Mse	flant	Biotechnal	094
		C	(356)

Question	Booklet	No
Ancomon	DOOMICE	110

				- ·		
		(To be fi	illed up by	the candida	te by blue/bl	lack ball-point pen)
Roll No.						
Roll No.	digits in ı	vords)		*,		
Day and I)ate				*************	(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, check the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing. In case of faulty Question Booklet bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided. Only the Answer Sheet will be evaluated.
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and also Roll No. and OMR Sheet No. on the Question Booklet.
- 7. Any change in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. Each question in this Booklet is followed by four alternative answers. For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by ball-point pen as mentioned in the guidelines given on the first page of the Answer Sheet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero mark).
- For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
- 12. Deposit only the OMR Answer Sheet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

[उपर्युक्त निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गए हैं]

[No. of Printed Pages: 20+2





No. of Questions/प्रश्नों की संख्या : 120

Time/समय : 2 Hours/पण्टे

Full Marks/पूर्णीक: 360

Note:

Attempt as many questions as you can. Each question carries 3 marks. One mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. .

अधिकाधिक प्रश्नों को हल करने का प्रवत्न करें। प्रत्येक प्रश्न 3 अंक का है। प्रत्येक गलत उत्तर के लिए एक अंक काटा जाएगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा।

If more than one alternative answers seem to be approximate to the correct answer, choose the closest one.

यदि एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।

1. In diploids number of linkage groups is equal to

(1) 2n

(2) n

(3) 3n

1

(4) 4n

2. To distinguish a double cross-over product, we need at least

(i) two genes on a linkage group

(2) three genes on a linkage group

(3) three genes on two linkage groups (4) four genes on a link



3.	In rice two dominant genes Rc and Rd these are in recessive state, the pericar	are needed for red pericarp if one or both of p is white, this is known as
	(1) inhibitory	(2) supplementary
	(3) duplicate.	(4) complimentary
4.	Relationship between chromosomes rela	ated by dissent in wheat are called
100	(1) homologous chromosomes	(2) homocologus chromosomes
¥	(3) heterologous chromosomes	(4) orthologous chromosomes
5.	A digenic test cross has a ratio of	
	(1) 1:1:1:1 (2) 1:1	(3) 1:1:1 (4) 1
6.	Absence of one whole chromosome from (1) trisomic (3) monosomic	m a diploid is called (2) tetrasomic (4) isochromosome
7.	Which of the following organelles does	not have RNA?
•	(1) Cytoplasm (2) Ribosome	(3) Chromosome (4) Nucleolus
8.	Opening of flowers after pollination ha	as occurred
	(1) chasmogamy	(2) cleistogamy
	(3) Both (1) and (2)	(4) homogamy
(160)		2

9.	Actual point of exchange of genetic material during crossing-over					
is.	(1) chimera	(2) chiasma	(3)	chi-square	(4) stigma	
10.	Chromosomes are	drawn to scale and	i the d	liagram is called	Ĺ	
	(1) ideogram	(2) idiogram	(3)	karyogram	(4) karyotype	
11.	With higher annea	ling temperature as	mplific	ation becomes		
	(1) more specific		(2)	less specific		
	(3) no effect		(4)	average specific	:	
12.	The terminator seq	uence in genes pre	vent s	eed germination		
	(1) in second seas	on ·	(2)	immediate gene	ration	
	(3) after three gen	eration	(4)	kills the seed a	fter harvest	
13.	Independently asso	rted characters				
	(1) have linked ger	nes	(2)	segregate indep	endently	
	(3) partially linked		(4)	linkage is 20 pe	ercent	
14.	Addition or deletion	n of one or two bas	es to	a DNA strand		
¥2	(1) frame shift mu	tation	(2)	chromosome mi	utations	
	(3) insertions	I (• ?	(4)	major mutation	s by additions	
15.	Theory of acquired	character was put	forth	by	22.00	
	(1) De Vries	(2) Morgan	(3)	Lamarck .	(4) Mondal	
(160)			3.	•		



