

SET-2
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LUCKNOW REGION
MARKING SCHEME
CLASS XII
BIOLOGY (044)

Ans. No.	ANSWER	MARKS
SECTION A		
1	c	1
2	c	1
3	b	1
4	d	1
5	d	1
6	a	1
7	b	1
8	c	1
9	c	1
10	c	1
11	a	1
12	d	1
13	b	1
14	b	1
15	c	1
16	a	1
SECTION B		
17	The UTRs are present at both 5'-end (before start codon) and at 3'-end (after stop codon). They are required for efficient translation process.	1+1=2
18	Yes, provides nutrition, provides immunity, provides antibodies, Ig A, contraception (lactational amenorrhea) ANY FOUR ANSWERS.	$\frac{1}{2} \times 4=2$
19	<i>Bacillus thuringiensis</i> , inactive protoxins, alkaline pH and region of gene which coded the toxin protein.	$\frac{1}{2} \times 4=2$
20	-Avoiding stagnation of water,	$\frac{1}{2} \times 4=2$

	- use of mosquito nets, -spraying of insecticides in ditches, drainage and swamps, - introducing the larvicidal fishes like Gambusia . OR ANY FOUR ANSWERS.	
21	-The main point is haploid male and diploid female. -Method of sex determination -NCERT Page 87	2
SECTION C		
22	NCERT Page 31, any three outbreeding devices. OR Definition, Names any two STIs and Preventive measures. NCERT Page 63	1x3=3 $\frac{1}{2}+1+1\frac{1}{2}=3$
23	-The three regions of DNA i. A promoter ii. The structural genes iii. A terminator -DNA-dependent RNA polymerase -Template strand -Coding strand -Description	3
24	a. Immunosuppressive agent b. Lowering the blood cholesterol c. Lipases OR -This is ascribed to the fact that our body appears to have memory of the first encounter. -B-lymphocytes and T-lymphocytes -Cell-mediated immune response	1x3=3 1x3=3
25	NCERT Page 127-28 (Diagram is not required)	3
26	Role of Estrogen and Progesterone during the menstrual cycle in detail.	$1\frac{1}{2}+1\frac{1}{2}=3$
27	NCERT Page 202-03	2+1=3
28	a. Sugar and Phosphate	$\frac{1}{2}\times 6=3$

