

**THIRUVALLUVAR UNIVERSITY**  
**PERIYAR ARTS COLLEGE- CUDDALORE**  
**P.G. and Research DEPARTMENT OF ZOOLOGY**  
**III B.Sc., Zoology ODD Semester**  
**Endocrinology**

1. Which part of pancreas produce and secrete insulin?
  - (a) Glomerulus
  - (b) Bowman's capsule
  - (c) Islets of langerhans
  - (d) Henle's loop
2. Alpha cells are found in the ..... region of islets
  - (a) periphery
  - (b) centre
  - (c) both a and b
  - (d) none of the above
3. which cell produce insulin?
  - (a) Alpha cell
  - (b) Beta cell
  - (c) Delta cell
  - (d) Epsilon
4. Somatostatin was produced by
  - (a) Alpha cell
  - (b) Beta cell
  - (c) Delta cell
  - (d) Epsilon
5. The islets of langerhans are found in
  - (a) Kidney
  - (b) Liver
  - (c) Pancreas
  - (d) Stomach
6. The endocrine part of pancreas is
  - (a) Hepatic lobules
  - (b) Centroacinar cells
  - (c) Islets of langerhans
  - (d) Serosa
7. Insulin causes
  - (a) Anabolic effect
  - (b) Catabolic effect

- (c) Both A and B
  - (d) None of the above
8. Insulin involves in the conversion of glucose into
- (a) Lipids
  - (b) Glycogen
  - (c) Protein
  - (d) Carbohydrates
9. Glycogenolysis is the process of conversion of
- (a) Glycogen to glucose
  - (b) Glucose to glycogen
  - (c) Glucose to lipid
  - (d) Glucose to fatty acids
10. Who discovered islets of langerhans
- (a) Ben langerhan
  - (b) Paul langerhan
  - (c) Peter langerhan
  - (d) John langerhan
11. Pancreas is an ..... function
- (a) Exocrine
  - (b) Endocrine
  - (c) Both A and B
  - (d) None of the above
12. Insulin consists of
- (a) Two peptide chains
  - (b) One peptide chain
  - (c) Five peptide chain
  - (d) Six peptide chain
13. How many amino acids are present in the B-chain
- (a) 10 amino acids
  - (b) 50 amino acids
  - (c) 20 amino acids
  - (d) 30 amino acids
14. Insulin is synthesized as a large precursor
- (a) Preproinsulin
  - (b) Proinsulin
  - (c) Insulin
  - (d) None of the above
15. When glucose is more in blood plasma, it enters into Beta cells via
- (a) GLUT 4
  - (b) GLUT 2

- (c) GLUT 6
  - (d) None of the above
16. Approximately how many sperm cells are produced each testicle daily by a matured male
- (a) 5
  - (b) 5000
  - (c) 85 million
  - (d) 500
17. Another name for the sex cell is
- (a) Hormone
  - (b) Gamete
  - (c) Zygote
  - (d) Testicle
18. At what age does puberty starts in boys
- (a) At 20 years of age
  - (b) 10 to 11 years
  - (c) 12 to 14 years
  - (d) 16 to 20 years
19. Which of the following is incorrect
- (a) Hormones are produced by the testicle
  - (b) All males are born with one testicle
  - (c) Semen is produced in the seminal vesicle
  - (d) The testicle produce millions of sperm
20. The process where the reproductive organ begins to mature is
- (a) Puberty
  - (b) Fertilization
  - (c) Menstrual cycle
  - (d) Intercourse
21. Which one of the part is not a male reproductive system
- (a) Kidney
  - (b) Seminal vesicle
  - (c) Urethra
  - (d) Prostrate gland
22. What is the name of the tube that carries the sperm from the testes to the urethra
- (a) Sperm duct
  - (b) Seminal vesicle
  - (c) Penis
  - (d) Prostrate gland
23. Which one of the following is not the male reproductive system