16.	The operon hypothesis was proposed by				
, .	(1) Watson and Cr	(2)	Beadle and Ta	atum	
	(3) Jacob and Mor	nod	(4)	Nirenberg and	Khorana
	*				
17.	Stroma and Grana	are parts of		10	
e.	(1) chloroplast	(2) nucleus	s (3)	mitochondria	(4) lysosomes
18.	In a cell, the main	sites of resp	oiration are		8-
	(1) plastids	(2) riboson		mitochondria	(4) lysosomes
	-1 -0 1 -0 1200-00 800-00		**************************************		
19.	In a cell sites of pr	otein synthe	sis are		
	(1) plastids	(2) mitoche	ondria (3)	ribosomes	(4) lysosomes
20.	Meiosis is also refe	rred to as		65	
	(1) equational divis	sion	(2)	homotypic divi	ision
	(3) reduction divisi	on	(4)	additional divi	sion
01	S	•			
21.	Segregation occurs	auring			
	(1) mitosis	(2) endomi	tosis (3)	meiosis .	(4) prophase
22.	The process of DNA	synthesis f	rom RNA is	called	
	(1) reverse translat	ion	(2)	reverse transci	ription
	(3) transcription		(4)	reverse mutati	on
(160)			4		
(,			4		



		熱
23.	In mitosis, DNA synthesis takes plac	e during
	(1) G ₁ stage (2) S stage	(3) G ₂ stage (4) All of the above
24.	Equal division of cytoplasm during m	nitosis is called
	(1) equational division	(2) karyokinesis
	(3) cytokinesis	(4) horizontal division
25.	A chromosome with several centrome	res is called
31 . 3	(1) acentric (2) dicentric	(3) polycentric (4) monocentric
26.	The movement of chromosomes at an	aphase is associated with
	(1) chromomere	(2) centromere
	(3) telomere	(4) synaptonemal complex
27.	How many different genotypes can exige $g^a > g^b > g^c > g^d$?	ists in a population with dominance hierarchy
	(1) 6 (2) 8	(3) 16 (4) 20
28.	Inversion leads to alternation in	
15 48	(1) composition of genes	(2) sequence of genes
	(3) number of genes	(4) addition of bases
29.	Translocation homozygotes lead to alte	ernation in
	(1) gene number	(2) sequence of genes
	(3) Hakege map	(4) linkage groups
(160)	.5	5
<i>1</i> €		
		All



30.	Monoploids are repr	esented by	•	Tr.		s
	(1) x	(2) 2x	(3)	n	(4)	2n
	Allallaids in refe	erred to as	٠			
31.	Allopolyploidy is refe	erred to as		FG(1)		
,	(1) hybrid polyploid	y		simple polyploi	dy	
	(3) segmental polyp	loidy	(4)	No ploidy		
32.	Laws of inheritance	were discovered by	Men	ndel in 1866 wo	rking	with
	(1) Drosophila	(2) Maize	(3)	Garden pea	(4)	Neurospora
33.	A cross made between called	en two inbreds by re	versi	ng the order of i	nale	and female parent is
21	(1) tests cross		(2)	back cross		
	(3) reciprocal cross	ĭ	(4)	dominant cros	8	
34.	Recent controversy	of a GM crop in In	dia i	8	,	
	(1) BT rice	(2) BT brinjal	(3)	BT cotton	(4)	BT banana
	vr. 11	ted energies among	the	following is		
35.	Highly cross pomni	ated species among	uic	MIN TOTOWING 10		
	(1) Maize	(2) Rice	(3)	Wheat	(4)	Finger millet
36.	A vegetatively prop	agated crop is				
	(1) sugarcane	(2) sweetcane	(3)	saltcane	(4)	bittercane
(160)		. 6	5			



