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

TEST BOOKLET AP (CC) BOTANY—2018

Time	Allowed: 2 Hours] [Maximum Marks: 100 All questions carry equal marks.
	INSTRUCTIONS
1.	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.	Write your Roll Number only in the box provided alongside.
T.	Do not write anything else on the Test Booklet.
3.	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.
4.	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)
5.	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.
, 6.	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
W €:	on the Test Booklet or in any paper other than the answer sheet shall not be examined.
7.	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 negative marking and 1/4 (0.25) of the marks will be deducted as penalty for wrong answers.
8.	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.
9.	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.
10.	After you have completed the test, hand over the Answer Sheet only, to the Invigilator.

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Time	Allov	wed: 2 Hours]			Maximum M	arks: 100
1.	In t	he seeds of Angiospe	rms the structu	re micropyl	e helps in :	
	(A)	Water transportation	n (B)	Photosynt	hesis	8
	(C)	Water absorption	(D)	Mineral t	ransportation	n .
2.	Whi	ch of the following p	rocesses played	important 1	ole in impro	ving traits
	of c	ultivated plants duri	ng human histo	ry?		
	(A)	Sexual selection				
	(B)	Artificial selection	age and		s F	3 3 2
	(C)	Natural selection				
*	(D)	Use of chemical pes	ticides and her	bicides		
3.	In (Gymnosperms, megas	porophyll is equ	ivalent to :	* * * *	V _(m)
	(A)	Carpels	(B)	Stamens		
	(C)	Leaves	(D)	Female co	one	
4.	Ovu	les are largest in :				
	(A)	Pinus	(B)	Ginkgo		. Su
	(C)	Cycas	(D)	Cedrus		E E
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5.	Phlo	em tissue of Gymnosperms vari	es fr	om phloem of Angiosperms in:
	(A)	Presence of Parenchyma	(B)	Absence of companion cells
	(C)	Absence of sieve tubes	(D)	Absence of sclerenchyma
6.	Peri	sperm is formed by:		
	(A)	Outer integuments	(B)	Endosperm
	(C)	Funiculus	(D)	Nucellus
7.	In a	typical angiospermic anther wa	all:	
	(A)	Tapetum lies just inner to the	endo	othecium
	(B)	Endothecium lies inner to the	midd	le layers
Į.	(C)	Tapetum lies next to the epide	ermis	
	(D)	Middle layers lie between endo	theci	um and tapetum
8.	Who	was first to describe the pheno	omen	on of double fertilization?
	(A)	Hofmeister	(B)	Leeuwenhoek
,	(C)	Nawaschin	(D)	Strasburger
9.	In a	bisexual flower when gynoecium	n ma	tures earlier than the androecium
	it is	called:		
	(A)	Protogyny	(B)	Protandry
**	(C)	Autogamy	(D)	Heterogamy
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10.	which of the following is considered as "living fossil"?	9
v.	(A) Pinus (B) Cycas	
	(C) Zamia (D) Podocarpos	
11.	In Cycas endosperm is:	
577 10	(A) Haploid and pre-fertilization product	
	(B) Diploid and pre-fertilization product	* *
#5 (F	(C) Haploid and post-fertilization product	
	(D) Diploid and post-fertilization product	
12.	In alpine region 'Red Snow' is caused by which of the following	g organisms
. 81	(A) Red alga Batrachospermum (B) Oscillatoria	# 8
	(C) Spirogyra (D) Chlamydomonas	a
13.	All the members of division Algae possess the pigments:	
	(A) Chlorophyll a and Carotene	
38 18	(B) Chlorophyll b and Carotene	2 8 2 2
	(C) Chlorophyll a and Chlorophyll b	
* 3	(D) Phycobilins and Carotene	
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14.	Pyre	enoids are structures composed or	f :		
	(A)	Starch surrounded by protein g	rains		r
	(B)	Starch surrounded by oil drople	ets		2 2 8
	(C) _.	Protein surrounded by oil dropl	ets		; ;
	(D)	Protein surrounded by starch g	rains	* 8 =	8 8 8 9 9 9
15.	Eye	spot or stigma is present in:		8 V	
500	(A)	Nostoc	(B)	Chlamydomonas	a
	(C)	Spirogyra	(D)	Ulothrix	g - 6
16.	The	nitrogen fixing algae belong to	the o	class:	6 K
	(A)	Rhodophyaceae	(B)	Cyanophyaceae	
	(C)	Chlorophyaceae	(D)	Phaeophyaceae	
17.	The	term Nanandrium in case of Oe	edogo	nium is used for:	
	(A)	Dwarf male	(B)	Normal male	N g
	(C)	Normal female	(D)	Dwarf female	E 65
18.	In a	typical angiosperm, what is the	sequ	ence of structures	encountered by
	the	tip of a growing pollen tube on	its v	vay to the egg?	
