

৩৯তম বিশেষ বিসিএস (স্বাস্থ্য)

Medical Part

মোট প্রশ্ন	১০০টি
অংশ	মেডিকেল অংশ
প্রশ্ন	১-১০০

39th Special BCS: Medical Science

Anatomy:

103. Simple squamous epithelium is found in:

- a) Lining of fallopian tube
- b) Endothelium
- c) Lining of gall bladder
- d) Lining of urinary bladder

Ans. B

105. In which region, deep fascia is absent?

- a) Neck
- b) Abdominal wall
- c) Sole
- d) Face

Ans. B

110. DNA is found in:

- a) Chromosome
- b) Lysosome
- c) Golgi complex
- d) Ribosome

Ans. A

112. All are functions of epithelial tissue except:

- a) Contractility
- b) Globulin synthesis
- c) Absorption
- d) Secretion

Ans. B

116. Which of the following structure passes through the aortic opening of the diaphragm?

- a) Thoracic duct
- b) Vagal trunk
- c) Azygos vein
- d) Inferior venacava

Ans. A

118. Male external genital organ includes:

- a) Penis
- b) Prostate
- c) Seminal vesicle
- d) Epididymis

Ans. A

120. Elastic cartilage is not found in:

- a) Auricle of ear
- b) Epiphyseal plate of bone
- c) Auditory tube
- d) Epiglottis

Ans. B

124. Meiosis produces:

- a) 4 haploid cells
- b) 2 Haploid cells
- c) 4 Diploid cells
- d) 2 Diploid cells

Ans. A

125. Extracellular matrix is more in:

- a) Muscular tissue
- b) Connective tissue
- c) Nervous tissue
- d) Epithelial tissue

Ans. B

126. Blood group antigens are:

- a) Present in the RBC membrane
- b) Present in the plasma
- c) Present in the molecules
- d) Present in the dense granules of platelets

Ans. A

137. Which one of the following is responsible for Carpal tunnel syndrome?

- a) Median nerve compression
- b) Radial nerve compression
- c) Axillary nerve compression
- d) Ulnar nerve compression

Ans. A

138. Autonomic ganglion are:

- a) Cholinergic
- b) Dopaminergic
- c) Adrenergic
- d) Noradrenergic

Ans. A

146. Smooth muscle is found in:

- a) Wall of blood vessel
- b) Tongue
- c) Soft palate
- d) Diaphragm

Ans. A

147. Medial boundary of the femoral ring is formed by:

- a) Lacunar ligament
- b) Femoral vein
- c) Pectineus muscle
- d) Inguinal ligament

Ans. A

149. Dermis:

- a) Contain melanocytes

- b) Possess keratinocytes
- c) Is a layer of epithelial tissue
- d) Is formed by connective tissue

Ans. D

160. Urinary bladder is lined by:

- a) Columnar epithelium
- b) Cuboidal epithelium
- c) Squamorts epithelium
- d) Transitional epithelium

Ans. D

158. Superior mesenteric artery supplies blood to:

- a) Gall bladder
- b) The appendix
- c) 1st part duodenum
- d) left 1/3rd of transverse colon

Ans. B

163. Detrusor muscle is a muscle of:

- a) Urogenital diapluragm
- b) Urinary bladder
- c) Serotum
- d) Spennatic cord

Ans. B

171. Medial surface of brain is supplied by:

- a) Vertebral artery
- b) Posterior inferior cerebellar artery
- c) Middle cerebral artery
- d) Anterior cerebral artery

Ans. D

182. The supporting cells of nervous system is called:

- a) Ganglia
- b) Purkinjee cell
- c) Neuroa
- d) Neuroglia

Ans. D

186. Which one is false about lung?

- a) The left lung has only as oblique fissure
- b) The left lung is divided into 3 lobes
- c) Conical in shape
- d) The right lung is slightly larger than the left

Ans. B

194. The superficial inguinal ring is an opening in the:

- a) External oblique aponeurosis
- b) Fascia transversalis
- c) Internal oblique aponeurosis

d) Conjoint tendon

Ans. A

196. The rectum:

- a) Is related anteriorly to the cervix
- b) Has a venous drainage into the superior vena cava
- c) Begins in front of the 1st sacral vertebra
- d) Has a lining of stratified squamous epithelium