37.	Scientific name of rice is		Ψ.	25		
	(1) Oryza sativa (2) Oryza swativa	(3)	Oryza sitiva	(4)	Oryza	sutiva
38.	Microsatellites are				2	•
: '	(1) always found in bacterial genomes				340	
	(2) always smaller than 50 bp			6.		
	(3) used as DNA markers					
¥.	(4) repeated sequences		X .			
39.	Transposons					
	(1) RNA sequences	(2)	DNA sequences			
	(3) only found in eukaryotes	(4)	contain no gene	.		
40.	Most genes are transcribed into					
	(1) tRNAs	(2)	mRNAs		•	
	(3) ribosomal RNAs	(4)	repeat elements			ă
41.	Transcriptomes				5	
	(1) consist of RNA	(2)	consist of protei	ns		
	(3) translated into proteins	(4)	do not change			
42.	PCR is used for					
	(1) digesting proteins	(2)	digesting DNA	ð.		
	(3) copying plaismids	(4)	amplifying DMA	ţi		
(160)	. 7					



43. Transformation

- (1) converts DNA into RNA
- (2) converts RNA into proteins
- (3) joins two DNA fragments
- (4) digests DNA into fragments

44. DNA polymerases

- (1) join DNA fragments
- (2) replicate RNA.
- (3) replicate DNA
- (4) synthesize DNA in 5' → 3' direction

45. Genome markers

- (1) must be repeat DNA sequences
- (2) can be any unique DNA sequence
- (3) are only used in genetic maps
- (4) must occur as multiple alleles

46. The basic principle of PCR is performed with

(1) help of primers

(2) help of RNA

(3) restriction enzyme

(4) double-stranded DNA

47. GM is

(1) gene modified

(2) genetically modified

(3) gene multiplied

(4) genesis modified

(160)

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48.	Success of Green Revolution is due to	o .	
	(1) development of dwarf varieties	(2) funding from India	
95	(3) use of only fertilizer	(4) use of only pesticides	
49.	Plant DNA fingerprinting can be cost of	effectively carried out by	
	(1) RFLP (2) AFLP	(3) RAPD (4) SNP	
50.	Southern Blotting is performed for the	e transfer of	
	(1) RNA (2) DNA	(3) proteins (4) carbohyd	+
		(o) proteins (4) carbonya	IAICS
51.	Law of purity of gametes is also called	i as	
	(1) law of segregation	(2) dominance law	
	(3) law of independent assortment	(4) law of assortation	
52.	Micro-propagation has direct relationsh	hip with	
	(1) tissue culture (2) vermiculture	(3) silviculture (4) sericultur	e
53.	Two important components in tissue co	ulture	
	(I) chlorophyll and cytoplasm	(2) auxins and gibberellins	
	(3) charcoal and alcohol	(4) acetic acid and ascorbic acid	
54.	Gen gun is concerned with		
	(1) transformation	(2) electrophoration	
	(3) conjugation	(4) callus formation	
	1095 80 pt 6000		

9



55.	Agrobacteria were	isolated in				
	(1) Bacillus	(2) Tumefaciens	(3)	Crown galls	(4)	TI plasmids
56.	Ring spot virus is	predominantly seen	in			
	(1) papaya	(2) pomegranate	(3)	potato	(4)	peanut
57.	Which country rec	ently permitted the	cultiv	ation of BT rice	?	
	(1) Sri Lanka	(2) South Korea	(3)	India -	(4)	China
58.	First food product	of Biotechnology is				
	(1) cheese	(2) orange	(3)	brinjal	(4)	apple
59.	BT brinjal field tri	als in India were fir	st car	ried out by		
	(1) Indian compar	n y	(2)	American comp	oany	
	(3) German comp	any	(4)	Australian com	pany	У
60.	Main architects be	ehind Golden rice ar	e	•		
	(1) Ingo Potrykus	and Peter Beyer				8
	(2) M. S. Swamin	athan and G. S. Ku	sh			
	(3) G. S. Kush at	nd Robert Ziegler				
A W 3	(4) Robert Ziegler	and M. S. Swamine	athan			
61.	Which one of the	following enzyme wa	as iso	lated from bacte	ria?	
	(1) Taq polymeras	se .	(2)	dNTP polymers	180	
	(3) Exon polymer	asc	. (4)	Taq isomerase		
(160)		.1	0	ŀ		
	45					



