## DAV PUBLIC SCHOOL, SAMASTIPUR



1st Periodic Test: 2024-25

Class: XII

Time: 1 Hour. <u>Biology</u> Full Marks: 20

Answer the follows Section - A.	ing questions:		1X5= <u>5</u>
1. How many Polle	n mother cells shoul	d undergo meiotic di	ivision to produce 48 pollen grains?
(A) 8.	(B) 12	(C) 16	(D) 24
2. During human e	mbryonic developmo	ent, the heart in the e	embryo is formed after
(A) 15 days of pregnancy		(B) 30 days of pregnancy	
(C) 45 days of pregnancy		(D) 60 days of pregnancy	
3. The probability of	of all possible genoty	pes of offspring in a	genetic cross can be obtained with the
help of			
(A) Test cross	(B) Back cross	(C) Punnett square	(D) Linkage cross
4. Chorionic villi ar	nd uterine tissue beco	ome interdigitated w	ith each other and jointly form
(A) trophoblast	(B) inner cell mass	(C)Placenta	(D) implantation
5. Which of the foll	owing is hormone re	leasing IUD?	
(A) LNG-20	(B) Multiload-375	(C) Lippes loop	(D) Cu-7
Section - B			2X2 =4
6. Mention the adv	antages of selecting p	oea plant for experim	nent by Mendel.
7. What is meant by	y emasculation? Whe	en and why does a pl	ant breeder employ this technique?
Section -C			3X2= <u>6</u>
8. Write the steps in	n the formation of an	ovum from an oogo:	nium in human.
9. Why is Pedigre	e analysis done in l	human? List two re	asons why the Mendelian experiments
cannot be carried o	ut in human beings.		
Section -D			5X1=5
10. (i) Explain the	formation of placenta	a after the implantati	on in a human female.
(ii) Draw a diag	ram showing humar	n foetus within the ut	terus and label any four parts in it.
		or	
Describe the dihyb	orid cross upto F2- ge	eneration as conducte	ed by Gregor Mendel using pure

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lines of garden pea for characters; seed shape and seed colour.