#### QUESTIONS

# 1.15 Female Reproductive System

- 554. The ovary of a yough girl, who has not reached puberty, has:
  - (a) oogonia
  - (b) primordial follicles
  - (c) developing primary follicles
  - (d) mature secondary (Graafian) follicles
  - (e) artretic follicles
- 555. Primordial follociles in the ovary:
  - (a) appear during the embryonic period
  - (b) increase in number after birth
  - (c) contain secondary oocytes (oocyte II)
  - (d) are concentrated in the area of the hilus
  - (e) can complete their development through to ovulation at puberty
- 556. Associated with Graafian follicles are:
  - (a) zona pellucida
  - (b) cumulus oophorus
  - (c) theca folliculi
  - (d) liquor folliculi (follicular liquid)
  - (e) tunica albuginea
- 557. Corpora lutea develop:
  - (a) following ovulation
  - (b) from the theca folliculi only
  - (c) to their greatest degree during pregnancy
  - (d) into corpora albicans
  - (e) into steroid secreting glands
- 558. The corpora lutea:
  - (a) secrete progesterone
  - (b) are yellow in appearance
  - (c) develop mainly from granulose cells
  - (d) develop under the influence of luteinizing hormone (LH)
  - (e) have lipid-rich cells
- 559. The corpora lutea possess:
  - (a) an oocyte
  - (b) granulose lutein cells
  - (c) theca lutein cells
  - (d) a fluid-filled cavity
  - (e) many blood capillaries

- 560. Corpora albicantes are:
  - (a) found in fetal ovaries
  - (b) found in ovaries of young girls
  - (c) found in post-menopausal ovaries
  - (d) degenerate corpora lutea
  - (e) mainly composed of fibrous connective tissue
- 561. The zona pellucida of Ggraafian follicles:
  - (a) surrounds the oocyte
  - (b) is adjacent to the theca interna
  - (c) is in direct contact with the liquor folliculi
  - (d) stains PAS-position
  - (e) is penetrated by oocytes microvilli
- 562. The zona pellucida is:
  - (a) acidophilic
  - (b) basophilic
  - (c) homogeneous
  - (d) acellular
  - (e) composed of glycoproteins
- 563. Fertilization usually occurs in the:
  - (a) ovary
  - (b) peritoneal cavity
  - (c) oviduct
  - (d) vagina
  - (e) uterus
- 564. Follicular atresia may occur:
  - (a) at any stage in the development of a follicle
  - (b) only in mature Graafian follicles
  - (c) immediately after birth
  - (d) during pregnancy
  - (e) only after the menopause
- 565. The epithelium lining the oviduct is:
  - (a) simple columnar
  - (b) ciliated
  - (c) stratified
  - (d) pseudostratified
  - (e) transitional

- 566. The wall of the oviduct possesses:
  - (a) mucosa
  - (b) submucosa
  - (c) glands
  - (d) smooth muscle
  - (e) serosa
- 567. Stratified squamous epithelium may be found in the:
  - (a) oviduct
  - (b) cervic uteri
  - (c) vagina
  - (d) endometrium
  - (e) peritoneum
- 568. Which structure prevents entry of further spermatozoa after one has penetrated the oocyte?
  - (a) cumulus oophorus
  - (b) zona pellucida
  - (c) theca interna
  - (d) tunica albuginea
  - (e) theca externa
- 569. The endometrium:
  - (a) is constantly changing its histological appearance throughout the menstrual cycle
  - (b) is influenced by estrogen
  - (c) is influenced by progesterone
  - (d) has a fairly constant basal layer
  - (e) has a functional layer, which reaches its greatest development when the uterus is most ready for implantation
- 570. Coiled arteries of the endometrium:
  - (a) are found in the functional portion
  - (b) develop anew each menstrual cycle
  - (c) are especially well developed in the first half of the menstrual cycle
  - (d) constrict and close off blood supply at the end of the secretory phas
  - (e) are present in the cervix uteri
- 571. During menstruation:
  - (a) progesterone levels are low
  - (b) estrogen levels are low
  - (c) the basal layer of the endometrium disintegrates
  - (d) urterine glands break down
  - (e) uterine blood clots are common