Ans. A

188. The function of mitochondria includes:

- a) Vesicle transport
- b) proton pump operation
- c) Anaerobic glycolysis
- d) Activation of intrinsic pathway of apoptosis

Ans. B

179. Which of the following crosses the ureter in the female as it approaches the uretero vesical junction?

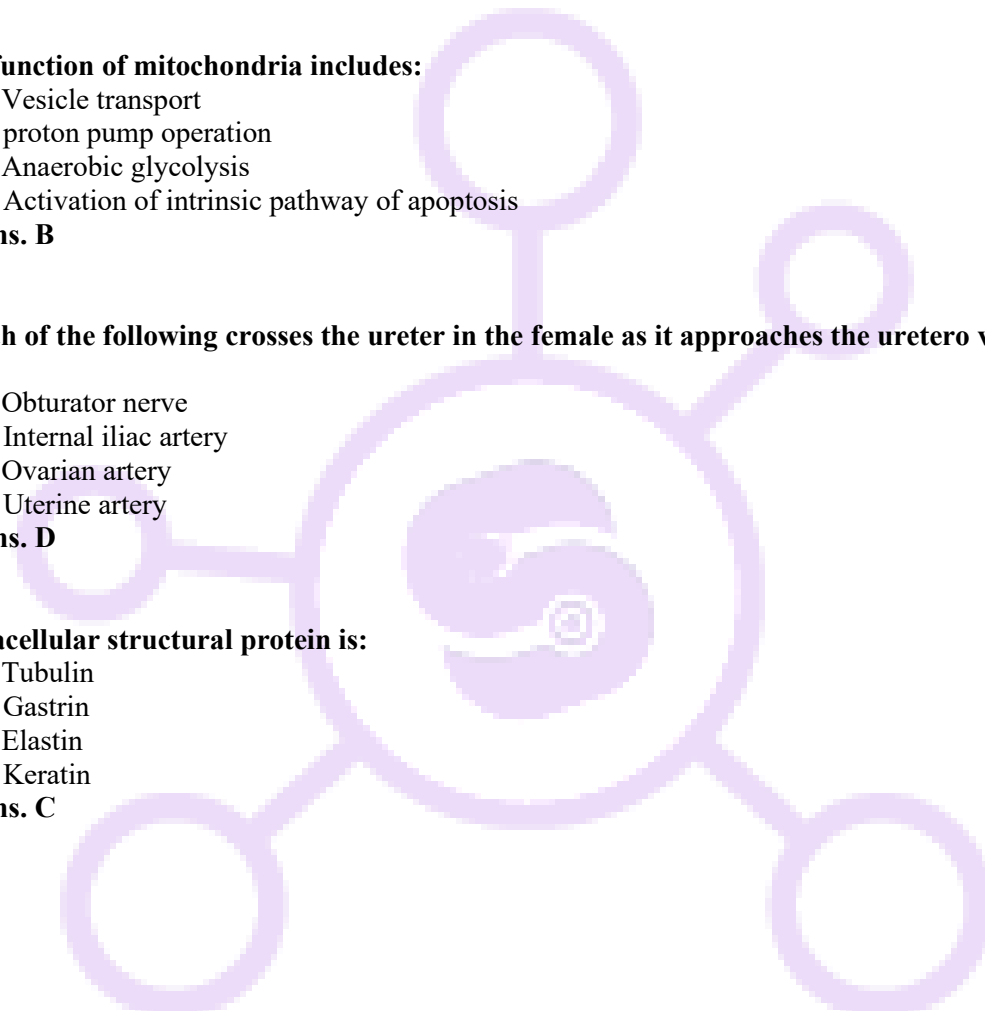
- a) Obturator nerve
- b) Internal iliac artery
- c) Ovarian artery
- d) Uterine artery

Ans. D

180. Extracellular structural protein is:

- a) Tubulin
- b) Gastrin
- c) Elastin
- d) Keratin

Ans. C



39th Special BCS: Medical Science

Physiology

107. The value of lung tidal volume is:

- a) 500 ml
- b) 5000 ml
- c) 1500 ml
- d) 2000 ml

Ans. A

117. Abnormal constituent of urine is:

- a) Disodium mono hydrogen phosphate
- b) Albumin
- c) Creatinine
- d) Urea

Ans. A

121. Serum sodium level is:

- a) 135-145 mmol/L
- b) 145-155 mmol/L
- c) 130-140 mmol/L
- d) 125-140 mmol/L

Ans. A

129. In adult, the daily loss of fluid loss of fluid is the feces, normally is:

- a) 150 ml
- b) 200 ml
- c) 50 ml
- d) 100 ml

Ans. D

133. Main site of peripheral resistance is:

- a) Venule
- b) Capillary
- c) Arteriole
- d) Meta arteriole

Ans. C

136. At which of the following phase of cardiac cycle does the atrioventricular valve open-

- a) During iso volumetric relaxation
- b) During ventricular filling
- c) During atrial filling
- d) During isovolumetric contraction

