DO	NOT	OPEN	THIS	TEST	BOOKLET	UNTIL	YOU	ARE	ASKED	70	DO	SO
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Booklet Serial No. :

0319

## TEST BOOKLET AE (IT) MPPP

Time Allowed : 2 Hours		Maximum Marks: 100
	All questions carry equal marks.	

#### INSTRUCTIONS

 Immediately after the commencement of the examination, you should check that test booklet does not have any unprinted or torn or missing pages or items, etc. If so, get it replaced by a complete test booklet.

2. There are three parts of Question Paper and the candidate holding degree either in Information & Technology and Computer Science Engineering may opt Part-A (Question Nos. 1 to 80) and the candidate holding degree Electronics & Communication Engineering may opt Part-B (Question Nos. 1 to 80). Whereas Part-C comprising question Nos. 81 to 100 are compulsory and common for all the candidates. Therefore, the candidate may opt either Part-A or Part-B of the Question Paper and encode the relevant part (opted) in place of 'BOOKLET SERIES' in the answer-sheet.

3. Write your Roll Number only in the box provided alongside.

Do not write unything else on the Test Booklet.

 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.

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.

 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.

Before you proceed to mark responses in the Answer Shoot, fill in the particulars in the front purtion of the Answer Sheet as per the instructions sent to you.

10. After you have completed the test, hand over the Answer Sheet only, to the Invigilator.

#### Important Note :-

There are three parts of Question Paper and the candidate holding degree either in Information & Technology and Computer Science Engineering may opt Part-A (Question Nos. 1 to 80) and the candidate holding degree Electronics & Communication Engineering may opt Part-B (Question Nos. 1 to 80), whereas Part-C comprising question Nos. 81 to 100 are compulsory and common for all the candidates. Therefore, the candidate may opt either Part-A or Part-B of the Question Paper and encode the relevant part (opted) in place of 'BOOKLET' SERIES' in the answer-sheet.

#### PART A

#### INFORMATION & TECHNOLOGY AND

#### COMPUTER SCIENCE ENGINEERING

1.	What is the smallest possible cardinality of a matching in a bipartite grap	h
	G = (L, R, E) with N vertices in each vertex set L and R and at least	d
	N edges ?	

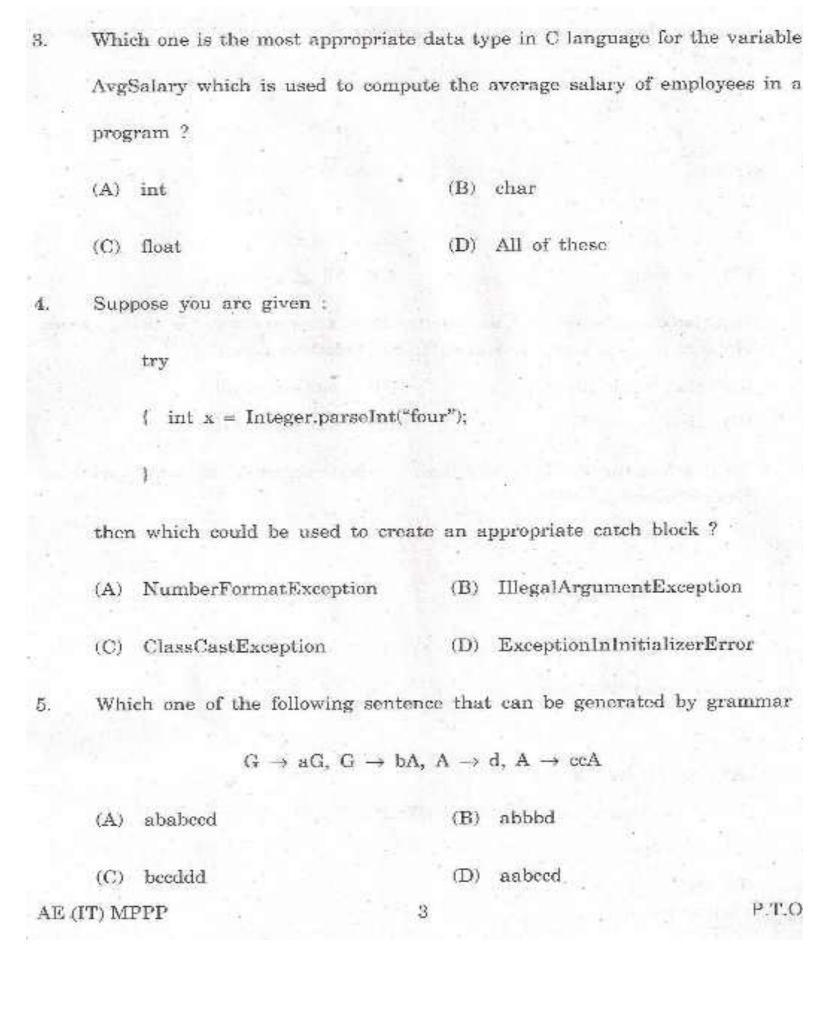
(A) 1

(B) 0

(C) N/2

- (D) N 1
- 2. Cleanroom Software Engineering involves :
  - (A) Formal design

- (B) Statistical testing
- (C) Correctness verification
- (D) All of these



6.		nsider below statements and answer which one of the follow rect ?	ing is
		int $x = 22$ ;	
		int *y;	
		y = &x	
	(A)	x = y; (B) $y = x$ ;	
	(C)	$^{4}y = 45;$ (I) All of these	
7.		C language, which one may be the correct declaration of a string a Sc to store a string constant "HPSC Selection Exam"?	named
	(A)	char HpSc[19] (B) char HpSc[13]	
-33	(C)	char HpSc[25]; (D) char HpSc[17]	
8.		at will be the output of the following, when user enters the text "Appendiction.@HP"	earing
		main()	
		( char text[60];	
		scanf("%[^@]s",text);	
0.		printf("%s",text);	
	(A)	Appearing Exam	
	(B)	Appearing Exam @ Selection.@HP	
	(C)	Selection.	
	(D)	HP	
AE (I	T) MI	PPP 4	

	(A)	*(X + i)	(B)	*(i + X)	
	(C)	X[i]	(D)	All of these	
0.		many number of 1's present + 5 ?	iņ bina	ry representation of 15 × 128	+ 5
	(A)	10	(B)	9	
	(C)	6	(D)	None of these	
1.	Cons	import java.io.*;			
		class Vehicle( )			
		class Wheels( )			
		class Car extends Vehicle im	plemer	nts Serializable( )	
		class Ford extends Car()			
		class Dodge extends Car(			
	181	Wheels w = new Wheel	s( );		
		1			
	Insta	ances of which class(es) can b	e seria	lized ?	
	(A)	Wheels	(B)	Vehicle	
D 4	(C)	Dodge		Ford	m.o.
E (	T) MP	PP	5	P	.T.O.

