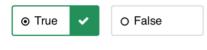


Eventiont

Primitive germ cells is derived from the yolk sac



The terminal part of penile urethra is endodermal in origin

O True		~
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## past

Regarding development of genital system, Choose the WRONG statement:

A.Urachal cyst is fluid-filled dilatation of the mid urachus

B.The ureteric bud gives rise to collecting system of the kidney

C.Ectopia vesicae is associated with the anterior wall of the bladder.

D.The metanephric cap gives rise to nephron

Answer: C

Choose the WRONG match:

A. Hypospadius—>the urethral orifice opens in the ventral aspect of the penis

B.The caudal part of paramesonephric ducts—>forms the uterus and upper3/5 of the vagina.

C. Mullarien tubercl—>forms seminal colliculus

D. Gabernaculum forms part of the—>Broad ligament

Answer: D

A newborn was present with swelling in the scrotum, clinical examination showed fluid around the testis. What best describes this case?

A- Patent Processes Vaginalis

B- Urine Incontinence

C- Urachal Fistula

**D-Ectodermal Extravasation** 

E-Patent Canal of Nuck

Ans: A

Which of the following structures is mesodermal in origin?
A- Prostatic urethra
B- Terminal part of glans penis
C. Anterior wall of Female urethra
D- Vas deferens
E- Lower 2/5 of Vagina
Ans:D

## Embryo1

- 1. Which structure induces the metanephric cap to form nephrons?
- a) Pronephric duct
- b) Urorectal septum
- c) Ureteric bud
- d) Cloacal membrane
- Answer: c) Ureteric bud
  - 2. The pronephric duct later becomes:
- a) Efferent ductules
- b) Mesonephric duct
- c) Ureter
- d) Trigone of the bladder
- Answer: b) Mesonephric duct

3. Which part of the male reproductive system originates from the mesonephros?

- a) Seminiferous tubules
- b) Efferent ductules
- c) Prostate gland
- d) Bulbourethral glands

## Answer: b) Efferent ductules

- 4. Horseshoe kidney is caused by fusion blocked by the:
- a) Celiac trunk
- b) Inferior mesenteric artery
- c) Superior mesenteric artery
- d) Median sacral artery
- Answer: b) Inferior mesenteric artery
  - 5. A bifid ureter results from:
- a) Failure of kidney ascent
- b) Bifurcation of the ureteric bud
- c) Persistent cloacal membrane
- d) Absent urorectal septum
- Answer: b) Bifurcation of the ureteric bud
  - 6. Which anomaly is linked to cysts in collecting ducts?
- a) Renal agenesis
- b) Congenital polycystic kidney
- c) Ectopic kidney
- d) Horseshoe kidney
- Answer: b) Congenital polycystic kidney
  - 7. The trigone of the bladder is derived from:
- a) Endodermal vesico-urethral canal
- b) Absorbed mesonephric ducts
- c) Cloacal membrane
- d) Allantois
- Answer: b) Absorbed mesonephric ducts
  - 8. Ectopia vesicae is often associated with:

- a) Horseshoe kidney
- b) Epispadias
- c) Hypospadias
- d) Urachal cyst
- Answer: b) Epispadias
  - 9. A patent urachus results in:
- a) Urine discharge from the umbilicus
- b) Bladder duplication
- c) Rectovesical fistula
- d) Pelvic kidney
- Answer: a) Urine discharge from the umbilicus
- Urethra Development
  - 10. The terminal part of the male penile urethra originates from:
- a) Phallic urogenital sinus
- b) Ectodermal ingrowth
- c) Pelvic urogenital sinus
- d) Mesonephric duct
- Answer: b) Ectodermal ingrowth
  - 11. In females, the dorsal wall of the urethra is derived from:
- a) Endoderm
- b) Mesoderm (mesonephric ducts)
- c) Ectoderm
- d) Cloacal membrane
- Answer: b) Mesoderm
  - 12. The pelvic part of the definitive urogenital sinus in males forms the:
- a) Seminal vesicles