#### 572. The cervix uteri:

- (a) is lined with endometrium that changes its appearance according to the stage of the menstrual cycle
- (b) has in certain areas simple, columnar, secretory epithelium
- (c) has large, branching mucous glands
- (d) has a well-developed muscular wall as in the fundus
- (e) dilates during parturition as a result of hormonal influences

# 573. The contraceptive pill usually contains synthetic analogues of:

- (a) FSH
- (b) LH
- (c) progesterone
- (d) estrogen
- (e) oxytocin

## 574. Gonadotrapins are secreted by the:

- (a) hypothalamus
- (b) adenohypophysis
- (c) thyroid
- (d) adrenal cortex
- (e) placenta

## 575. Estrogens are secreted by the:

- (a) adrenal cortex
- (b) theca interna of developing follicles
- (c) theca lutein cells of corpora lutea
- (d) placenta
- (e) vagina

# 576. Nabothian cysts are found in the:

- (a) oviduct
- (b) ovary
- (c) placenta
- (d) vagina
- (e) cervix uteri

#### 577. The vagina has:

- (a) glycogen-rich epithelial cells
- (b) mucus-secreting cells
- (c) stratified squamous epithelium
- (d) glands
- (e) rugae

- 578. Vaginal smears taken during the premenstrual phase of a normal menstrual cycle show large quantities of:
  - (a) acidophilic (cornified) cells
  - (b) intermediate cells with folded edges
  - (c) intermediate cells with smooth edges
  - (d) mucus
  - (e) neutrophilss
- 579. Placental functions include:
  - (a) nutrition of the developing fetus
  - (b) exretion of waste products
  - (c) gaseous exchange
  - (d) hormonal transfer
  - (e) hormonal synthesis
- 580. The maternal blood of the human placenta:
  - (a) mixes with the fetal blood
  - (b) is separated from the fetal blood by floating villi
  - (c) provides an exchange of metabolites with the fetal blood
  - (d) transfers antibodies to the fetal blood
  - (e) is separated from the fetal blood by a thicker physical barrier towards the end of pregnancy
- 581. The fetal part of the placenta is built from:
  - (a) chorionic plate
  - (b) deciduas basalis
  - (c) floating villi
  - (d) placenta septa
  - (e) intervillous spaces
- 582. The maternal part of the placenta includes:
  - (a) chorionic plate
  - (b) endometrial glands
  - (c) basal plate (deciduas basalis)
  - (d) intervillous spaces
  - (e) placental septa
- 583. Human chorionic gonadotropin in females is:
  - (a) secreted in small amounts from puberty until menopause
  - (b) only secreted during pregnancy
  - (c) active in stimulating the development of the corpus luteum of pregnancy
  - (d) secreted by the placental syncytiotrophoblast
  - (e) detectable in the urine of pregnant women

- 584. Decidual cells are:
  - derived from the fetal part of the placenta
  - derived from the maternal part of the placenta (b)
  - (c) rich in lipid
  - rich in glycogen (d)
  - most commonly found in the later stages of pregnancy (e)
- 585. In the mammary glands of adult females the secretory units:
  - are always well developed (a)
  - (b) have myoepithelia cells
  - reach their peak of development during the suckling period (c)
  - degenerate to a large degree when suckling ceases (d)
  - produce milk under the influence of prolactin (e)
- 586. The nipple has:
  - stratified squamous epithelium (a)
  - (b) keratin
  - elastic f ibers (c)
  - collagen fibers (d)
  - (e) smooth muscle
- 587. Lactiferous ducts:
  - are restricted to one per breast (a)
  - open on the nipple (b)
  - open on the areola (c)
  - are composed of simple epithelium (d)
  - are composed of two-layered epithelium (e)
- 588. During lactation the secretory cells of the mammary glands are:

  - columnar (a) (b) flat or cuboid
  - rich in lipid droplets (c)
  - rich in rough endoplasmic reticulum (d)
  - a storage site for milk (e)