

B.Sc. [Medical (Part-III)]

BF/2009/07

Anatomy

M.M. : 100

Time : 3 Hours

*Note: Attempt any **FIVE** questions. Illustrate your answers with suitable diagrams.*

1. Describe origin, course, relations and branches of Facial nerve. [20]
2. **Describe briefly:** [4x5=20]
 - a. Dangerous area of face.
 - b. Vocal cord.
 - c. Nerve supply of Scalp.
 - d. Down's syndrome.
3. **Describe origin, insertion, nerve supply and actions of following muscles:**
 - a. Superior rectus.
 - b. Lateral pterygoid.
 - c. Digastric.
 - d. Stylopharyngeus.[4x5=20]
4. **Write short notes on the following:** [4x5=20]
 - a. Histology of Thyroid gland.
 - b. Optic chiasma.
 - c. Development of parathyroid gland.
 - d. Carotid sheath.
5. **Write short notes on the following:** [4x5=20]
 - a. Development of Tongue.
 - b. Medial wall of Middle ear.
 - c. Sphenothmoidal recess.
 - d. Quadrate membrane.
6. **Enumerate the following(only names):** [4x5=20]
 - a. Cartilages of Larynx.
 - b. Fibres present in genu part of internal capsule.
 - c. Branches of external carotid artery.
 - d. Muscles of soft palate.
7. **Write short notes on the following:** [4x5=20]
 - a. Inferior horn of lateral ventricle.
 - b. Parotid capsule.
 - b. Histology of sublingual gland.
 - c. Dermatoglyphics.
8. **Describe briefly:** [4x5=20]
 - a. Tela choroidea.
 - b. Fasciculus cuneatus.
 - c. Straight sinus.
 - d. Blood supply of Cerebellum.

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Physiology

M.M. : 100

Time : 3 Hours

*Note: Attempt any **FIVE** questions. Draw suitable diagrams wherever necessary.*

1. Describe the functions of Hypothalamus. [20]
2. Describe synthesis and functions of Thyroid hormones. [20]
3. **Compare and contrast the following:**
 - a. Diabetes Mellitus and Diabetes insipidus. [10]
 - b. Motor aphasia and Sensory aphasia. [10]
4. **Write action of the following:**
 - a. Testosterone. [10]
 - b. Calcitonin. [10]
5. **Write notes on:**
 - a. Ovarian cycle. [10]
 - b. Physiology of Hearing. [10]
6. **Write notes on:** [4x5=20]
 - a. Colour vision.
 - b. Withdrawl reflex.
 - c. REM sleep.
 - d. Milk ejection reflex.

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Biochemistry

M.M. : 100

Time : 3 Hours

*Note: Attempt any **FIVE** questions.*

1. What is Replication? Describe the process of Replication. [20]
2. Define Chromatography. Enumerate the main types of Chromatography. Give brief description and applications of each type. [20]
3. What is the difference between Oxidative Phosphorylation and Substrate level phosphorylation? How ATPs are synthesized in E.T.C. [5+15=20]
4. How Haem is synthesized? Write a note on Porphyrins. [10+10=20]
5. Which Plasma protein fraction gives immunity? Enumerate various types of immunoglobulins and describe their structure. [20]
6. **Write short notes on:** [4x5=20]
 - a. Vander Bergh test.
 - b. Urea clearance test.
 - c. Plasmids.
 - d. DNA vaccine.

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Psychology & Education

(New Scheme)

M.M. : 80

Time : 3 Hours

*Note: Attempt any **FIVE** questions.*

1. Describe the Socio-psychological development of adolescent & young adults? [16]
2. What do you know about Cognitive development among youth? [16]
3. What problems Indian youth face in areas of home life, religion & health? [16]
4. Describe the causes & treatment of Drug abuse? [16]
5. Youth need Guidance & Counselling. Discuss? [16]
6. Evaluation of knowledge is important part of education. Discuss? [16]
7. Describe the role of Media in Education. [16]
8. Describe the importance of Websites in education? [16]