	(A)	Stigma, style, ovary, micropyle	<u>\$</u>		
169	(B)	Stigma, ovary, style, micropyle		, »	
	(C)	Ovary, stigma, style, micropyle	33-5	200 5 - 20	
	(D)	Ovary, stigma, micropyle, style		inc.	~ ~
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19.	Filif	form apparatus is located in:		
•	(A)	Synergid	(B)	Anther wall
8.	(C)	Secondary nucleus	(D)	Egg
20.	The	process of Fertilization in which n	nale g	rametes area carried through pollen
	tube	e is known as :	٠	
	(A)	Porogamy	(B)	Syngamy
	(C)	Siphonogamy	(D)	Chalazogamy
21.	The	meristematic tissue which gener	ally	develops in the cortical region and
	proc	duces cork on the outer side a	nd s	econdary cortex on inner side is
	kno	wn as:	9	
	(A)	Phellem	(B)	Phelloderm
	(C)	Periderm	(D)	Phellogen
22.	The	fully formed male gametophyte	in a	angiosperms contains :
	(A)	One generative cell, one tube	cell a	and one body cell
	(B)	One tube cell, one stalk cell a	nd o	ne generative cell
	(C)	One tube nucleus, one vegetat	ive c	ell and one generative cell
	(D)	One vegetative nucleus and tv	vo ma	ale gametes
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23.	Which of the following types of pol	lination	results in comparatively greater
	wastage of pollen grains?		
	(A) Chiropterophily	(B)	Anemophily
	(C) Entomophily	(D)	Ornithophily
24.	Which of the following terms is not	associat	ed with the process of pollination?
	(A) Syngamy	(B)	Autogamy
	(C) Allogamy	(D)	Geitonogamy
25.	If an endosperm cell of an angiospe	rm cont	tains 24 chromosomes, the number
·	of chromosomes in each cell of roo	ot will	be :
	(A) 8	(B)	4
, *	(C) 16	(D)	24
26.	In which of the following phys	iologic	al process carrier proteins are
	involved ?		
	(A) Water transport	(B)	Water evaporation
	(C) Active transport	(D)	Passive transport
27.	In which of the following group of p	plants f	for the first time sporophytic phase
	became dominant?	08 T	
	(A) Bryophytes	(B)	Pteridophytes
	(C) Angiosperms	(D)	Gymnosperms
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28.	Sporangium bearing leaf is called	ed :	
8)	(A) Sorus	(B)	Sporophyll
	(C) Romentum	(D)	Indusium
29.	Heterospory is defined as the pr	oduction	of:
21 gt	(A) Diploid and tetraploid spore	es	
*,	(B) Sexual and asexual spores		
	(C) Large and small spores		
8	(D) Haploid and diploid spores	38 11	
30.	Formation of sporophyte from a ve	getative	portion of prothallus without sexual
	fusion is called:		
	(A) Apogamy	(B)	Apospory
£2	(C) Apomixis	(D)	Apocarpy
31.	A meristematic zone is present	in the sp	porophyte of:
	(A) Marchantia	(B)	Polytrichum
	(C) Porella	(D)	Anthoceros
32.	For dispersal of spores, dehiscence	e of moss	capsule takes place by the rupture
*	of which of the following?		