In C language an array  $X[\ ]$ , then  $i^{\text{th}}$  element can be accessed by :

multivendor	
(B) The Client & Server's environme multivendor	ent is typically heterogeneous and
multivendor	ent is typically heterogeneous and
(C) Client Server architecture is scale	able
(D) All of the above	
13. In Domain Name System which record	is responsible for mapping a domain
name to an IP address?	
(A) NS record	B) A record
(C) PTR record	(D) AAA record
14. An IP Network subnet has been assign	ned a subnet mask of 255,255,255,195
What is the maximum number of hos	sts that can be possibly belong to
subnet ?	
(A) 62	(B) 14
(C) 30	(D) 126
15. Which data structure may be used	in RDBMS ?
(A) Tree	(B) Graph
(C) Array	(D) All of these
AE (IT) MPPP	

	(A) 111111	(B)	101011
	(C) 010100	(D)	000001
7,	The total number of comparisons	binary	search algorithm does to search
	an item key that does not exist, in	the a	rray S which contains 1024 items
	is	1	
	(A) 11	(B)	10
E.	(C) 512	(D)	None of these
8.	Which of the following paramete three-way handshake process?	r(s) a	re negotiated during the TCP's
	(A) Initial sequence number	(B)	Maximum segment size
	(C) Window scale option	(D)	All of these
19.	A serious problem can arise in	the s	sliding window operation when
	either the sending application progr	ram cr	eates data slowly or the receiving
	application program consumos d	ata sl	owly, or both. This problem is
	called the :		
	(A) silly window syndrome	(B)	bug
	(C) unexpected syndrome window	(D)	none of these
AE (l'	T) MPPP 7		P.T.O.
			11.5

Which one is the correct binary representation of the gray code 111110 ?

20.	Rapid Development is possible w	ith	of Software Engineering.
	(A) Waterfall Model	(B)	Spiral Model
	(C) Prototyping Model	(D)	Incremental Model
21.	When the new node inserted in	the right	subtree of the left subtree of the
	critical node then which rotation	n may ap	oply ?
	(A) LL	(B)	LR
	(C) RR	(D)	RL
22.	Pre-order traversal of Binary	tree als	so corresponds to which of the
	following ?		
	(A) In order traversal	(B)	Depth First traversal
	(C) Breadth First traversal	(D)	None of these
23.	What will be the balance factor v	when the	left sub-tree of the tree is on level
	lower than that of the right sul	tree ?	
	(A) 2	(B)	0
	(C) 1	(D)	-1
24.	When any fragment of an IP data	gram is l	ost, what does the destination host
	do to the other fragments?		
	(A) they are accepted	(B)	they are discarded
9.7	(C) they are buffered	(D)	None of these
AE (	IT) MPPP	8	

25.	Every internal node of a multiv	vay search tree	e of order M cons	ists of pointers
	to M sub-trees and contains		key fields wher	e M > 2.
	(Λ) M – 1	(B) M	1 + 1	
	(C) M	(D) A	ll of these	
26.	Hamming distance between 1	001 0010 110	1 and 1010 0010	0 0010 is :
	(A) 1	(B) 1	2	
	(C) 5	(D) N	Ione of these	
27.	How many articulation vertice	es a biconnect	ted graph may o	eontain ?
	(A) 1	(B) 0		
AP.	(C) 2	(D) in	nfinite vertices	
28.	Number of bits in a memory	having 12 bit	address register	and 8 bit data
	register is :		E S	
	(A) 32768	(B) 2	156	40.5
	(C) 4096	(D) 2	2048	
29.	Which one of the open add	dressing tech	nique is free f	rom clustering
	problems ?		1 1 F	12
	(A) double hashing	(B) 1	inear probing	
	(C) quadratic probing	T ANGWAR	All of these	2000
AE	(IT) MPPP	9		P.T.O.

30.	Which of the files used by t	he system and	can't be remo	ved or altered f	rom
	the disk?	1 5			
	(A) Archived file	(B)	Hidden file		
39	(C) System file	(D)	All of these		
31.	Which one of the following	g is used to co	nnect a WAN	with a LAN?	
	(A) Switch	(B)	Bridge		
	(C) Router	(D)	Hub		
32.	The number of address	es assigned t	to an organi	zation in clas	sless
	addressing ;				
	(A) must be a multiple of	of 256 (B)	must be a	power of 2	
	(C) any number	(D)	all of these		
33.					
	S(A, D, E) is 100. Attrib				
	relation S and attribute A				
11	of resultant table when o	ross-product be	etween relatio	n R and S perf	ormed
	in a SQL query is:				
	(A) 200	(B	100		
e =	(C) 20000	(D	10000		
AE	(IT) MPPP	10			

r M1 is f(n) thm ?
-
etwork
col
application
P.T.O.

Which sorting technique is stable sorting?

38. What will be the value of the following expression according to C language rules ?

(A) 3.25

(B) 3

(C) 3.3

(D) 4

39. A code for A, B, C, D, E is given by A : 00, B : 01, C : 101, D : x10, E : yzl where x, y, z are in 0, 1; then x, y and z will have which one of the following values so that the given codes become prefix code?

(A) 
$$x = 1, y = 1, z = 1$$

(B) 
$$x = 0$$
,  $y = 0$ ,  $z = 0$ 

(C) 
$$x = 1$$
,  $y = 0$ ,  $z = 0$ 

(D) 
$$x = 0$$
,  $y = 0$ ,  $z = 1$ 

40. Which of the following is correct if C and C' be distinct strongly connected components in a directed graph G(V, E) and there is an edge (u, v) ∈ E, where u ∈ C and v ∈ C'?

(A) f(C) < f(C')

(B) f(C) > f(C')

(C) f(C) = f(C')