62.	The nucleotide sequence present in DNA sequence is
	(1) ATPG (2) ATGC (3) AGCU (4) AUTC
63.	Which of the following pairs of sequences contain a Single Nucleotide Polymorphism (SNP)?
	(1) AAGGCTAA and AAGGCTAA (2) AAGGCTAA and AAGGCTGG
	(3) AAGGCTAA and ATGGCTAA (4) GGGGGGGG and TTTTTTTT
64.	Standard gel electrophoresis of DNA separates DNA fragments based upon
ě	(1) charge differences
	(2) sequence differences at one nucleotide
	(3) size differences
	(4) type of DNA
65.	Agarose is a
*	(1) polysaccharide (2) polydeccaharide
	(3) polyacyrlamide (4) polyamide
66.	AIDS virus can be detected by
ži.	(1) FCR (2) PCCR (3) PCR (4) TCR
67.	Callus is an undifferentiated mass of
82	(1) bacterial cell (2) fungal cell (3) algal cell (4) plant cell
(160)	11



68.	The segment of gene that codes for protein is				
	(1) intron (2) exon	(3) exen (4) nion			
		ia de la companya de			
69.	LCR refers to	•			
	(1) Locus Control Region	(2) Locus Control Receptor			
	(3) Locus Control Regulator	(4) Locus Control Reactor			
70.	Plant protein that specifically bind carb	ohydrates is			
	(1) peptin (2) lectin	(3) lactin (4) mysocine			
71.	MAS in plant breeding refers to				
	(1) Marker Associated Selection	(2) Marker Assisted Selection			
	(1) Marker Associated Selection	(2) Marker Addisted Celection			
¥	(3) Marker Free Selection	(4) Marker Added Selection			
72.	Protein that oversees the correct bindin	g of other proteins is			
	(1) molecular neutrons	(2) molecular cutters			
	(3) molecular chaperone	(4) molecular scissors			
73.	Running several PCR reactions with diff	ferent primers in the same tube is			
	(1) multiplex PCR (2) RT-PCR	(3) long PCR (4) reverse PCR			
74.	An enzyme that uses single-stranded RN DNA is called	NA as a template for making double-stranded			
	(1) reverse transcriptase	(2) reverse transase			
	(3) reverse phoenhotons	180			
	(3) reverse phosphatase	(4) reverse criptase			
(160)	12				



75.	A vector that can survive in and be moved between more than one types of host cell is			is					
	(1)	T-tailed vector	(2)	shuttle vector	. (3)	moving vector	(4)	labelled vector	
76.		area of Microbi pulation is	ology	that is concern	ned v	vith the occurre	nce o	of disease in hu	nan
	(1)	Immunology	ād.	*	(2)	Parasitology			
2.49	(3)	Epidemiology		-5 ss	(4)	Bioremediation .		·	
77.	Wh	ich process inve	olves	the deliberate	alters	tion of an organ	uism'	s genetic materi	al?
	(1)	Bioremediation			(2)	Biotechnology		**	
	(3)	Decomposition		•	(4)	Recombinant D	NA	•	
47 6. 4		ich is the correcteral?	t orde	er of the taxonor	nic ce	etegories, going fi	om 1	most specific to n	nost
	(1)	Domain, kingd	om, j	phylum, class, c	order	, family, genus,	spec	ies	
×	(2)	Division, doma	in, k	ingdom, class, i	famil	y, genus, specie	3	*-	
252	(3)	Species, genus	, fam	ily, order, class	, phy	lum, kingdom,	dom	ain	
•	(4)	Species, family	, clas	ss, order, phylu	m, k	ingdom			
79.	Far	nily of proteins	invol	ved in second r	nesse	enger cascades		4	
	(1)	G protein	(2)	P protein	(3)	M protein	(4)	T protein	
80.	DN	A sequence, four	nd wi	ithin genes that nesis) in animal	are ls, fu	involved in the	reary	ation of nettern	a of
	(1)	Homeobox	(2)	Heterobox	(3)	Homeber,	10)	Halaber	
160)		TV		13	1			(P.1	r.O.)