	(A) Calyptra	(B)	Operculum
	(C) Peristome	(D)	Annulus
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	(A) Ulothrix	(B) P	Polysiphonia	8
N W	* * * * * * * * * * * * * * * * * * * *			
5 .	(C) Riccia	(D) A	leurospora	
0.4	r C: laf haraling and	vormiform	groon cells in	
34.	Leaf is composed of hyaline and	verimorii.	green cens m.	
	(A) Funaria	(B) S	Sphagnum	
	(II) I william	52 81		
82	(C) Polytrichum	(D) A	Andreaea	-
		e 2		ia
35.	A cup-like structure in which foot	of sporoph	yte is embedded in some mo	sse
	is known as :	880 to 10		
	is known as .	St.	e	
	(A) Pseudopodium	(B) V	Vaginula	
	(C) Operculum	(D) S	Spore sac	
		*		
36.	In which of the following group	of plants.	, leaf performs dual function	n
	photosynthesis and reproduction	?		
	priotosyrronosis			
	(A) Bryophyta	(B)	Pteridophyta	
Ą		E		8
	(C) Gymnosperms	(D)	Angiosperms	1
*				
37.	Nurse cells are found in which	of the foll	owing ?	
×		(D)	Calagraganas	
	(A) Riccia	(B)	Sphaerocarpos	
	(C) Pellia	(D)	Anthoceros	20 EU
	(C) Fellia	(2)		.Т.

	<u> </u>	•	
38.	True elaters are absent in:		
· .			
a 1	(A) Marchantia	(B)	Pellia
144		5 N 2	
	(C) Porella	(D)	Anthoceros
		THE ST ST	
39.	Parallel vertical photosynthetic	lamellae	are present in the leaves of:
# #	(A) Funaria	(B)	Sphagnum
		(13)	Spriagram
	(C) Andreaea	(D)	Delistriisk
	(O) Intereded	(D)	Polytrichum
40	W/L:-L . C. (1 . C.)		
40.	Which of the following taxon pr	roduces n	on-motile gametes?
5 3 3			
	(A) Cladophora	(B)	Ulothrix
		3 B	
N - 46	(C) Spirogyra	(D)	Anabaena
41.	In Fungi reserve food is usually	stored i	n the form of:
No.		* *** *** ***	
	(A) Starch	(B)	Lipid
7 T			
2 2 g	(C) Glycogen	(D)	Protein
		(D)	Totem
42.	In life evals of a function perfect	. Dans and see	C
42.	In life cycle of a fungus, perfect	stage re	iers to:
	(A) Perfectly healthy stage	(B)	Asexually reproducing stage
	(C) Sexually reproducing stage	(D)	None of these
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N.			

43.	The	fruiting body of Aspergillus is o	called	1	e g
n e ^{le}	(A)	Apothecium	(B)-	Perithecium	8
	(C)	Cleistothecium	(D)	Hypanthodium	
44.	Fun	gi producing usually eight spore	es in	a sac-like structure belong	g to:
n n n	(A)	Phycomycetes	(B)	Ascomycetes	
8	(C)	Basidiomycetes	(D)	Deutromycetes	2 Tel
45.	Pow	dery mildew causing pathogen	belon	gs to the order:	
×	(A)	Peranosporales	(B)	Uredinales	× **
, 8	(C)	Erysiphales	(D)	Ustiginales	į .
46.	Gen	etic material of Tobacco mosaic	virus	s is :	20 0 W
25	(A)	Double stranded DNA	(B)	Single stranded DNA	
*	(C)	Double stranded RNA	(D)	Single stranded RNA	20 63 84
47.	Exc	hange of genetic material in ba	acteria	a through conjugation was	proved
n, ***	by	:	# # #		
	(A)	Avery, Mcleod and McCarty	(B)	Robert Koch	200 E
	(C)	Tatum and Leiderberg SOTANY—2018 11	(D)	Khurana	P.T.O.