(D) All of these

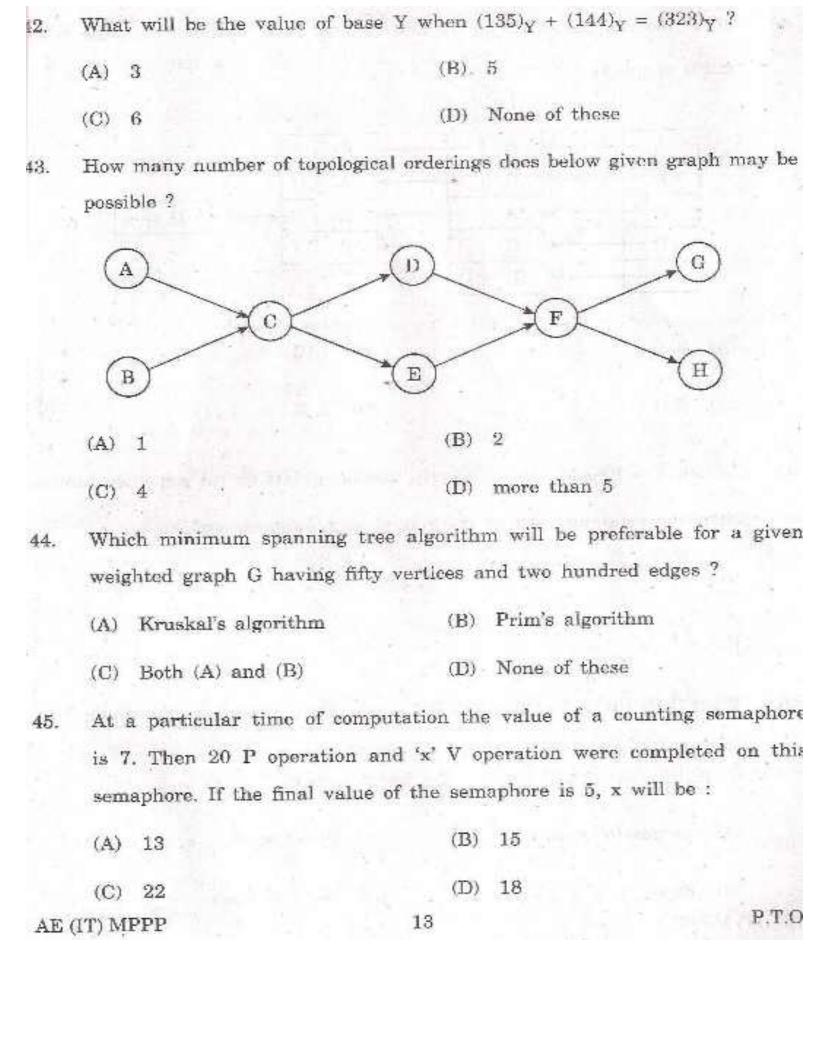
41. Which one of the following algorithms finds augmenting path with breadth first search?

(A) Ford-Fulkerson

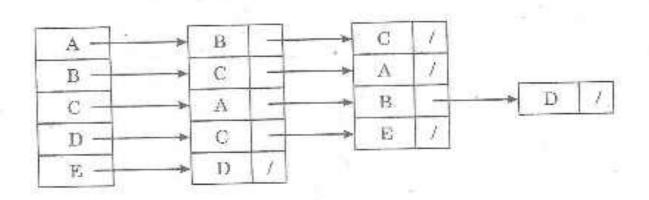
(B) Edmonds-Karp

(C) Both (A) and (B)

(D) None of these



46. How many articulation points and bridges respectively are in the below given graph G ?



(A) 2, 2

(B) 1, 2

(C) 2, 1

(D) 4, 5

47. In Selective Repeat ARQ, if 5 is the number of bits for the sequence number, then the maximum size of the receive window must be :

(A) 1

(B) 15

(C) 31

(D) 16

48. What does the following conditional expression statement determine?

(A) Largest of a, b, c

(B) Smallest of a, b, c

(C) Equality of a, b, c

(D) None of these

Let consider : 49,

m = "Juan is a math major,"

e = "Juan is a computer science major,"

g = "Juan's girlfriend is a literature major,"

h = "Juan's girlfriend has read Hamlet," and

t = "Juan's girlfriend has read The Tempest."

Which of the following expresses the statement "Juan is a computer science major and a math major, but his girlfriend is a literature major who hasn't read both The Tempest and Hamlet?"

(A) 
$$e \wedge m \wedge (g \vee (-h \vee -t))$$

(C) 
$$c \wedge m \wedge g \wedge (-h \vee \sim t)$$
 (D)  $c \wedge m \wedge g \vee (-h \wedge \sim t)$ 

- Consider the statement form  $p \rightarrow q$ , where p = "If Tom is Jane's father then 50. Jane is Bill's niece" and q = "Bill is Tom's brother." Which of the following statements is equivalent to this statement?
  - (A) If Bill is Tom's Brother, then Tom is Jane's father and Jane is not Bill's niece
  - If Bill is not Tom's Brother, then Tom is Jane's father and Jane is not Bill's niece
  - (C) If Bill is not Tom's Brother, then Tom is Jane's father or Jane is Bill's niece
  - (D) If Bill is Tom's Brother, then Tom is Jane's father and Jane is Bill's niece

		n log	n, $2^4$ , n + $n^2$	+ n <sup>3</sup> , n <sup>0</sup>	0.5, e <sup>4</sup> , n <sup>1/lg</sup>	n	
	(A)	n <sup>1/ign</sup> , n log	$n, n + n^2 + n^3$	$^{1}$ , $2^{4}$ , $e^{4}$			
	(B)	n log n, n <sup>1/lg</sup>	$n^{2}$ , $n + n^{2} + n^{3}$	$^{3}$ , $e^{4}$ , $2^{4}$			
	(C)	$n^{1/lgn}$ , $n log$	$n, n + n^2 + n^3$	$^3$ , $e^4$ , $2^4$			
	(D)	n <sup>1/lgn</sup> , n log	$n_{t} 2^{4}, n + n^{2}$	+ n <sup>3</sup> , e <sup>4</sup>			
52.	Whi	ich one operat	es up to the A	pplication	layers ?		
	(A)	Routers		(B)	Switches	One #	
	(C)	Gateways		(D)	All of these		
53.	The	2 Q output of a	a J-K flip flop is	s 0 which	changes to	1 when a	clock pulse
	is a	applied. The in	put J and K are	e respecti	vely (X-deno	otes don't ca	are state) :
	(A)	0 and X		(B)	X and 0	it.	
	(C)	1 and X		(D)	X and 1		
54.	Su	ppose a relati	on R(A, B, C,	D, E) ha	ave the follo	owing FD's	$AB \rightarrow C$
40	BC	$C \rightarrow D, CD \rightarrow$	E, then the pr	rimary ke	y of relation	n R is:	
	(A)	) AB		(B)	BC	(6)	
	(C	) CD		(D)	BE		
AE	(IT) M	MPPP		16			

51. Which one is correct asymptotic order from smallest to largest ?

55,		many minimum number lean function A + AB' +	of NAND gates are required to implement the AB'C ?
3	(A)	7	(B) 1
	(C)	4	(D) 0
56.	pacl		w Go-Back-N ARQ system in which S sends d 6. Packet 3 received at R corrupted, then ach other next?
	(A)	R sends ACK-3, S then	sends just packet 3
	(B)	R sends ACK-2, S then	sends just packet 3
	(C)	R sends ACK-3, S then	sends packets 3, 4, 5, 6, 7, 0 and 1
	(D)	R sends ACK-2, S then	sends packets 3, 4, 5, 6, 7, 0 and 1
57.	Hov	w many times will the p	rogram given below print HPSC ?
		#include <stdio.h></stdio.h>	
		int main()	
		{ fork( );	
		fork();	
		fork();	
		printf("HPSC\n");	
7	(A)	7	(B) 6
	(C)	4	(D) 8
$\Lambda E$	(IT) M	IPPP ,	17 P.T.O.