81.	DNA methylation involves the
	(1) deletion of methyl group (2) addition of methyl group
	(3) neither deletion nor addition (4) addition of ethyl group
82.	RI technology refers to
	(1) RNA interfectance (2) RNA interchange
	(3) RNA interference (4) RNA interleucence
83.	Small infectious nucleic acid that does not have a protein coat is
1.00	(1) celluloid (2) viroid (3) vivid (4) mucoid
84.	Enzyme that changes the topology of DNA by nicking and resealing one strand of DNA is
	(1) Topoisamerase II (2) Topoisamerase II
	(3) Topoisamerase III (4) Topoisamerase IV
85.	Movement of a transposon to a new site in the genome is called
	(1) transposition (2) transduction (3) transcription (4) translation
86.	Receptor that moves small molecules across the plasma membrane is called
	(1) transfactor (2) transporter (3) transvector (4) translator
87.	Complex responsible transporting proteins from the intermembrane space into the interior of the organelle is
	(1) TIM complex (2) TIC complex (3) TAM complex (4) TRI complex
(160)	14



88.	Which episome of the bacterium Agrobacterium tumefaciens that carries the genes responsible for the induction of crown gall disease in infected plants?					
	(1) Golgi complex (2) Ti plasmid	(3)	Ri plasmid (4) Pi plasmid			
89.	Subunit of transcription factor TFtID that binds to DNA					
	(1) Tata folding protein	(2)	Tata releasing protein			
	(3) Tata binding protein	(4)	Tata unwinding protein			
90.	Relationship between chromosomal reg genes occur in the same order is called	ions	of different species where homologous			
ş	(1) Monoctofny (2) Synteny	(3)	Parasynteny (4) Synonym			
91.	Which DNA describes sequences that organism?	do	not contribute to the genotype of the			
335	(1) Replicating DNA	(2)	Genomic DNA			
0.00	(3) Amplified DNA	(4)	Selfish DNA			
92.	RTK is an abbreviation for					
	(1) Receptor Tyrosine Kinase	(2)	Receptor Trypsin Kinase			
*	(3) Receptor Tyrosine Kinatase	(4)	Receptor Trypsin Kenetic			
93.	Enzyme that functions in tRNA splicing	is	•			
	(1) RNA ligase	(2)	RNA galactase			
1. * .)	(3) RNA lactase	(4)	RNA lucase			
[160]	15					



				21/45		
94.	RNA virus with the a	ability to convert its	sequ	ence into DNA	by rev	erse transcription is
	(1) tobacco mosaic	virus	(2)	retrovirus	4	
	(3) ring spot virus	•	(4)	provirus		
95.	Short stretches of	1000–2000 bases p	roduc	ed during disc	ontinu	ous replication of
	(1) exons		(2)	transposons		
	(3) introns		(4)	Okazaki fragr	nents	
96.	Which enzyme is re	esponsible for a site	e-spec	ific recombina	tion?	
	(1) Integrase	(2) Intergrase	(3)	Innase	(4)	Invertase
97.	A genetic unit that is closely related to		acid	sequence of a	comple	te polypeptide chair
8	(1) an anticodon	(2) a promoter	(3)	a gene	(4)	a codon
98.	Given the antisens corresponding mRN		n 3'1	MC 5' the ant	icodon	that pairs with th
•	(1) 3' C 5'	(2) 5' TAC 3'	(3)	3' UAC 5'	(4)	5' TAC 3'
99.	Which of the follow	ring is not a chara	cteris	tic of cellular I	RNA ?	
	(1) Contains uraci	ı '				*
	(2) Is single strane	ded		¥		
	(3) Is much shorte	er than DNA				
	(4) Serves as temp	olate for its own sy	nthes	is		<i>8</i> .
160)		. 1	16			3.



100.	A mutation in the	codon UCG to UA	G is be described as	is a			
	(1) missence mut	ation	(2) neutral muta	tion			
•	(3) nonsense mut	ation	(4) frame shift m	utation			
101.	An amino acid the	at cannot participat	e in alpha helical for	rmation is			
	(1) proline	(2) histidine	(3) phenylalanine	(4) threonine			
102.	A coding system in letters is said to l		nay be coded by a vari	ety of symbols or groups of			
	(1) archaic	(2) redundant	(3) degenerate	(4) polysyllabic			
103.	1700 KEN	nthetase is responsi	ible for	•			
	(1) formation of peptide bond (2) attaching an amino group to an organic group						
			7.5 10000	to P site on a ribosome			
	(4) joining an am	ino acid to a tRNA					
104.	The step in the flow	w of genetic informat	tion where in DNA is c	opied into mRNA is called			
	(1) translation		(2) transformation	n			
•	(3) replication		(4) transcription				
105.	The growing polypribosome?	eptide chain is first	attached to a tRNA m	olecule in which site of the			
	(3) A site	(2) B site	(3) P site	(4) Autivo site			
(160)			17 .				