- b) Infracollicular prostatic urethra
- c) Trigone of the bladder
- d) Glans penis
- Answer: b) Infracollicular prostatic urethra
  - 13. In females, the phallic part of the urogenital sinus contributes to the:
- a) Vestibule of the vagina
- b) Upper vagina
- c) Uterus
- d) Urethra
- Answer: a) Vestibule of the vagina
  - 14. Postnatal kidney ascent is accompanied by:
- a) Lateral rotation of the hilum
- b) Medial rotation of the hilum
- c) Persistence of lobulation
- d) Loss of renal arteries
- Answer: b) Medial rotation of the hilum
  - 15. Which structure becomes the median umbilical ligament?
- a) Mesonephric duct
- b) Urachus
- c) Cloacal membrane
- d) Urorectal septum
- Answer: b) Urachus

## Embryo2

- 1. The gonads develop from all the following sources EXCEPT:
- A) Proliferating coelomic epithelium

- B) Adjacent mesenchyme
- C) Primordial germ cells
- D) Neural crest cells
- Answer: D) Neural crest cells
- 2. During the indifferent stage (up to 6th-7th week), the developing gonad:
- A) Is already a testis
- B) Is already an ovary
- C) Cannot be differentiated as testis or ovary
- D) Has only mesonephric ducts
- Answer: C) Cannot be differentiated as testis or ovary
- 3. The testis determining factor (TDF) is located on:
- A) X chromosome
- B) Y chromosome
- C) Chromosome 21
- D) Mitochondrial DNA
- Answer: B) Y chromosome
- 4. Sertoli cells in the testis are responsible for synthesizing:
- A) Testosterone
- B) Mullerian Inhibitory Factor (MIF)
- C) Estrogen
- D) Gonadotropins
- Answer: B) Mullerian Inhibitory Factor (MIF)
- 5. The gubernaculum aids in:
- A) Formation of the broad ligament
- B) Descent of the testis
- C) Formation of the renal cortex

- D) Formation of the ovarian follicles
- Answer: B) Descent of the testis
- 6. Which of the following is NOT a congenital anomaly related to testicular descent?
- A) Cryptorchidism
- B) Ectopic testis
- C) Hydrocele
- D) Polycystic ovary
- Answer: D) Polycystic ovary
- 7. The round ligament of the uterus is derived from:
- A) Mesonephric duct
- B) Gubernaculum
- C) Urogenital sinus
- D) Paramesonephric duct
- Answer: B) Gubernaculum
- 8. The upper 3/5 of the vagina develops from:
- A) Urogenital sinus
- B) Paramesonephric (Müllerian) duct
- C) Mesonephric (Wolffian) duct
- D) Vaginal plate
- Answer: B) Paramesonephric (Müllerian) duct
- 9. In the male, the paramesonephric (Müllerian) ducts:
- A) Develop into the uterine tubes
- B) Regress under the effect of MIF
- C) Form the epididymis
- D) Form the prostate gland
- Answer: B) Regress under the effect of MIF

- 10. The broad ligament of the uterus is formed by:
- A) Mesonephric ducts
- B) Fusion of paramesonephric ducts and peritoneal folds
- C) Gubernaculum
- D) Urogenital sinus
- Answer: B) Fusion of paramesonephric ducts and peritoneal folds
- 11. Which structure forms the corpus spongiosum of the penis?
- A) Genital tubercle
- B) Mesenchyme of the urethral folds
- C) Genital swellings
- D) Paramesonephric duct
- Answer: B) Mesenchyme of the urethral folds
- 12. Hypospadias is due to:
- A) Incomplete fusion of the urethral folds
- B) Failure of gubernaculum shortening
- C) Persistence of the processus vaginalis
- D) Failure of the vaginal plate to canalize
- Answer: A) Incomplete fusion of the urethral folds
- 13. The clitoris develops from:
- A) Genital tubercle
- B) Urethral folds
- C) Genital swellings
- D) Urogenital sinus
- Answer: A) Genital tubercle
- 14. The canal of Nuck is related to:
- A) Persistence of processus vaginalis in females

- B) Failure of gubernaculum to shorten
- C) Non-fusion of urethral folds
- D) Formation of the broad ligament
- Answer: A) Persistence of processus vaginalis in females
- 15. Which of the following is a congenital anomaly of the female genital tract?
- A) Uterus bicornis
- B) Hydrocele
- C) Epispadias
- D) Cryptorchidism
- Answer: A) Uterus bicornis