- (A) A process to upgrade the quality of data after it is moved into a data warehouse.
  (B) A process to reject data from the data warehouse and to create the necessary indexes.
  (C) A process to upgrade the quality of data before it is moved into a data warehouse.
  (D) A process to load the data in the data warehouse and to create the necessary indexes.
  59. Let R and S be binary relations on a set A. Suppose that R is reflexive,
- 59. Let R and S be binary relations on a set A. Suppose that R is reflexive, symmetric, and transitive and that S is symmetric, and transitive but is not reflexive. Which statement is always true for any such R and S?
  - (A) R ∪ S is symmetric but not reflexive and not transitive
  - (B) R ∪ S is symmetric but not reflexive
  - (C) R ∪ S is transitive and symmetric but not reflexive
  - (D) R ∪ S is reflexive and symmetric
- 60. Given the cardinality of table Players, Match, Bating and Bowling (each to be 100), which one is the true number of rows in the fact table ?
  - (A) 100

(B) 100000000

(C) 10000

(D) 1000000

- 1. Errors recovery mechanism of TCP is suitably categorized as :
  - (A) Stop-Wait protocol
  - (B) Selective Repeat protocol
  - (C) Go-Back-N protocol
  - (D) Hybrid of Go-Back-N and Selective Repeat protocols
- 62. Let A = {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16} and consider the divides relation on A. Let C denote the length of the maximal chain, M the number of maximal elements, and m the number of minimal elements. Which is true?
  - (A) C = 3, M = 8, m = 6
- (B) C = 4, M = 8, m = 6
- (C) C = 3, M = 6, m = 6
- (D) C = 4, M = 6, m = 4
- 63. Which of the following statements is correct?
  - (A) An unsigned binary number is multiplied by 2<sup>K</sup> by shifting it left by K bit positions and adding K zeros to the right of the least significant bit.
  - (B) An unsigned binary number is divided by 2<sup>K</sup> by shifting it right by K bit positions and adding K zeros to the left of the most significant bit.
  - (C) A signed binary number is divided by 2<sup>K</sup> by shifting it right by K bit positions and adding the sign bit K times to the left of the most significant bit.

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(D) All of the above

4.	Which one specifies the specific number of entity occurrences associated with
1997: L	one occurrence of the related entity ?
	(A) Connectivity of relationship (B) Cardinality of relationship
	(C) Degree of relationship (D) None of these
65.	Consider a system having N resource of same type. These resources are
	shared by 3 processes X, Y and Z, which have peak demands of 3, 4 and
	6 respectively. For what value of N deadlock will not occur?
	(A) 13 (B) 10
	(C) 7 (D) None of these
66.	In a two-dimensional parity check method three errors affects:
	(A) three parities (B) two parities
	(C) one parity (D) four parities
67.	Which one is the function of a distributed DBMS ?
	(A) Distributed data recovery (B) Replicated data management
	(C) Distributed query processing (D) All of these
68	. When an AND gate is implemented as a CMOS gate then how many tran
	sistors are required ?
	(A) 6 (B) 2
	(C) 4 (D) All of these
A	E (IT) MPPP

69. A combinational circuit has inputs A, B and C and its Karnaugh map is as shown below. Which one gives the output of the circuit? AB 00 01 11 10 1 1. 0 1 1 1 (A'B + AB')C'(A'B + AB')C(B) A'B'C' ABBBC (D) (C) Let R = R(A, B, C, D) and functional dependencies F = {AB → C, C → D, 70. D → Al, then which one is candidate key(s) of relation R ? (A) AB BC (B) All of these BD (C) (D) Size of window for the host H when value of receiver window is 3000 bytes 71. and the value of congestion window is 3500 bytes is : 3500 bytes 6500 bytes (B) (A) (D) None of these (C) 3000 bytes 72. A containership implements: inheritance (A) polymorphism (B) (C) abstraction aggregation (D) P.T.O. AE (IT) MPPP 21

73.	When performing the following op	erations involving 8-bit 2's complement
	number then in which arithmetic	overflow occurs ?
	(A) 01110101 + 11011110	(B) 00110110 + 01000101
	(C) 01110101 - 11010110	(D) 11010011 - 11101100
74.	Which of the following testing me	thods is normally used as the acceptance
	test for a software system ?	
	(A) Integration testing	(B) Unit testing
	(C) Functional testing	(D) Regression testing
75.	When number of address bits i	n a memory is reduced by two and the
	addressability is doubled, then t	he size of the memory i.e. number of bits
74. \\ 75.	stored in the memory will :	
	(A) Halve	(B) Remain unchanged
	(C) Double	(D) None of these
76.	Which one of the following	translate and execute an instruction
	simultaneously ?	The second of a second of the
	(A) Assembler	(B) Compiler
	(C) Operating system	(D) Interpreter
AE	(IT) MPPP	22

77.	. Let we have two algorithms for the same problem and time	e complexit	ty of
	first algorithm is 100 N and $0.01~\mathrm{N}^2$ for the second algorithm	hm. The v	alue
W.	of N for which first algorithm start to show its better perfe	rmance is	
	(A) N > 10000 (B) N < 10000		
	(C) $N > 1000$ (D) No such value of	N possible	9
78.	When the memory chip size is $256 \times 1$ bits then the number of	f chips requ	aired
	to make up 1 K bytes of memory is :		
	(A) 4 (B) 8		
	(C) 32 (D) 24		
79.	) functions cannot use recursion.		
1	(A) user defined (B) friend		
	(C) inline (D) polymorphic		
80.	0. A class having a pure virtual function is called as :		
	(A) abstract class (B) friend class		
	(C) base class (D) All of these		
AE (	E (IT) MPPP 23	I	P.T.O

## PART B

# ELECTRONICS AND COMMUNICATION ENGINEERING

For writing state equations for a network, the following set is used as state variables:

- (A) Capacitor voltage and inductor voltage
- (B) Capacitor current and inductor voltage
- (C) Capacitor voltage and inductor current
- (D) Capacitor current and inductor current
- 2. The relation between quality factor (Q) of a coil and the frequency (f) is :
  - (A) Q varies linearly with f
- (B) Q varies inversely with f
- (C) Q is independent of f
- (D) None of these
- 3. If the current in a 20  $\Omega$  resistor is given by :

$$i(t) = 4 + 5\sin \omega t - 3\cos 3\omega t \text{ Amps},$$

the power consumed in watts by the resistor is :

(A) 660

(B) 320

(C) 250

(D) 90

4.	For a parallel RLC resonan	at circuit,	the da	amped frequency, $\omega_{cl} = \sqrt{8} \text{ rad/sec}$
	and bandwidth = 2 rad/s	sec, the r	esona	nt frequency in rad/sec is given
	by:			
	(A) √10		(B)	$\sqrt{7}$
	(C) 2		(D)	3
5.	The unit of $\nabla \times \mathbf{H}$ is :			
	(A) Ampere		(B)	Ampere - Meter
	(C) Ampere/Meter		(D)	Ampere/Meter <sup>2</sup>
6.	An inductor L, 5 Ω and	10 Ω resi	stors	are all connected in series across
	a 50 cos out voltage source	e. If the p	ower	consumed by the 5 $\Omega$ resistor is
	10 watts, the power facto	or of the c	ircuit	is:
	(A) 0.3		(B)	0.4
	(C) 0.6	61	(D)	0.8
7.	For a two terminal networ	rk, if the s	pplie	d voltage is, $v(t) = 160 \sin(\omega t + 10^{\circ})$
	volts and the resulting	current	is, i(	$t$ ) = $5 \sin(\omega t - 20^{\circ})$ Amps. The
	reactive power absorbed	by the cir	euit i	n Vars is :
	(A) 136.8		(B)	346.4
	(C) 400		(D)	200
AE	(IT) MPPP	2!	5	P.T.O.

