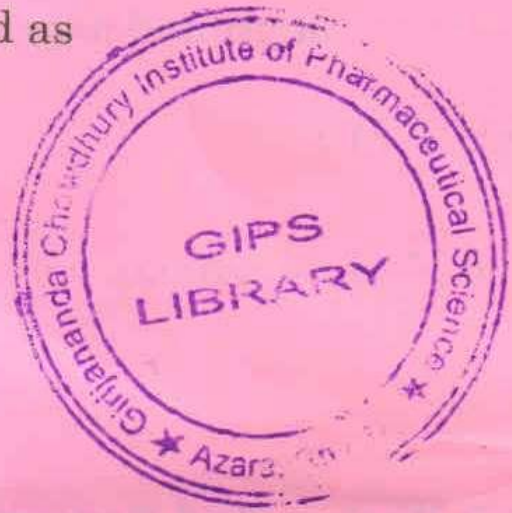


3. The 8th cranial nerve is called as
- (a) Hypoglossal
 - (b) Abducens
 - (c) Glossopharyngeal
 - (d) Vagus
4. Parathyroid hormone
- (a) Regulate calcium level
 - (b) Reabsorption of water in renal tubule
 - (c) Digest protein
 - (d) Increased HCL Secretion
5. Which one is matched correctly?
- (a) Transcription- synthesis of protein
 - (b) Translation- m RNA carrying information nucleus to ribosome
 - (c) Ribosomal RNA- carry amino acid to site of protein synthesis
 - (d) Anticodon- site of tRNA having complementary bases to a codon of mRNA
6. The inner lining of the uterus called-
- (a) Cervix
 - (b) Myometrium
 - (c) Endometrium
 - (d) Fimbriae
7. The process of sperm production takes place in the
- (a) Epididymis
 - (b) Prostate glands
 - (c) Vasdeferens
 - (d) Seminiferous tubules

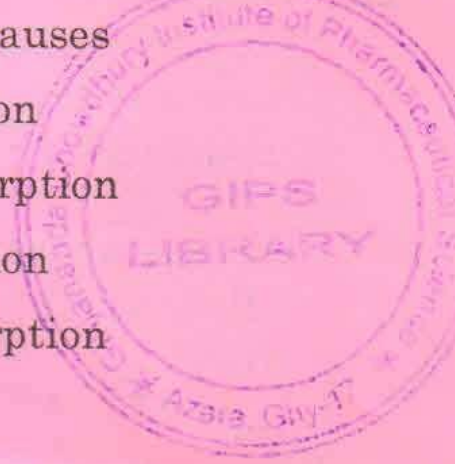


8. Which one of the followings secretes the gonadotropic hormones?
- (a) Anterior pituitary
 - (b) Adrenal
 - (c) Thyroid
 - (d) Pineal
9. The _____ of the testes secrete male hormones, such as testosterone.
- (a) Seminiferous tubules
 - (b) Sustentacular cells
 - (c) Interstitial cells of leydig
 - (d) None of above
10. The hypothalamic nucleus that act as a biological clock of the body
- (a) Supraoptic nucleus
 - (b) Preoptic nucleus
 - (c) Arcuate nucleus
 - (d) Suprachiasmatic nucleus
11. The recording of _____ waves in adults generally indicates severe emotional stress.
- (a) Alpha
 - (b) Beta
 - (c) Delta
 - (d) Theta
12. The _____ are glial cells that migrate throughout the central nervous system, removing foreign and degenerated material.
- (a) Microglia
 - (b) Astrocytes
 - (c) Oligodendrocytes
 - (d) Ependymal cells



13. What blocks pancreatic secretions from entering the duodenum?
- (a) Pyloric sphincter
 - (b) Sphincter of Oddi
 - (c) Cholecystikinin secretion
 - (d) The common bile duct
14. The Adam's apple directly part of?
- (a) Thyroid cartilage
 - (b) Cricoid cartilage
 - (c) Tracheal rings
 - (d) Epiglottis
15. Within the blood, oxygen is primarily transported _____ while the bulk of carbon dioxide is transported _____.
- (a) In association with hemoglobin; as carbon dioxide, dissolved in the plasma
 - (b) As deoxyhemoglobin; as carbaminohemoglobin
 - (c) As oxyhemoglobin; as bicarbonate ions
 - (d) Dissolved in the plasma; as carbaminohemoglobin
16. Anatomical dead space is about _____ on the average in human.
- (a) 150 ml.
 - (b) 70 ml.
 - (c) 280 ml.
 - (d) 35 ml.



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17. Anti-diuretic hormone (ADH) causes
- (a) Increased H_2O reabsorption
 - (b) Decreased calcium reabsorption
 - (c) Decreased H_2O reabsorption
 - (d) Increased calcium reabsorption
18. The net filtration pressure is
- (a) 20 mmHg
 - (b) 35 mmHg
 - (c) 50 mmHg
 - (d) 10 mmHg
19. Which of the following is a component of juxtaglomerular apparatus?
- (a) Efferent arteriole
 - (b) Macula densa
 - (c) Podocyte
 - (d) None of above
20. Age, Gender, Body size and climate determine the
- (a) Growth rate of an individual
 - (b) Basal metabolic rate
 - (c) Basal hydrolysis rate
 - (d) Pressure influence on growth rate

SECTION B

Answer any two questions : (2 × 10 = 20)

21. What hCG and ectopic pregnancy? Explain about female internal reproductive organs. Discuss in detail different phases of menstrual cycle.
(2 + 3 + 5 = 10)

22. Describe the physiology of urine formation. Briefly explain the process of micturition. Distinguish between respiratory volume and respiratory capacities. (6 + 2 + 2 = 10)

23. Discuss about neurotransmission in CNS. What is reflex action? Describe the components of reflex arch. (5 + 2 + 3 = 10)

SECTION C

Answer any seven questions : (7 × 5 = 35)

24. Describe about different gastro-intestinal secretions and their role in digestion. (5)

25. Describe the biosynthesis and functions of thyroid hormone. (5)

26. What is Suprarenal gland? Describe about the different hormones secreted by the gland? (1 + 4 = 5)

27. Explain role of rennin angiotensin aldosterone system (RAS). (5)

28. What are meninges and their functions? Brief the functions of cerebrum and cerebellum. (2 + 3 = 5)

29. Explain mechanism of gaseous exchange during internal and external respiration. (5)

30. Discuss about the steps of protein synthesis. (5)

31. What is BMR and Oxidative phosphorylation? Brief the structure of liver. (5)

32. Describe the mechanism of fertilization. (5)