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48.	Infe	ctive part of virus was first ide	ntified	d by:
	(A)	Stanley	(B)	Ivanowski
	(C)	Baltimore	(D)	Hershey and Chase
49.	Smo	oth endoplasmic reticulum is th	ne site	of:
v				
	(A)	Protein synthesis	(B)	Carbohydrate synthesis
	(C)	Amino acid synthesis	(D)	Lipid synthesis
50.	Whi	ch of the following structures is	. 9660	ciated with the golgi complex?
50.	AA 111	ch of the following structures is	s asso	ciated with the goigi complex.
	(A)	Cristae	(B)	Cisternae
	(C)	Annuli	(D)	Quantasomes
51.	Whi	ch of the following organellse in	n the	cell is semi-autonomous?
, ş.	(A)	Peroxisomes	(B)	Chloroplast
	(C)	Endoplasmic reticulum	(D)	Golgi bodies
52.	The	total of all harmful and lethal	genes	which are present in individuals
	is ca	alled:		
	(A)	Genome	(B)	Gene pool
1,000	(C)	Genetic drift	(D)	Genetic load
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- 53. The term Pseudoalleles is used for genes:
 - (A) With different loci which are very close and producing related phenotypic effect
 - (B) With same loci and control same trait
 - (C) Identical to other genes
 - (D) With different loci and control same trait
 - 54. The phenomenon of Atavism is defined:
 - (A) Inheritance of a trait by mother
 - (B) Inheritance of a trait by father
 - (C) Siblings show common character
 - (D) Inheritance of trait of a distant ancestor not shown by the parents
 - 55. If the percentage of adenine in a DNA sample is 20%, what would be the percentage of other bases?
 - (A) T=30%, G=20%, C=30%
 - (B) T=40%, G=20%, C=20%
 - (C) T=20%, G=30%, C=30%
 - (D) T=20%, G=20%, C=40%

	- market
56. The negative charge of DNA is due to:	2
(A) Sugar, phosphate and amino acids	
(B) Deoxy ribose sugar	
C. H. odonino	20
(C) Nitrogenous bases specifically adenine	
(D) Phosphate group	
57. In DNA molecule, two adjacent nucleotides are separated from each otl	ier
	8. ₂₀
by a distance of:	
(A) 6.8 Angstrom (B) 3.4 Angstrom	S #
(A) 6.8 Angstrom (B) 3.4 Angstrom	
(C) 1.7 Angstrom (D) 10 Angstrom	
(C) 1.7 Aligation	
58. The process of evolution of different species in a given geographical area star	ing
from a point and literally spreading to other areas of geography	
known as:	28
	9
(A) Migration (B) Divergent evolution	
TO A Land and A collection	
(C) Adaptive radiation (D) Natural selection	
htoined from	
59. A resinous product used as a spice is obtained from:	n E
(A) Coriandrum (B) Myristica	
(A) Coriandrum (B) Myristica	
(C) Crocus (D) Ferula	
(C) Crocus	8 8
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60.	Which of the following statements is not correct?
37 80 80	(A) A-DNA is the dehydrated form of DNA
	(B) The naturally occurring DNA is B-DNA and is also called as wet DNA
1 E	(C) Z-DNA is also called zig-zag DNA and is a right handed helix
# # # # # # # # # # # # # # # # # # #	(D) Z-DNA occurs in dehydrated high salt concentration
61.	In DNA, the two strands of double helix are joined by:
2	(A) Hydrogen bonds between sugars
	(B) Phosphodiester bonds between sugars
	(C) Hydrogen bonds between bases
- 100 II	(D) Any other type of bond
62.	Watson and Cricks double helical DNA is a:
* ***	(A) A-DNA (B) B-DNA
	(C) Z-DNA (D) D-DNA
63.	In plant taxonomy, the specimen used by the author for original publication
e i	is called:
((A) Syntype (B) Isotype
	(C) Holotype (D) Lectotype
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64.	Bino	omial system of nomenclature for	r plar	nts is effective from:
	(A)	May 1, 1753	(B)	August 1, 1758
¥	(C)	August 5, 1758	(D)	May 1, 1553
65.	Inflo	prescence in which pedicillate, bi	sexua	l flowers are borne acropetally, is
	kno	wn as :		
	(A)	Head	(B)	Spikelet
	(C)	Raceme	(D)	Spike
66.	The	type of inflorescence found in	maize	and banana is known as :
	(A)	Spadix	(B)	Spike
58	(C)	Catkin	(D)	Corymb
67.	Ver	ticillaster is modification of which	ch ty	pe of inflorescence ?
	(A)	Dichasial cyme	(B)	Corymb
	(C)	Raceme	(D)	Cyathium
68.	In	which type of inflorescence, the ratio	of fer	male to male flowers is 1: infinity?
	(A)	Cyathium	(B)	Catkin
	(C)	Varticillaster	(D)	Hypanthodium
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69.	Whi	ch type of the inflorescence show	ws de	eterminate growth ?