106.	First protein seque	nced is	19		
780	(1) inuline	(2) insulin	(3)	imminogĺobin	(4) albumin
107.	First enzyme extrac	ted in crystalline	from		
	(1) invertase	(2) maltase	(3)	urcasc	(4) amylase
108.	Central dogma of n	nolecular genetics	was pr	reposed by	19 1 10
36.768	(1) Watson	(2) Crick	(3)	Morgan	(4) Pasteur
109.	The K_m value of er	ızyme is	•		
	(1) enzyme concen	N65.6	(2)	substrate conce	entration
	(3) rate of reaction		(4)	activation time	•
				estantene e grand notationale assertion and enterene estant	
110.	Human chromosom	e number was fi	st giver	ı by	
	(1) Mcclung	27	(2)	Brener and Ho	rne
	(3) TJio and Levan		(4)	Crick	
111.	DNA in bacteria is	a			
	(1) circular Ds DN.		(2)	circular Ss DN	4
	(3) linear Ds DNA	• • •	1022	linear Ss DNA	
	(,	•	χ.,	ancar os Divi	•
112.	The genetic materia	l of Prions is			
	(1) RNA	(2) DNA	(3)	lipids	(4) proteins
(160)			18	•	



113.	Two poly nucleotide chains of DNA are linked by					
	(1) hydrogen bond	(2)	phosphodiester bond			
×	(3) peptide bond	(4)	glycoside bond			
114.	Genes for rRNA synthesis is present in					
,	(1) nucleolus (2) telomere	(3)	centromere (4) pellicle			
115.	Non-epistatic interaction was given by		14 <u>0</u> 13			
•	(1) Morgan	(2)	Sturtevent			
	(3) Boteson and Punnet	(4)	Sutton and Boveri			
116.	Linkage can be detected by	•				
	(1) only test cross	(2)	only F ₂ data			
	(3) Both test cross and F ₂ data	(4)	reciprocal cross			
117.	Which of the following is not characteristic	ic of	most mRNA processing in eukaryotes?			
	(1) Addition of a poly A tail at 3' end	ř				
	(2) Addition of an unusual guanine to	the	5' end			
	(3) Removal of leader and trailer sequences					
	(4) Deletion intons					
118.	Transduction was given by					
	(1) Beadle and Tatum	(2)	Zinder and Lederberg			
3 4 2	(3) Lodosberg and Tatum	(4)	Avery-Macland and Macarty			



- 119. 1% recombination frequency is equal to
 - (1) 1 map unit (2) 10 map units (3) 0.5 map unit (4) 100 map units
- 120. The size of mutan in Benzer fine structure of gene is
 - (1) 1 bp
- (2) 10 bp
- (3) 100 bp (4) 1000 bp



D/4(160)-1200





अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण-पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली या काली बाल-प्याइंट पेन से ही लिखें)

- ग्री पुस्तिका मिलने के 10 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न खूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
- उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा, केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
- 4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
- 5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाड़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर ठचित स्थानों पर लिखें।
- 6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक सं० और ओ० एम० आर० पत्र सं० की प्रविष्टियों में उपरिलेखन की अनुमित नहीं है।
- 7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
- 8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाढ़ा करना है।
- 9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
- 11. रफ़ कार्य के लिये प्रश्न-पुस्तिका के मुखपृष्ठ के अन्दर वाले पृष्ठ तथा अंतिम पृष्ठ का प्रयोग करें।
- परीक्षा के उपरान्त केवल ओ०एम०आर० उत्तर-पत्र परीक्षा भवन में जमा कर दें।
- 13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
- 14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।