- 8. Given the driving point impedance of a network, z(s) = (s + a)/(s + b), for sinusoidal excitation the voltage leads the current if:
  - (A) a and b are real positive and a > b
  - (B) a and b are real positive and a < b
  - (C) a is real positive and b is real negative
    - (D) none of the above is correct
  - 9. If two-port network is reciprocal, which of the following is not true?
    - (A)  $z_{21} = z_{12}$

(B)  $y_{21} = y_{12}$ 

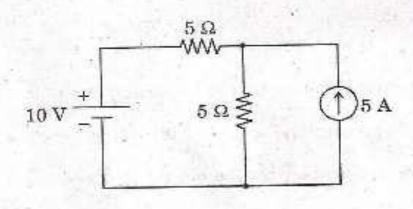
(C)  $h_{21} = h_{12}$ 

- (D) AD = BC + 1
- 10. If  $f(t) = \sin 10t + \sin 20t$ , what is the r.m.s. value of f(t)?
  - (A) 1

(B) 0.5

(C) n

- (D) 1.414
- 11. The voltage across 5 A source in the given circuit is :



(A) 25 V

(B) 20 V

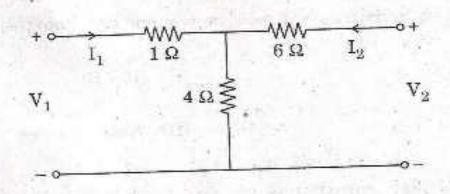
(C) 17.5 V

(D) 15.5 V

ÁE (IT) MPPP

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12. For the network shown, the parameters  $h_{11}$  and  $h_{21}$  are :



(A) 5 Q and -2/3

(B) 3.4 and -2/5

(C) 3.4 and -3/5

(D) none of these

13. The d.c. gain of a circuit having its transfer function  $\frac{25}{(s+2)(s+3)}$  is:

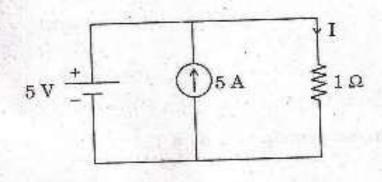
(A) 25

(B) 10

(C) 25/6

(D) 5/6

14. The value of current I flowing through 1  $\Omega$  resistor for the circuit shown is :



(A) 10 A

(B) 6 A

(C) 5 A

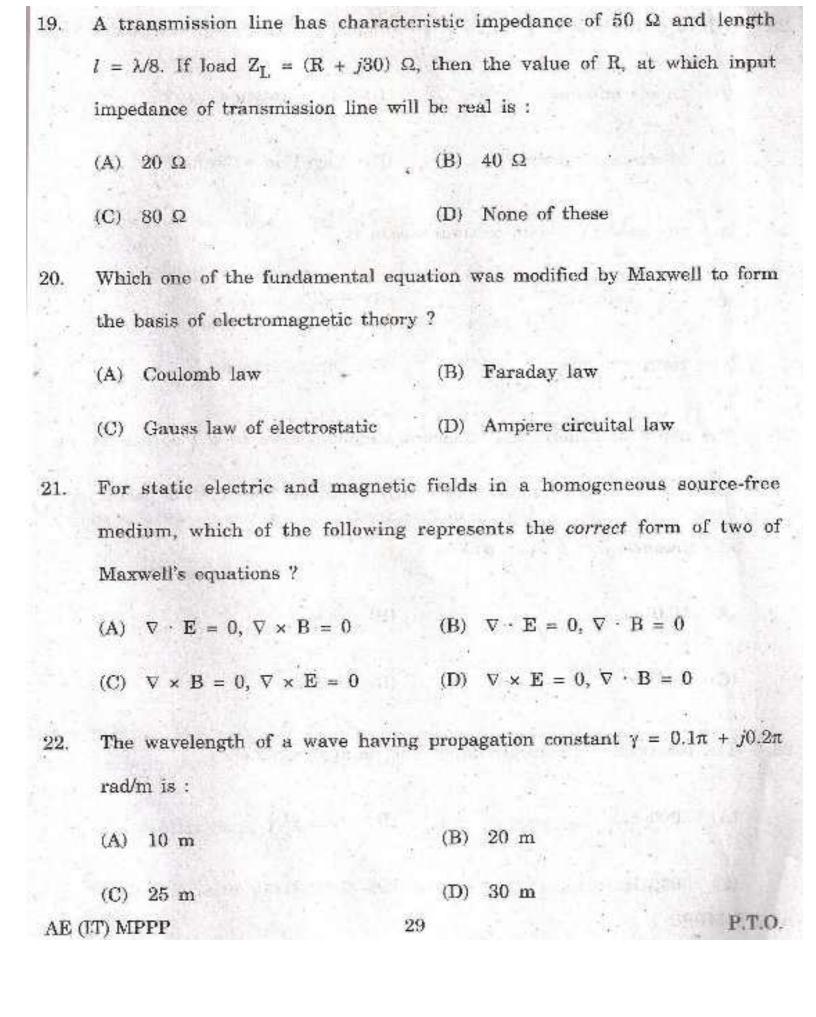
(D) 4 A

AE (IT) MPPP

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P.T.O.

15.	A drawn wire of resistance 5 $\Omega$ is fi	irther drawn so that its diameter becomes
61	one-fifth, its resistance will now b	e (volume remaining same) :
	(A) 625 Ω	(B) 125 Ω
	(C) 25 Ω	(D) None of these
16.	A parallel plate capacitor is made	le of two circular plates separated by a
	distance of 5 mm and with a die	electric of dielectric constant 2.2 between
	them. When the electric field in th	he dielectric is $3 \times 10^4$ V/m, charge density
	of the positive plate will be close	to:
	(A) $3 \times 10^{-7} \text{ C/m}^2$	(B) $6 \times 10^4 \text{ C/m}^2$
	(C) $3 \times 10^4 \text{ C/m}^2$	(D) $6 \times 10^{-7} \text{ C/m}^2$
17.		g (in free-space) electromagnetic wave has
	a peak value of 20nT. The peak	value of electric field strength is :
	(A) 3 V/m	(B) 6 V/m
	(C) 9 V/m	(D) 12 V/m
18.	A rectangular waveguide acts a	sa:
	(A) low-pass filter	(B) high-pass filter
	(C) band-pass filter	(D) band-stop filter
ΑÉ	(IT) MPPP	28