	(A)	Raceme	(B)	Spike
	(C)	Cymose	(D)	Panicle
70.	Whi	ch of the following plants yields dru	g use	d in the treatment of hypertension?
	(A)	Psyllium	(B)	Sarpagandha
30 E	(C)	Ashwagandha	(D)	Licorice
71.	Whi	ch of the following plants is us	ed in	the treatment of diarrhoea and
	cons	tipation?	,	e w 4
	(A)	Aconitum	(B)	Digitalis
	(C)	Plantago	(D)	Adhatoda
72.	Man	aila hemp is obtained from:	627	
9.	(A)	Crotolaria juncea	(B)	Cannabis sativa
	(C)	Musa textilis	(D)	$Hibiscus\ cannabinus$
73.	The	process of gradual and fairly pred	lictab	le change in which one community
	is re	eplaced by another in a given a	rea :	
	(A)	Gross Productivity	(B)	Ecological succession
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74.	The phenomenon of increase in	n concentration of harmful substances at
	successive trophic levels in a ec	osystem is known as:
3	(A) Eutrophication	(B) Biomagnification
	(C) Pollution	(D) Biodegradation
75.	In C4 plants, which one of the	following substances is absent in mesophyll
70	cells ?	
	(A) Rubisco	(B) Phosphoenolpyruvate
	(C) PGA	(D) PEP carboxylase
76.	Which of the following growth	regulators is known to delay senescence?
	(A) Auxin	(B) Ethylene
	(C) Kinetin	(D) Gibberellic acid
77.	The potential of a single isolat	ed cell to develop into complete organism is
	known as:	
	(A) Apomixis	(B) Parthenogenesis
	(C) Totipotency	(D) Anthesis
78.	A piece of DNA which can be	used as a carrier for the genes to be cloned
,	is called:	
	(A) Viroid	(B) Virus
	(C) Vector	(D) Mycoplasma
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79.	Who is considered father of P	lant Tissue	Culture ?	
	(A) White	(B)	Skoog	
	(C) Haberlandt	(D)	Miller	
80.	In Calvin cycle which of the	following co	empounds is regenerated?	
	(A) Glucose	(B)	Phosphoglyceric acid	8
	(C) RuBP	(D)	Erythrose phosphate	
81.	According to 2011 census, the fo	our districts	of H.P. having highest percent	tag
	of Scheduled Caste population	to the tot	al population of the distt. in	th
87 - 48	descending order are:	a a		
	(A) Sirmaur, Mandi, Solan, I	Kullu		
	(B) Sirmaur, Una, Bilaspur,	Kullu		
	(C) Mandi, Chamba, Hamirp	ur, Solan		
	(D) Kinnaur, Kangra, L & S	, Shimla		
82.	Who was first Chief Commission	ıer, when Hi	machal Pradesh came into exist	enc
fian e	on 15th April, 1948 and it wa	as declared	as 'part C' state ?	
*	(A) Dr. Y.S. Parmar	(B)	Sh. Pendralmoon	
1 A	(C) Sh. N.C. Mehta I.C.S.	(D)	Sh. Bhagwan Sahay I.C.S.	
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83.	Which Pass separates Chotta	tta Bhangal from Bara Bhangal?				
	(A) Chobia Pass	(B)	Dulachi Pass	ar ka		
	(C) Kuuzum Pass	(D)	Thanesar Pass			
84.	Which towns of H.P. have be	een brought	under "AMRUT" Schen	me ?		
10 20 20	(A) Shimla and Dharamsha	la (B)	Shimla and Kullu	N N		
	(C) Mandi and Dharamshal	a (D)	Hamirpur and Una	. F .		
