

MARKING SCHEME (2023-24)**Class XII****Biology (Subject Code-044)**

Q. No.	Answer	Marks
Section - A		
1	d) black pepper	1
2	d) tapetum	1
3	d) 7	1
4	a) males and females, respectively	1
5	a) 0.32	1
6	a) random and directionless	1
7	d) Nucleotide	1
8	d) aa	1
9	c) Cyclosporin A produced from <i>Trichoderma polysporum</i>	1
10	d)	1
11	b) Reduce pesticide accumulation in food chain	1
12	d) Soil Sample C	1
13	d) A is false but R is true	1
14	c) A is true but R is false	1
15	a) Both A and R are true and R is the correct explanation of A.	1
16	a) Both A and R are true and R is the correct explanation of A.	1
Section – B		
17	<p>Spermatogenesis starts at the age of puberty due to significant increase in the secretion of gonadotropin releasing hormone (GnRH). This is a hypothalamic hormone. [0.5]</p> <p>The increased levels of GnRH then act at the anterior pituitary gland and stimulate secretion of two gonadotropins – luteinising hormone (LH) and follicle stimulating hormone (FSH). [0.5]</p> <p>LH acts at the Leydig cells and stimulates synthesis and secretion of androgens. Androgens, in turn, stimulate the process of spermatogenesis. [0.5]</p> <p>FSH acts on the Sertoli cells and stimulates secretion of some factors which help in the process of spermiogenesis. [0.5]</p>	2
18	<p>a) CTT would become CAT which codes for valine. Thus, valine would replace glutamic acid at that point. [0.5]</p> <p>b) Sickle cell anaemia [0.5], the mutant haemoglobin molecule undergoes polymerization [0.5] leading to the change in the shape of the RBC from biconcave disc to elongated sickle like structure. [0.5]</p>	2

Marking Scheme 2014 Biology Paper 61

H Kauffman



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