KENDRIYA VIDYALAYA SITAPUR (FIRST SHIFT)

(JULY -2023) **UNIT TEST- I**

	CLASS-XII	SUBJEC -BIOLOGY	MM-40	TIME-90 MINUTES						
I	Note:- This question paper consists of four sections . Section –A (MCQs) of one mark each. SECTION –B (CASE BASED AND SOURCE BASED QUESTIONS) of one marks each. SECTION –C (ASSERTION & REASON BASED QUESTIONS) of one marks each.									
	SECTION-D (VERY S	HORT /SHORT AND LONG A	ANSWER QUEST	ONS) of1, 2,3 and 5 marks each.						
	SECTION –A (MCQs)									
1)	Embryo sac is a:	02011011 71	(111000)							
21	_) Female gamete c) Male g		female gametophyte						
۷)	a. To provide energ	as many mitochondria why? gy b) To increase longe		fertilization d) none of these						
3)	Transfer of an ovum colle	cted from a donor into the								
4)	a) ZIFT b) GIFT	•	other having w	hite flower. He observed that all p	nlante					
7)	-	ere with pink flower. Give a	_		nants					
	a) Law of dominand	•								
5)		nance d) None of these		by environmental stress and cher	mical					
٥,	because its exine which	_	t being uncered	by environmental stress and ener	mear,					
6 \		ropollenin c) Strong epid	•	lone of these						
6)		t takes place in which layer Endometrium c) Myomet		of these						
7)	A hormone realizing IUD	•		. 6						
	a) Multiload 375	b) Cu 7 c) CuT	d) LNG 20							
8.	Which of the following co	osses will give tall and dwa	rf pea plants in	the same proportions:						
	_) TTxTt d) tt xtt								
9	Some species of Asteracea	e and grasses have evolved	snecial mechan	ism to produce seed without						
٥.	fertilization is called:	e ana grasses have everted	opecial incondi	isiii to produce seed without						
10	a)Polyembryony b) apo	• • • • •	· · · · · · · · · · · · · · · · · · ·							
10.	of this hormone.	important normone which	is necessary to	maintain pregnancy. What is the i	name					
	a)Estrogen b) FSH	c) Progesterone d) no	ne of these							
	SECTION _R (CASE BASED AND S	SOURCE RA	SED OHESTIONS)						
1	•	cubes), uterus and vagina		•						
-	fallopian tube is about	10-12 cm long and extend	ds from the per	phery of each ovary to the uteru						

- the part closer to the ovary is the funnel-shaped infundibulum. The edges of the infundibulum possess finger-like projections called fimbriae, which help in collection of the ovum after ovulation.
 - Which part of the of the ovary helps in the collection of ovum after ovulation?
 - a) Fallopian tube B) Uterus c) Fimbriae d) None of these ii) Which technique is a part of ART (Assisted Reproductive technique?
 - a) Test tube baby b) IUT C) ZIFT D) all of the above

- 12. Diseases or infections which are transmitted through sexual intercourse are collectively called sexually transmitted diseases (STD) or venereal diseases (VD) or reproductive tract infections (RTI). Gonorrhoea, syphilis, genital herpes, chlamydiasis, genital warts, trichomoniasis, hepatitis-B and of course, the most discussed infection in the recent years, HIV leading to AIDS are some of the common STDs. Among these, HIV infection is most dangerous.
 - ii. Which of the above STD weakens our immunity system?
 - a) Gonorrhoea
 - b) Syphilis
 - c) Hepatitis –B
 - d) AIDs

SECTION -C (ASSERTION & REASON BASED QUESTIONS)

- 13. **Assertion**:-Endosperm is triploid in nature and provides nutrition to the developing embryo. **Reason:**-endosperm is formed by the fusion of one male gamete and secondary nucleus (2n).
 - a. Both assertion and reason are true, and the reason is the correct explanation of the assertion.
 - b. Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
 - c. Assertion is true but reason is false.
 - d. Both assertion and reason are false
- 14) **Assertion**:- All the haploid gametes produced by female have the sex chromosome X. **Reason**:-sex of the human baby is decided by male individual only, because all male gametes have Y chromosomes only.
 - a. Both assertion and reason are true, and the reason is the correct explanation of the assertion.
 - b. Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
 - c. Assertion is true but reason is false.
 - d. Both assertion and reason are false

SECTION-D (VERY SHORT /SHORT AND LONG ANSWER QUESTIONS)

15) Name the innermost layer of microsporangium? What is its function?					
16) How many cells and nuclei are there in embryo sac?					
17) Expand ICSI and ZIFT.	1				
18) Family planning programme was initiated in India in which year?	1				
19) What is the term given for sterilization in human female?	1				
20) Define emasculation.	1				
21) What do mean by mutagen?	1				
22) Draw the diagram of a pollen and label any two parts correctly.	2				
23) What is incomplete dominance? Explain it by taking an example of a plant in which it occurs?	2				
24) Suggest any four ways to be safe from STDs.	2				
25) Name any three outbreeding device. What is its significance?	2				
26) What do you mean by heterogamety? Explain the sex determination in human.	3				
27) (a) Draw a well labeled diagram of human sperm and write the function of acrosome.	3				
28) (a)Draw the diagrams to show the development of female gametophyte in angiosperms.	3				
(b) What is placenta? How does it form? Name any two hormones secreted by it	2				