Ans. B

140. Signs of upper motor neuron lesion include all except:

- a) Loss of all reflexes
- b) Planter response extensor

- c) Weakness or paralysis of limb
- d) Hypertonia of muscles

Ans. A

143. During accommodation reaction there is:

- a) Increase in transverse diameter of lens
- b) Contraction of ciliary muscle
- c) Contraction of pupil by sympathetic nerve
- d) Contraction of suspensory ligament

Ans. B

145. In infants, defecation often follows a meal. The cause of colonic contractions in the situation is:

- a) The gastrocolic reflex
- b) The enterogastric reflex
- c) Histamine
- d) Increased circulating level of CCK

Ans. A

148. Erythroblastosis fetalis may develop when:

- a) Rh (+) mother carrier Rh (+) fetus
- b) Rh (-) mother carrier Rh (-) fetus
- c) Rh (+) mother carrier Rh (-) fetus
- d) Rh (-) mother carrier Rh (+) fetus

Ans. D

150. Heparin is:

- a) Secreted by goblet cell
- b) Found in the bone marrow
- c) A natural anticoagulant
- d) An enzyme

Ans. C

159. Rh incompatibility is:

- a) Cytotoxic
- b) Delayed hypersensitivity
- c) Atopic
- d) Anaphylactic

Ans. A

161. Histamin causes:

- a) Vasodilation
- b) Bradycardia
- c) Hypertension
- d) Vasoconstriction

Ans. A

164. During sleep there is fall in the circulating level of hormone except:

- a) Growth hormone
- b) Insulin
- c) Adrenaline
- d) Cortisol

Ans. A

165. Microcytic hypochromic anemia is found in:

- a) Thalassemia
- b) Multiple myeloma
- c) Liver disease
- d) Infective endocarditis

Ans. A

167. The tissue macrophage is derived from:

- a) Eosinophil
- b) Helper T cell
- c) Lymphocyte
- d) Monocyte

Ans. D

168. Which component is not present in CSF:

- a) Erythrocyte
- b) Leucocyte
- c) Glucose
- d) Protein

Ans. A

169. Ovulation occurs:

- a) 14 days before the onset of next menstruation
- b) During the midpart of menstruation
- c) During female orgasm
- d) 14 days after the onset of menstruation

Ans. A

170. Insulin increases:

- a) Glycogenesis
- b) Gluconcogenesis
- c) Lipolysis
- d) ketogenesis

Ans. A

176. Which are of the following clotting factor is called primary clotting factor?

- a) Labile factor
- b) Anti hemophilic factor
- c) Fibrinogen
- d) Stable factor

Ans. C

180. Compared to hepatic bile, gall bladder bile contains a reduced concentration of which of the following?

- a) Protein
- b) Glucose
- c) Water
- d) Bile acid

Ans. C

184. Plasm clearance value of glucose is:

- a) 125/ml/min
- b) 140 ml/min
- c) 0 ml/min
- d) 75 ml/min

Ans. C

185. Milk ejection in female is caused by:

- a) Prolactin
- b) Oxytocin
- c) Oestrogen

d) Progesterone

Ans. B

187. Site of absorption of vitamin B12 is:

- a) Jejunum
- b) ilcum
- c) Stomach
- d) Duodenum

Ans. B

190. Amount of Hb contained in late normoblast is:

- a) 30 Pg
- b) 35 Pg
- c) 20 Pg
- d) 25 pg

Ans. A

198. Which vitamin is not synthesised in body?

- a) Vit-A
- b) Biotin
- c) Vit-D
- d) Vit-K

Ans. A

Pathology

101. Cardiogenic shock may be due to:

- a) Hypovolemia
- b) Neurogenic
- c) Pump failure
- d) Infection

Ans. C

102. “Ghon Focus” is situated in:

- a) Peritoneum
- b) Lung
- c) Pleura
- d) Pericardium

Ans. B

104. Which of the following conditions is not precancerous?

- a) Cervical dysplasia
- b) Glycogen storage disease
- c) Solar keratosis of skin
- d) Ulcerative colitis

Ans. B

109. Which of the following occurs during reverse transcriptase polymerase chain reaction?

- a) Used to amplify DNA
- b) RNA is converted to DNA
- c) Proteins are converted to DNA
- d) DNA is converted to RNA

Ans. A

114. Modifiable risk factor of hypertension is:

- a) Sex
- b) family history
- c) Age
- d) Smoking

Ans. D

115. Features of fibroadenoma include:

- a) Common age after 30 years
- b) Stroma is scanty
- c) Usually multiple
- d) Rectangular in shape

Ans. C

191. Exotoxin mediated disease is:

- a) Kuru
- b) Nipah encephalitis
- c) Necrotising fasciitis
- d) Wegner's granulomatosis

Ans. C

192. Atherosclerosis:

- a) Is a progressive inflammatory disorder of the arterial wall
- b) Involves only some blood vessels of body
- c) Begin after 40 years
- d) Characterized by deposition of collagen, protein and fat

Ans. D

193. Morphological appearance of necrosis is the result of:

- a) Mummification of cells
- b) Intra cellular alkalosis
- c) Denaturation of intracellular proteins
- d) Saponification of cells

Ans. C

189. Which of the following is a tumor marker?

- a) CRP
- b) Ferritin
- c) PSA
- d) CA 19-9

Ans. D

122. X-linked recessive disorder is:

- a) Polycystic kidney disease
- b) Wilson's disease
- c) Alkaptonuria
- d) Hemophilia

Ans. D

183. Basal cell carcinoma includes:

- a) Mutation of RB gene occur
- b) Early lesions of pale translucent papules
- c) No metastasis

d) Typically at the non-sun exposure
Ans. C

123. Karyotype of Turner Syndrome is:

- a) 46 XX
- b) 47 XXY
- c) 45 XO
- d) 45 XY

Ans. C

127. In progressive phase of shock:

- a) Metabolic alkalosis
- b) There is wide spread tissue hypoxia
- c) Survival is not possible
- d) Complete renal shutdown

Ans. B

157. Adult polycystic kidney disease is a condition of:

- a) Autosomal dominant trait
- b) Autosomal recessive
- c) Chromosomal abnormality
- d) X-linked recessive

Ans. A

178. Immediate blood transfusion reaction factors:

- a) Hypokalaemia
- b) Circulating overload
- c) Air embolism
- d) Hypercalcemia

Ans. B

Medicine

106. Non cardiac causes of atrial fibrillation is:

- a) Chronic kidney disease
- b) Stroke
- c) Pneumonia
- d) Chronic liver disease

Ans. C

108. *Mycobacterium leprae* has special predilection for:

- a) Schwann cells
- b) Dorsal root ganglion
- c) Epithelium
- d) Lymphatics

Ans. A

111. The drug of choice for cerebral malaria is:

- a) Oral doxycycline
- b) Combination of sulphamethoxazole and pyremethamine
- c) Oral quinine

d) Injectable artesunate

Ans. D

113. Causes of bilateral leg swelling does not always include:

- a) Kidney failure
- b) Deep Vein Thrombosis
- c) Hypoproteinemia
- d) Heart failure

Ans. B

199. rk-39 strip test is used to diagnose:

- a) Dengue fever
- b) Tuberculosis
- c) Malaria
- d) Kala-azar

Ans. D

200. Causes of renal failure in multiple myeloma includes all except:

- a) Hypocalcemia
- b) Amyloid deposition
- c) Membranous glomerulo nephritis
- d) Para protein deposition

Ans. A

195. Acute heart failure may occur in:

- a) Myxoedema
- b) Leparomatous condition
- c) Rheumatoid arthritis
- d) Rheumatic fever

Ans. D

197. Nephrotic syndrome includes:

- a) Oliguria
- b) Overt proteinuria
- c) Hematuria
- d) Hypertension

Ans. B

181. Parasitic infection associated with anemia is:

- a) Onchocerca volvulus
- b) Necator americanus
- c) Loa loa
- d) W. Bancroft

Ans. B

119. Pre-XDR tuberculosis means:

- a) TB resistant to isoniazid, rifampicin, and ciprofloxacin
- b) TB resistant to isoniazid, rifampicin and pyrazinamide
- c) TB resistant to isoniazid and rifampicin
- d) TB resistant to isoniazid and ciprofloxacin

