

# Chapter End Test

Date :		Biology							BATCH
Duration: 45 Min. Max. Marks : 26		<b>Topic :</b> Human Reproduction							ХІІ
bee fori cor nee	<b>Disclaimer:</b> This Chapter End Test is to be conducted after the chapter has been taught in a Studymate class. It has been designed to check whether a student has understood all concepts taught in class and memorised them, so the format of the paper and its questions may not reflect the same standard that appears in the actual board exam. It contains some easier questions that have a lesser chance of appearing on the board exam, but they form the foundation needed to answer difficult questions while one of its questions has appeared in NEET (UG) exam, as well. This test provides an early mid-course correction with an easier to medium difficulty level. on purpose.								
<b>Ge</b> 1. 2. 3. 4. 5. 5.	<ol> <li>Section A consists of 15 multiple choice questions.</li> <li>The answer of MCQs has to done in separate OMR sheet.</li> <li>Subjective section has 4 questions of 1, 2, 3 and 5 marks each.</li> <li>Subjective questions have to be answered separately in answer sheets.</li> </ol>								
1.	The function (a) Child b			to h <mark>elp</mark> in Growth		(c)	Lactation	(d) _ C	ametogenesis
2.	Stem cells an (a) Granul		in of folli	cle		(b) (d)	Trophoblast of Inner cell mass	blastocyst	
3.	The layer of				sperm			s of blasto	yst
4.	<ul><li>(a) Corona</li><li>LH surge occ</li><li>(a) Menstr</li><li>(b) At the 1</li></ul>	radiata curs durin ual phase beginning	(b) H g whic of pro	Perivitelline s	pace he Me ase	(c) enstr	Germ layers	(d) Z	ona Pellucida
		middle of t		-	are pi				
5.	Blastocyst of	human is	s differ	rent from Mo	rula i	n th	2		
		ce of germ	-			(b)	Presence of mo	re yolk	
_	( )	ce of Amni				• •	Presence of cav	vity	
6.	The organ th	at develop	os afte (b) I		onth 1			(d) L	leart
7.	(a) Lungs The part of t	he Falloni	` '		the ov	(c) varv <sup>i</sup>	Kidney	(d) H	lean
	(a) Ampull	-		sthmus		•	Infundibulum	(d) C	Cervix
8.	The number		` '		amete	• •			
	(a) During	formation	of fir	st polar body	7				
		mitosis in	-			- <b>4</b> 77			
0			-	pocyte and se	econda	ary s	permatocyte		
9.	Progestrone (a) Follicui			ng Menstrual ph	lase	(c)	Ovulatory phas	se (d) S	ecretory phase
	(, 1000	- F-1000	()	see and pr		(2)	price		Jerrando

#### STUDY mate

5101	) i ma	te							
10.	Sigr	hals for parturition	n orig	inates from					
	(a)	Ovary	(b)	Uterine muscles	(c)	Foetus	(d)	Umbilical cord	
11.	Sertoli cells present between the germ cells in the testis can also be called as							as	
	(a)	Reproductive ce	lls		(b)	Secretory cells			
	(c)	Nurse cells			(d)	Future spermate	ocytes		
12.	Mor	ulla consists of _		blastomeres					
	(a)	16–32	(b)	8–16	(c)	32–48	(d)	36–48	
13.	The	reproductive even	nts in	humans include					
	(i)	Gestation	(ii)	Fertilization	(iii)	Gametogenesis	(iv)	Insemination	
	(v)	Implantation	(vi)	Parturition					
	Cho	ose the correct se	quen	ce of events					
	(a)	i, ii, iii, iv, v, vi	(b)	vi, v, iv, iii, ii, i	(c)	iv, iii, ii, i, v,vi	(d)	iii, iv, ii, v. i, vi	
14.	•. Chorion in human being is responsible for the formation of								
	(a)	Umbilical cord			(b)	Amniotic fluid			
	(c)	Organs in the fo	oetus		(d)	Placenta			
15.	Whi	hich one of the following is initiated by secretions of trophoblast?							
	(a)	Cleavage	(b)	Gastrulation	(c)	Polyspermy	(d)	Implantation	
				SEC.	rion 1	В			
1.	Exp	lain th <mark>e role of t</mark> h	e inne	er an <mark>d m</mark> iddle wall	s of th	<mark>le human's u</mark> terus	s.		[1]
2.	Where are fimbriae present in human female reproductive system? Give their function. [2]						[2]		
3.	(a)	Differentiate be	tween	gametogenesis in	huma	an male <mark>s an</mark> d fema	ales or	the basis of	
		(i) time of initia	ation	of the process.				THE	
		(ii) products for	med	at the end of the p	roces	8			
	(b)	-		and by the term s					[2+1]
4.	(a)	(a) How is the sperm able to penetrate the secondary oocyte?							
	(b)	Where exactly in	n the	Fallopian tube do	es this	occur?			
	(c)	What happens	ftor t	he sperm pepetro	too the	secondary occut	2	h	

(c) What happens after the sperm penetrates the secondary oocyte?
(d) Explain the events after fertilization upto morula stage. [1+1+1+2]

\*\*\*\*



## Hints/Solutions to Chapter End Test

Date : Duration: 45 Min.	Biology	BATCH	
Max. Marks : 26	<b>Topic</b> : Human Reproduction	XII	
	Section – A		
<b>1.</b> (c) Lactation	<b>2.</b> (d) Inner cell mass of blastocyst		

(d)

(d)

Heart

At the middle of the cycle

4.

6.

- Lactation 1. (c)
- З. (d) Zona Pellucida
- 5. (d) Presence of cavity
- 7. Infundibulum (c)
- 8. (d) Division of secondary oocyte and secondary spermatocyte
- 9. (d) Secretory phase 10. (c) Foetus
- 11. (c) Nurse cells 12. (b) 8-16 14. (d) Placenta
- 13. (d) iii, iv, ii, v. i, vi
- (d) Implantation 15.

### Section - B

- 1. The inner layer endometrium undergoes cyclical changes during menstrual cycle while the middle layers myometrium exhibits strong contraction during delivery of the baby.
- 2. The edges of the infundibulum possess finger-like projections called fimbriae, which help in collection of the ovum after ovulation.
- З. Gametogenesis in human males is initiated at puberty and in females it is initiated in (a) (i) the embryonic stage.
  - Products formed at the end of gametogenesis in male is spermatozoa and products (ii) formed at the end of gametogenesis in female are haploid ovum and second polar body.
  - (b) The release of the spermatozoa from the seminiferous tubules is by the process called spermiation.
- 4. The acrosome of the sperm is filled with enzymes that help the sperm to penetrate the (a) secondary oocyte.
  - (b) Ampullary Isthamus junction
  - (c)Penetration of sperm induces the completion of the meiotic division of the secondary oocyte. The second meiotic division is also unequal and results in the formation of a second polar body and a haploid ovum.
  - (d) The haploid nucleus of the sperms and that of the ovum fuse together to form a diploid zygote The mitotic division starts as the zygote moves through the isthmus of the oviduct called cleavage towards the uterus and forms 2, 4, 8, 16 daughter cells called blastomere. The embryo with 8 to 16 blastomeres is called a morula.

### \*\*\*\*