<ul> <li>(A) Dipole antenna</li> <li>(B) Horn antenna</li> <li>(C) Microstrip antenna</li> <li>(D) Yagi-Uda antenna</li> <li>24. Antenna used in mobile communication is:</li> <li>(A) Dish antenna</li> <li>(B) Patch antenna</li> <li>(C) Horn antenna</li> <li>(D) Dipole antenna</li> <li>25. The depth of penetration of electromagnetic wave in a medium having conductivity σ at a frequency of 1 MHz is 25 cm. The depth of penetration at a frequency of 4 MHz will be:</li> <li>(A) 50.0 cm</li> <li>(B) 25.0 cm</li> <li>(C) 12.5 cm</li> <li>(D) 6.25 cm</li> <li>(E) 12.5 cm</li> <li>(E) 4000 Hz</li> <li>(C) 5000 Hz</li> <li>(D) 6000 Hz</li> <li>(E) 5000 Hz</li> <li>(D) 6000 Hz</li> </ul>			Contraction to the Contraction of the Contraction o
24. Antenna used in mobile communication is:  (A) Dish antenna (B) Patch antenna (C) Horn antenna (D) Dipole antenna  25. The depth of penetration of electromagnetic wave in a medium having conductivity σ at a frequency of 1 MHz is 25 cm. The depth of penetration at a frequency of 4 MHz will be:  (A) 50.0 cm (B) 25.0 cm (C) 12.5 cm (D) 6.25 cm  26. The bandwidth of voice grade channel is approximately:  (A) 3000 Hz (B) 4000 Hz (C) 5000 Hz (D) 6000 Hz		(A) Dipole antenna	(B) Horn antenna
<ul> <li>(A) Dish antenna</li> <li>(B) Patch antenna</li> <li>(C) Horn antenna</li> <li>(D) Dipole antenna</li> <li>25. The depth of penetration of electromagnetic wave in a medium having conductivity σ at a frequency of 1 MHz is 25 cm. The depth of penetration at a frequency of 4 MHz will be:</li> <li>(A) 50.0 cm</li> <li>(B) 25.0 cm</li> <li>(C) 12.5 cm</li> <li>(D) 6.25 cm</li> <li>(E) 3000 Hz</li> <li>(D) 6000 Hz</li> <li>(E) 5000 Hz</li> <li>(D) 6000 Hz</li> </ul>		(C) Microstrip antenna	(D) Yagi-Uda antenna
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26. The bandwidth of voice grade channel is approximately:  (A) 3000 Hz  (B) 4000 Hz  (C) 5000 Hz  (D) 6000 Hz		(A) 50.0 cm	(B) 25.0 cm
(A) 3000 Hz (B) 4000 Hz (C) 5000 Hz (D) 6000 Hz		(C) 12.5 cm	(D) 6.25 cm
(C) 5000 Hz (D) 6000 Hz	26.	The bandwidth of voice grade ch	nannel is approximately :
		(A) 3000 Hz	(B) 4000 Hz
AE (IT) MPPP 30		(C) 5000 Hz	
	AĖ	(IT) MPPP	30

Which of the following antenna is designed by modifying waveguides ?

27.	Bit rate is always	to the baud rate.
	(A) equal	(B) more
	(C) equal or more	(D) none of these
28.	A signal of bandwidth 4 kHz	is recorded in a tape recorder at normal speed.
	If for transmission purposes,	the recorder is replayed at 4 times the normal
3	speed, then the transmission	n bandwidth will be :
1	(A) 1 kHz	(B) 4 kHz
	(C) 8 kHz	(D) 16 kHz
29.	In a 100% modulated AM s	ignal with carrier power 100 W, the power in
	the upper sideband is:	
	(A) 75.5	(B) 50
	(C) 25	(D) none of these
30.	Medium wave AM radio bro	padcast band is :
151	(A) 3 MHz to 10 MHz	(B) 10 MHz to 30 MHz
	(C) 88 MHz to 108 MHz	(D) 530 kHz to 1600 kHz
AE (	IT) MPPP	31 P.T.O.

31.	The topology used by a contral co	ntroller	or hub is:
*1	(A) Mesh	(B)	Star
	(C) Bus	(D)	Ring
32.	In FM modulation, when the n	nodulati	on index increases, transmitted
	power is:		
	(A) increased	(B)	decreased
	(C) constant	(D)	none of these
00		tata of a	
33.	An earth station transmitter cons	1818 01 4	7 7
	(A) RF to IF down converter	(B)	IF to RF converter
	(C) Power to RF converter	(D)	None of these
34,	The maximum power in AM, whe	en modu	dation index is
	(A) 0.1	(B)	0.5
	(C) 0.7	(D)	1.0
35.	An AM demodulator can be imple	emented	with a linear multiplier followed
	by the following filter:		
	(A) low-pass	(B)	high-pass
	(C) band-pass	(D)	band-stop
AE (	(IT) MPPP	32	

36.	The following is not associated with a p-n junction?
	(A) junction (B) depletion capacitance
	(C) charge storage capacitance (D) channel length modulation
37.	A Zener diode, when used as voltage regulator, is biased in :
	(A) forward bias region
121	(B) reverse breakdown region
	(C) forward bias current mode
	(D) reverse bias region below breakdown voltage
38.	The phenomenon of "Early Effect" in BJT refers to reduction of effective
	base-width caused by:
	(A) electron-hole recombination at the base
	(B) the forward biasing of emitter-base junction
	(C) the reverse biasing of base-collector junction
	(D) the early removal of stored base charge
39.	The action of a JFET in its equivalent circuit can best be represented
100	as:
100	(A) Current controlled current source
	(B) Current controlled voltage source
	(C) Voltage controlled current source
	(D) Voltage controlled voltage source
AE	(IT) MPPP 33

40.	If t	he differential vo	ltage gai	in and	the co	ommon mode gain of	a differential
11	amj	plifier are 50 db	and 4 d	b respe	ective	ly, then its CMRR is	i.:
	(A)	54. db			(B)	19.5 41.	
	570	3.41.380	(4)	7400	(13)	12.5 db	
	(C)	46 db			(D)	∞ db	2
	103		1				
41.	The	minimum numb	er of die	odes in	a ful	l wave rectifier is ;	
	03%		2				
	(A)	1	4.1	1	(B)	2	17
	(C)	2			OS.		H. T. B.
	(0)	9			(II)	4	
42.	Prac	ctically in order t	to create	an elec	tron-	hole pair in p-n diod	e, the energy
		14 W - 24 N				1.5	
	of t	he incident photo	n should	i be:			
	(A)	Less than E <sub>g</sub>		- 2	(B)	Equal to Eg	1.5
	1977	g			1437	Equal to Eg	3
	(C)	Greater than E	g		(D)	Much greater than	$\mathbf{E}_{\sigma}$
			20				
43.	Give	en that germaniu	m (Ge) ha	ıs a bar	id gar	o of 0.67 eV, what is t	he maximum
34	wav	elength that will	be abso	rbed by	/ it ?		
9			4	TOTALISM STA	0.055000		
	(A)	7080 nm			(B)	4560 nm	
				WE	9		4
	(C)	1850 nm			(D)	1100 nm	
AE (I'	T) MI	PPP		34		100	