Ans. A

128. Prednisolone 5 mg is equivalent to:

- a) Dexamethasone 2mg
- b) Dexamethasone 8mg
- c) Hydrocortisone 40mg
- d) Hydrocortisone 20mg

Ans. D

130. Which one of the following is a source of pulmonary embolism?

- a) Deep veins of leg
- b) Iliac arteries

- c) Mesenteric vein
- d) Portal vein

Ans. A

131. Extra pyramidal lesion causes:

- a) Cog wheel rigidity
- b) Hyper reflexion of lower limb
- c) Flaccid paralysis
- d) Hyper kinesis

Ans. A

134. Commonest cause of hepatic cirrhosis in Bangladesh is:

- a) HCV
- b) HEV
- c) HAVO
- d) HBV

Ans. D

135. A 60 year old gentleman has been diagnosed as vitamin B12 deficiency due to pernicious anemia. Which of the following is unlikely to happen:

- a) Posterior column involvement
- b) Optic atrophy
- c) Cortico spinal tract involvement
- d) Seizure

Ans. D

139. Clinical toxicity occurs in all of the following micro nutrients except-

- a) Fluoride
- b) Copper
- c) Iron
- d) Iodine

Ans. D

141. Which disease is the mimicking anxiety disorder?

- a) Hypoglycemia
- b) Temporal lobe epilepsy
- c) Alcohol withdrawal
- d) Hypothyroidism

Ans. B & C

142. Which of the following types of shock is caused by failure of the heart to pump effectively?

- a) Hypervolemia shock
- b) Anaphylactic shock
- c) Septic shock
- d) Cardiogenic shock

Ans. D

151. Which of the following type of necrosis is seen in acute myocardial infarction?

- a) Coagulative necrosis
- b) Fat necrosis
- c) Caseous necrosis
- d) Gangrenous necrosis

Ans. A

152. The major patho physiologic abnormality of Dengue Shock Syndrome is:

- a) Plasma leakage
- b) Thrombocytopenia
- c) Histiocytosis
- d) Leukopenia

Ans. A

144. Which one of the following acts as anti-oxidant?

- a) Hydrogen peroxide

- b) Hypo chlorous acid
- c) Ceruloplasmin
- d) Ionizing radiation

Ans. C

153. Christmas disease develops due to deficiency of clotting factor:

- a) VIII
- b) IX
- c) V
- d) VII

Ans. B

154. Drug causing increased uric acid level is:

- a) Colchicine
- b) Levofloxacin
- c) Pyrazinamide
- d) Steroid

Ans. C

155. Drug used in "Scabies" is:

- a) Sulfasalazine
- b) Ivermectin
- c) Permethrin
- d) Streptomycin

Ans. C

156. Following are the causes of vertigo except:

- a) Vestibular neuritis
- b) Bell's palsy
- c) Benign positional vertigo
- d) Acoustic neuroma

Ans. B

162. Neonates may be infected with all except:

- a) Malaria
- b) Shigellosis
- c) Brucellosis
- d) Hepatitis B virus

Ans. A?

166. Confirmatory marker for viremic stage of Hepatitis B virus infection is:

- a) HBV DNA
- b) Anti-HBeAg
- c) HBsAg
- d) Anti-HBs

Ans. A

172. Clinical cyanosis is due in:

- a) Fetal hemoglobin
- b) Biliverdin
- c) Adult hemoglobin
- d) Reduced hemoglobin

Ans. D

173. Which of the following may cause hypercalcaemia?

- a) Hypoparathyroidism
- b) Cushing's syndrome
- c) Multiple myeloma
- d) Frusemide therapy

Ans. C

174. Cardinal feature of atopic dermatitis is:

- a) Widespread oily skin
- b) Increased IgM level
- c) Swelling
- d) Scratching

Ans. D

177. Which of the following malignancies is associated with radiation?

- a) Burkitt's lymphoma
- b) Acute lymphoblastic leukaemia
- c) Ovarian carcinoma
- d) MALToma

Ans. B

175. BCG vaccine at birth causes:

- a) Controlled primary infection
- b) Prevention of MDR tuberculosis
- c) Prevention of primary tuberculosis
- d) Prevention of secondary tuberculosis

Ans. C

