · · · ·	
8 -	(A)	a British writer		(B)	a US Presidential hopeful	
	(C)	a French economist		(D)	a German football player	
99.	Who	are called Umbrella s	soldiers ?		a a a a a a a a a a a a a a a a a a a	<b>%</b>
	(A)	Islamic state terrorist	s			
	(B)	US commandos	-187			
	(C)	Supporters of Hong K	ong's Der	nocra	cy Movement	- III
	(D)	Pakistani armymen in	Pakistar	o Occ	upied Kashmir	
100.	Wha	at is the capital of Mal	i ?			
	(A)	Bamako		(B)	Male	#250 #250 #250 #250
	(C)	Valletta		(D)	Port Louis	200 OF
LECT	. (C.E	.) T.E2016—A	23		· . I	P.T.O.