

* Submitted By :: ZAID ulah

* Submitted TO :: Dr. Shahzeb /un

* Assignment :: physiology (lab)

* ID :- 10822

(1)
Q:1:→ physiology of male.

Reproductive System:

* it consist of 2 part

i) external genitalia.

ii) internal genitalia.

i) External genitalia:
(Can be see on Body Surface).

→ penis.

→ Scrotum.

ii) Internal genitalia:
(Can't be see on Body Surface)

→ Sperm production organ.

→ Testes.

→ epididymis.

→ vas deferens.

→ urethra.

→ exocrine gland.

→ Seminal vesicle.

→ prostate gland.

→ Bulbo-urethral.

i) * penis :->

Consist of :-> External :->

- Shaft
- glans penis
- prepuce (foreskin)

• Internal :->

• Urethra :-

Transport of Semen & urine.

→ Cylindrical Body.

∴ Corpora cavernosa:-

Responsible for excretion.

∴ Corpora^{US} Spongiosa:-

Sustain form urethra &

prevent the collapse of urethra during excretion.

2) * Scrotum:-

→ Sac of skin that hangs out side the abdominal cavity which hold the testes.

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→ Keep the testis Temp

34°C - Required for Sperm

production.

3) * Testes :->

Responsible for :-

male sex steroid hormone

Testosterone.

① Sperm.

4) * Epididymis :->

A mass of coiled tube
on the surface of each

Testis that has Sperm mass

through p_{ro}cess to ejaculation.

•) The sperm become

mature They pass through

a tube toward vas deferens.

•) Can be store of

sperm for several month.

5) * Vas deferens :->

This is a thin tube

that start from epididymis

to the urethra in the penis.

•) Conveys sperm during

sexual arousal.

8) * Accessory gland \Rightarrow

Secrete most liquid portion of semen.

a) Seminal vesicle \Rightarrow

① Sal like structure.

② Attached to vas deference

③ They produce sticky yellowish fluid. Contain fructose.

B) Prostate gland \Rightarrow

① Surround the ejaculatory duct.

② Responsible for mixture of semen & sperm cell

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c) ~~*~~ Bulbourethral Glands →

1) They are 2 Small

gland -

2) located on the side of

urethra Below the prostate gland.

3) They produce clear, slippery

fluid empties directly into:

the urethra.

Q. 1. B.

* Spermatogenesis \Rightarrow

The process in which

haploid Spermatozoa develop

from germ cell in the

Seminiferous tubule of the

Teste.

 \rightarrow The process starts from

mitotic division.

* Reproductive Gland \Rightarrow \Rightarrow Seminal vesicles \Rightarrow

1) Sac like structure.

2) produce thick yellowish fluid.

(a)

⇒ prostate Gland :->

→ production of Semen

→ liquid mixture of Sperm.

⇒ Bulbourethral Gland :->

They produce clear

slippery fluid.

* hormones & their

Regulation :->

→ it controlled by gonadotropin

Follicle - Stimulating hormone (FSH)

and luteinizing hormone (LH).

→ which produce (pituitary gland)

O:-2:-A:->

Physiology of Femal Reproductive System:->

1) Internal Femal Structure

- 1) ovaries
- (2) fallopian tube
- (3) uterus
- (4) vagina

(1) ovaries:->

• Solid Structure • 1.5 cm thick
2.5 cm width
weight = 4-8 gm

• located each side of
uterus. ~~is~~ below the
fallopian tube.

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↳ attached to ligament by ovarian ligament.

⇒ Function:-

→ Secrete estrogen & progesterone.

→ production of (ova)

(a) Fallopian tube :->

↳ Two tube extend from

the corner of the uterus

& the ovary.

length :-> 8 to 14 cm.

→ divided into 3 part

* Function :-> pick ovum, transport sperm & ovum.

→ transport of fertilized & unfertilized ovum to the uterus.

(a) infundibulum \Rightarrow

\rightarrow Funnel Shape.

\rightarrow Finger like projection.

\rightarrow Caten egg when release

form ovary.

(B) Fimbriae \Rightarrow

•) wider part 5cm length.

•) made specialized cilia.

•) help ova moving.

(C) Isthmus \Rightarrow

•) Neck like tube
open to the uterus.

•) Cold Uterus 2-3 cm.

•) Fusion of male & female gametes.

(3)* uterus :->

•) hollow, pear shape.

•) measure about 7x5x2.5 cm

•) weight :- 50-60 gm.

•) it is divided into 3 part

(a) Fundus :-

•) upper part.

•) Above the Fallopian tube

enters the uterus.

•) length 5 cm.

(B) Isthmus ⇒

-) narrow transition zone.
-) B/w fund & cervix

(C) Cervix ⇒

-) lower most position of uterus

•) length \approx 3 cm.

→

* Cover of uterus ⇒

i) perimetrium

ii) myometrium

iii) Endometrium.

(4) Vagina :-

-) it is elastic tube
-) lying between bladder.
-) vagina connects the uterus with vestibule.

-) vagina is acidic PH 4-5
protects from infection.

Function :-

→ Discharge the

menstrual flow.

→ passage of fetus from uterus. (Birth Canal)

External Structure :->

1) mons pubis :->

① Rounded soft Subcutaneous

Fatty tissue.

② Flat form the anterior

border of external reproductive

organ.

③ Cover by pubic hair.

2) Labia majora & minora

→ two thick rounded lip

like structure.

→ it also called greater

lip. around the vagina

contains (Bartholin's gland)

help in intercourse.

→ contains Sebaceous gland

& pubic hair.

→ labia minora :->

•) lesser lip.

•) hairless.

•) Anterior aspect usually pigmented

•) sweat less.

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3) Clitoris :->

- > Small pea Sharp.
- > ~~play~~ play important part sexual excitement.
- > highly sensitive to temperature. Touch, pressure.
- >

4) Vestibule :->

- > oval shape.
- > Content :-
 - external orifice
 - Urethral orifice
 - Bartholin's gland.

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Q :: 2 :: B ::>

Ovulation :-

The Release of egg

during menstruation

in female.

The egg also known

as ovum.

* Hormon & their

Regulation :->

-> gonadotropin releasing

hormon.

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→ Follicular Stimulating hormone

→ ~~the~~ Luteinizing hormone

They produce by Brain

→ Estrogen & Progesterone

by ovaries.

रामेश्वर