- (a) Penis
  - (b) Testes
  - (c) Ovary
  - (d) Scrotum
24. The seminiferous tubules of the testis are lined by the germinal epithelium consisting of
- (a) Spermatids
  - (b) Cells of sertoli
  - (c) Spermatogonium
  - (d) Spermatocytes
25. These cells of the testes secrete testosterone
- (a) Sertoli cells
  - (b) Cells of germinal epithelium
  - (c) Cells of Leydig or interstitial cells
  - (d) Secondary spermatocytes
26. Another name of Bulbourethral gland is
- (a) Meibomian gland
  - (b) Prostrate gland
  - (c) Perineal gland
  - (d) Cowper's gland
27. The external organs of female reproductive system are collectively known as
- (a) Genitalia
  - (b) Vulva
  - (c) Perineum
  - (d) Fundus
28. Which of the following comes under the functions of female reproductive system
- (a) Formation of ova
  - (b) Lactation
  - (c) Parturition
  - (d) all Of the above
29. which organ of external genitalia blocks the opening of vagina
- (a) hymen
  - (b) labia minoria
  - (c) labia majora
  - (d) veatobular glands
30. The opening of vagina urethra and ducts of vestibular glands opens into
- (a) Labia majora

- (b) Uterus
  - (c) Vestibule
  - (d) None of the above
31. Layer of cells immediately surrounding the ovum but outside the zona pellucida is called as
- (a) germinal epithelium
  - (b) corona radiata
  - (c) theca interna
  - (d) membrana granulosa
32. Corpus luteum is the source of secretion of
- (a) LH
  - (b) Estradiol
  - (c) Estrogen
  - (d) Progesterone
33. The membrane investing the ovum just outside the membrana granulosa is
- (a) theca interna
  - (b) discus proligerus
  - (c) zona pellucida
  - (d) vitelline membrane
34. If after ovulation, pregnancy does not take place, then the corpus luteum
- (a) produces lot of relaxin and oxytocin
  - (b) degenerates in a short time
  - (c) is maintained in the presence of progesterone
  - (d) becomes active and secretes a lot of LH and FSH
35. Graafian follicle are characteristically found in the
- (a) ovary of frog
  - (b) testis of mammal
  - (c) thyroid of mammal
  - (d) ovary of mammal
36. In female mammals, Bartholin's glands open into the

- (a) fallopian tubes and release a secretion which makes sperms motile
  - (b) uterus and release a lubricating fluid during the birth of young ones
  - (c) urinary bladder and assist in the release of urine
  - (d) vestibule and release a lubricating fluid in the vagina
37. After ovulation, the Graafian follicle becomes an endocrine organ called
- (a) fibrin
  - (b) ovarian tube
  - (c) globulin
  - (d) corpus luteum
38. which organ lies in the pelvic cavity between the bladder and rectum
- (a) uterus
  - (b) vagina
  - (c) fallopian tube
  - (d) clitoris
39. in a typical menstrual cycle of 28 days what is the most likely fertile period
- (a) Days 1 to 5
  - (b) Days 11 to 14
  - (c) Days 15 to 20
  - (d) Days 21 to 24
40. Another name for the neck of the uterus
- (a) Cervix
  - (b) Fallopian tube
  - (c) Vagina
  - (d) The womb
41. which one of the following is not a part of female reproductive system
- (a) Prostrate gland
  - (b) Ovary
  - (C) Vagina
  - (d) Urethra
42. Fusion of male and female gamete to form a zygote is termed as

- (a) Ejaculation
- (b) Fertilization
- (c) Menstruation
- (d) Pollination

43. In female reproductive system thousands of egg found in

- (a) Fallopian tube
- (b) Ovaries
- (c) Vagina
- (d) Uterus

44. where in the female reproductive system is fertilization most likely to take place

- (a) Fallopian tube
- (b) Cervix
- (c) Vagina
- (d) Uterus

45. which one carries the egg to the uterus

- (a) Ovary
- (b) Cervix
- (c) Fallopian tube
- (d) none of the above

### **Answer Key**

1 : C    2 : A    3 : B    4 : C    5 : C  
6 : C    7 : A    8 : B    9 : A    10 : B  
11 : C    12 : A    13 : D    14 : A    15 : B  
16 : C    17 : B    18 : C    19 : B    20 : A  
21 : A    22 : A    23 : C    24 : B    25 : C  
26 : D    27 : B    28 : D    29 : A    30 : C  
31 : B    32 : D    33 : A    34 : B    35 : D  
36 : D    37 : D    38 : A    39 : B    40 : A  
41 : A    42 : B    43 : B    44 : A    45 : C