nit	y gain frequency of op-amp	741 is :	THE PARTY	THE RESERVE	
1)	100 MHz	(B)	1 MHz	and style	
C)	100 kHz	(D)	10 Hz		
lo	ssy integrator exhibits a fro	equency r	esponse simil	ar to a:	
A)	low-pass filter	(B)	high-pass fi	lter	
C)	band-pass filter	(D)	band-stop fi	lter	
n	a piecewise linear diode mo	del, the d	iode resistan	ce is:	
A)	low for all biases				
(B)	high for all biases				
(C)	low for biases greater than	cut in vo	oltage and hig	th for biases le	ss than
N.	cut in voltage				The state of
(D)	high for biases greater tha	an cut in	voltage and lo	w for biases le	ess than
	cut in voltage				
In	a p-n-p transistor biased	in the a	ctive region	, in the n-typ	e base,
ho	les:				
(A	) drift				
(B	diffuse and recombine				
(C	are injected from collected	or			
(I	)) experience avalanche m	ıltiplicatio	on		
	MPPP .	35			P.T.O.

- 48. The Cascade amplifier is a multi-stage configuration of :
  - (A) CC-CB

(B) CE-CB

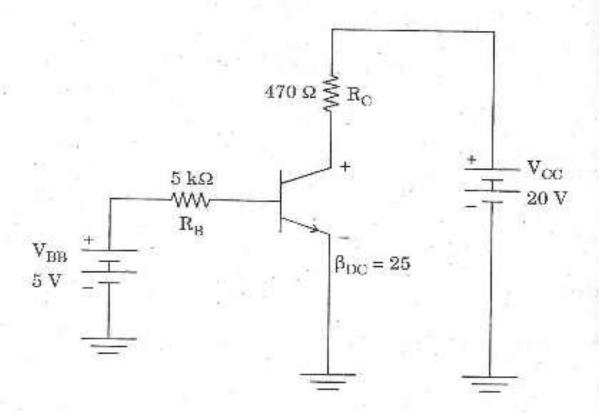
(C) CC-CE

- (D) CC-CC
- 49. Three identical amplifiers with each having a voltage gain of 50 are cascaded.
  The open loop circuit voltage gain of the combined amplifier is:
  - (A) 48 db

(B) 51 db

(C) 98 db

- (D) 102 db
- 50. Refer to Fig., the value of VBE is :



(A) 0.2 V

(B) 0.6 V

(C) 0.7 V

(D) 1.2 V

51.	The width of the depletion region	on of a $p \cdot n$ junction :	20
	(A) increases with reverse bias	voltage	
	(B) decreases with reverse bias	s voltage	
	(C) is not affected by voltage		
	(D) increases with forward bias	s voltage	
52.	A MOSFET acts as a voltage c	ontrolled variable resistor in the :	
	(A) cut-off region	(B) linear region	
	(C) saturation region	(D) sub-threshold region	
53.	Biasing in integrated circuits is	done using :	
	(A) self-biasing circuit	(B) reverse biased diode	
	(C) current source	(D) sinusoidal voltage	5
54.	A BJT can be used for linear a	amplification of small signals in the	e:
	(A) cut off region	(B) active region	
	(C) saturation region	(D) reverse active region	** *****
55.	Which of the following stateme	nts is true ?	
	(A) A BJT has a higher trans	sconductance than a MOSFET	
	(B) A MOSFET has a higher	transconductance than a BJT	
8	(C) Both have the same trans	sconductance	
	(D) None of the above is corr	ect	
AE (	IT) MPPP	37	P.T.O.

	(A) Data transfer group	(B) Logic	cal group
	(C) Branching group	(D) Arith	imetic group
57.	8085 microprocessor is h	aving address lines :	
			26
	(A) 8	(B) 16	No Williams
	(C) 32	(D) None	of these
58.	Which of the following is	an interrupt of micro	processor 8085 ?
4	(A) READY	(B) SOD	
	(C) CLK	(D) TRAI	
59.	Stack pointer in 8085 mi	croprocessor is a :	
	(A) 4-bit register	(B) 8-bit	register
	(C) 16-bit register	(D) None	of these
60.	Which flag will be affecte	d by giving the instru	action DCXRP ?
	(A) Panty flag	(B) Carry	flag and sign flag
	(C) No flag is affected	(D) All fla	gs will be affected
AE (I	T) MPPP	-38	

56. Instruction LHLD 2000 belongs to :

61.	If one input to an XOR gate is A	and th	the other is 1, the output is:
	(A) 0	(B)	1
	(C) A	(D)	A'
62.	A logic function may be implement	ed us	sing:
	(A) ROM	(B)	Decoder
	(C) Multiplexer	(D)	All of these
63.	The number of logic functions of N	vari	lables are :
	(A) N	(B)	2 <sup>N</sup>
	(C) 2 <sup>2<sup>N</sup></sup>	(D)	N log N
64.	Which logic family is the fastest?		
	(A) DTL	(B)	NMOS
	(C) ECL	(D)	TTI.
65.	A combinational system has:		.00
	(A) two states	(B)	one state
	(C) zero state	(D)	infinite number of states
AE (	IT) MPPP 39	i	P.T.O.

The inverse Laplace transform of  $X(s) = \frac{-3}{(s+2)(s-1)}$  ROC : -2 < Re(s) < 166. 18 : (A)  $e^{-2t}u(t) - e^{-t}u(t)$ (B)  $e^{-t}u(t) + e^{t}u(-t)$ (C)  $e^{-2t}u(t) + e^{t}u(-t)$ (D)  $-e^{-2t}u(-t) + e^{t}u(-t)$ For a system with input  $x[n] = \delta[n-1]$  and impulse response  $h[n] = \delta[n+1]$ , 67. the z-transform of the output is : (A) z (B)  $z^{-1}$ (C) 0 (D) 1 A finite length signal has  $X(z) = 0.5 + 0.2z^{-1} + 0.7z^{-2} + 0.5z^{-3}$ , its ROC 68. is : inside the unit circle (B) on the unit circle outside the unit circle (D) entire z-plane except z = 0 The frequency response of a system with  $h[n] = \delta[n] - \delta[n-1]$  is given 69.by : (A)  $\delta(e^{jw}) = \delta(e^{j(w-1)})$ . (B)  $1 - e^{jw}$  $u(e^{jiv}) = u(e^{j(w-1)})$ (D) 1 − e<sup>-jio</sup> The Fourier transform of a signal x(t) is,  $X(f) = 1/j\pi f$ , then x(t) is equal 70.to : (A) u(t) (B) 1 (C) 2u(t) - 1AE (IT) MPPP 40