85.	When was the state of H.P. o	leclared oper	defecation free (ODF)	by Govt.		
8 I	India?					
(1993) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(A) 28th September, 2016	(B)	15th August, 2017	**		
20	(C) 28th Oct., 2016	(D)	26th Jan., 2017			
86.	On which date and year the	e District of	Solan came into existe	nce?		
	(A) 1st Nov., 1966	(B)	25th Jan., 1971			
	(C) 1st Sept., 1972	(D)	1st Jan., 1972	# - ~ * ,		
87.	Who was first Speaker of H	I.P. Vidhan	Sabha in 1952 onwards	; ?		
	(A) Sh. Desh Raj Mahajan	(B)	Pt. Jaiwant Ram			
3 2	(C) Sh. Sarwan Kumar	(D)	Rana Kultar Chand	e un		
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88.	Who from Himachal Pradesh has not bee	en Union Cabinet Minister ?
	(A) Sh. Shanta Kumar (B)	Sh. Virbhadra Singh
	(C) Prof. Prem Kumar Dhumal (D)	Sh. J.P. Nadda
89.	The first ever Community Development P	roject was launched in Himachal
	Pradesh at:	
	(A) Mandi in Mandi Distt. (B)	Chamba in Chamba Distt.
	(C) Kunihar in Solan Distt. (D)	Ghumarwin in Bilaspur Distt.
90.	Which Distt. of H.P. got first prize in soil	health cards at the country level
	last year ?	
	(A) Hamirpur (B)	Kangra
	(C) Shimla (D)	Mandi
91.	Who is Comptroller and Auditor General	of India (CAG) ?
	(A) Shankar Jai Krishan (B)	Arvind Subramaniyam
	(C) Rajiv Maharishi (D)	Ajit Dhobhal
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92.	River "Shipra" is in which state and which is the main town on its bank?
	(A) Gujarat ; Ahmadabad (B) Madhya Pradesh ; Ujjain
	(C) III Develop I reduced (D) Andhus Duodosh III develop
	(C) Uttar Pradesh; Lucknow (D) Andhra Pradesh: Hyderabad
93.	Who is first Field Marshal of Indian Army?
	(A) General K.S. Thimaya
in 10	
	(B) General G.G. Bewoor
*	(C) General Shankar Roy Chaudhary
17	
= = = = = = = = = = = = = = = = = = =	(D) S.H.F.J. Manekshaw
0.4	What are the evicting rates of tax slab under (CST) ?
94.	What are the existing rates of tax slab under (GST)?
	(A) 5%, 12%, 18%, 28% (B) 5%, 10%, 15%, 25%
	(C) 7%, 14%, 21%, 28% (D) 7%, 10%, 20%, 30%
	(C) 170, 1470, 2170, 2070 (D) 170, 1070, 2070, 3070
95.	Which state of Indian Union is smallest in terms of area?
	(A) Sikkim (B) Goa
	(C) Himachal Pradesh (D) Assam
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96.	Firs	st Asian Games were organised	d wher	e and on which da	ate:
	(A)	Rome (Italy): 1st March, 19	51		8 -9
	(B)	Pakistan (Lahore) : 4th Marc	ch, 195	51	
	(C)	India (New Delhi) : 4th Mar	ch, 198	51	
	(D)	Japan (Tokyo): 1st March, 1	950	20	
97.	The	currency of Pakistan is:			
	(A)	Takka	(B)	Rupee	e e
	(C)	Dollar	(D)	Pound	
98.	Uda	i Shankar is associated with:			a a a me
	(A)	Dancing	(B)	Singing	
	(C)	Politics	(D)	Sports	a 2 ₈
99.	Who	is project advisor for first "Bulle	et Train	n" between Ahmada	bad-Bombay ?
	(A)	Narender Modi	(B)	Vijay Rupani	
	(C)	Vijay Goel	(D)	Sanjay Sinha	
100.	Find	d odd term in the following se	ries :		
25		3, 5, 9,	11, 14,	, 17, 21	el H
1	(A)	3	(B)	14	a a so a
	(C)	21	(D)	11	
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