71.	For a feedback control system, i	$f(G(s)) = \frac{4}{s(s+3)}$ and $H(s) = \frac{1}{s}$ , then the type
	of the control system is :	
	(A) 2	(B) 1
	(C) 0	, (D) None of these
72.	The gain margin in dbs. for	r a unity feedback control system, whose
	open-loop transfer is $G(s) = -\frac{1}{s}$	83
	(A) 0	(B) 1
	(C) 20	(D) •••
73.	In servo system, the device	used for providing derivative feedback is
	called:	
	(A) synchro	(B) servomotor
	(C) potentiometer	(D) tacho generator
Ha.	the the open loop transfer functi	ion of a system, $G(s)H(s) = \frac{4}{s(s+2)(s+4)(s+6)}$
74.		
	the centroid of the root-locus	is located at :
	(A) -1	(B) -2
	(C) -3	(D) -4
75.	The open-loop transfer functi	ion of the control system has one pole in the
	RHS-plane and its Nyquist pl	ot encircles $-1 + j0$ point twice in the clockwise
	direction, then the system is	
	(A) stable	(B) unstable
	(C) critically stable	(D) conditionally stable
ΑE	(IT) MPPP	41 P.T.O.

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ne ?
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A STATE OF
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76. When the roots of the characteristic equation of a feedback system are

## PART C

## COMPULSORY AND COMMON FOR ALL CANDIDATES

81.	Which of the following dances is not correctly matched with the area it is
	specifically performed ?
	(A) Gee and Burah dance — Sirmaur
	(B) Shunto dance — Lahaul and Spiti
	(C) Dangi dance — Kinnaur
	(D) Cholamba dance — Ropa valley
82.	Which of the following fairs is not correctly matched with the area ?
	(A) Minjer fair — Chamba
	(B) Renuka fair — Sirmaur
	(C) Lavi trade fair — Rampur
	(D) Naina Devi fair — Mandi
83.	Jhoori is :
	(A) A type of song
	(B) A type of dance
	(C) A type of musical instrument
	(D) A string puppet
84.	Which of the following is not a scheduled tribe in Himachal Pradesh?
	(A) Gaddis (B) Pangawals
	(C) Kennets (D) Kinnars
AE	(IT) MPPP 43 P.T.O.

85.	Dhe	oti Kurta, coat, coat waist, turban and a hand towel is the traditional
	dre	ss of:
	(A)	Rajputs
	(B)	Scheduled tribes of Lahaul Spiti
	(C)	Kolis
	(D)	Brahmins
86.	Who	of the following is the Chairman of the HP Society for promotion of IT
100	and	E-Governance (SIYEG) ? -
	(A)	Chief Secretary
	(B)	Secretary, IT, Government of India
	(C)	Director-General, NIC
	(D)	Chief Minister
87.	HP	State Co-operative Agriculture and Rural Development Bank Ltd. is :
	(A)	Registered as a cooperative society under the HP Co-operative Societies
		Act, 1956
	(B)	Registered as public limited company
	(C)	Registered as a private limited firm
	(D)	Registered as a joint sector company
AE (T	T) MP	

88.	Who of the following was elect	ed unopposed as the President of the HP Olympic
	Association in 2012 ?	
	(A) DD Thakur	(B) Anurag Thakur
	(C) Sanjeev Katwal	(D) Sushil Bhardwaj
89.	The biggest hazard that pose	es the biggest threat to the state of HP is :
	(A) Drought	(B) Dam failures
2 9	(C) Earthquakes -	(D) Flash floods
90.	How much area of HP is und	der cultivation ?
	(A) About 25%	(B) About 20%
	(C) About 15%	(D) About 10%
91.	Disaster Management Act was	s passed in the year :
	(A) 2000	(B) 2002
	(C) 2003	(D) 2005
92.	Who is the Chief Minister of I	Haryana since October, 2014 ?
	(A) Rao Virendra Singh	(B) Manohar Lal Khattar
	(C) Rao Inderjit Singh	(D) C-+
AE (TT	T) MPPP	(D) Captain Abhimanyu
.113 (11	) WIFF	45 P.T.O.

93.	Wh	ich of the following is	not one o	f the	expenditure reform	ns introduced by	ÿ.
	the	Union Finance Mini	stry under	the 1	Medi Government	?	
	(A)	An administrative m	inistry can	appro	ve projects upto 10	00 crores withou	t.
		the prior approval	of the Fin	ance 1	Ministry		
	(B)	Only projects costin Union Cabinet	g rupees 1	000 cr	ore would require	approval by the	8
	(C)	Schemes shall be a	valuated u	sing n	neasurably define	d outcomes	
	(D)	Union Cabinet's appr	oval is nece	ssary i	for projects costing	rupees 300 crores	ò
94.	Acc	ording to a review in	Journal N	lature,	a university is	supposed to be	ř
	(1)	Centre of education		8	160	in a	
	(2)	Centre of discovery	and resea	rch			
93	(3)	Engine of economic	growth		300		
	(4)	Beacon of social jus	tice				
	Sele	ect the correct answer	from the	codes	given below:		
	(A)	1, 2, 3 and 4	1.5	(B)	1, 2 and 3		
	(C)	2, 3 and 4		(D)	1, 2 and 4		
<del>)</del> 5.	Who	o of the following was	awarded '	Man I	looker Internation	nal Prize 2013' ?	Ř
	(A)	Lydia Davis		(B)	Richard Flanaga	u	
	(C)	Marino Warner	10	(D)	Nadeem Aslam		
€.	The	Warsaw Climate Co	nference w	as hel	ld in :		
	(A)	November 2011		(B)	December 2012		
	(C)	October 2013		(D)	November 2013		
AE (ľ	r) Mi	ppp	46				
			5.	(±)		4	

6 months before the date of elections  (C) False Affidavits should become a ground for disqualification for being an MP or MLA  (D) There should be no bar to contest election to the Lok Sabha or the State Assembly on a person declared as proven insolvent  100. Civil Nuclear Agreement between India and the USA was signed in:  (A) 2006  (B) 2007  (C) 2008  (D) 2009			
98. Which of the following statements about Swasthya Bima Yojna is no correct?  (A) It is a scheme under the Ministry of Labour  (B) It is a scheme under the Ministry of Health  (C) It is a scheme that benefits unorganized workers  (D) It is a scheme that is in operation since 2008  99. Which of the following is not a proposal regarding debarring candicate from contesting elections was submitted by the Election Commission is October, 2014?  (A) All those against whom charges have been framed in serious crime involving punishments of 5 years  (B) Such charges should have been framed by a competent court at leas 6 months before the date of elections  (C) False Affidavits should become a ground for disqualification for being an MP or MLA  (D) There should be no bar to contest election to the Lok Sabha or the State Assembly on a person declared as proven insolvent  100. Civil Nuclear Agreement between India and the USA was signed in:  (A) 2006  (B) 2007  (C) 2008  (D) 2009		(C)	FAO
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India is re-elected for 2015-2017 as member of :

(A) United Nations Human Rights Commission

97.

(B) UNESCO