

National Testing Agency

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Nutritional and Clinical Biochemistry

Group Number :	1
Group Id :	899514173
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Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Nutritional and Clinical Biochemistry

Section Id :	899514239
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100

Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	899514283
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 89951414629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Disease caused by deficiency of vitamin A is

1. Xerophthalmia
2. Rickets
3. Beri Beri
4. Haemolytic anaemia

Options :

89951457079. 1
89951457080. 2
89951457081. 3
89951457082. 4

Question Number : 2 Question Id : 89951414630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Disease caused by deficiency of vitamin D is

1. Scurvy
2. Beri Beri
3. Osteomalacia
4. Xerophthalmia

Options :

89951457083. 1
89951457084. 2
89951457085. 3
89951457086. 4

Question Number : 3 Question Id : 89951414631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The Recommended Dietary Allowances (RDA) of vitamin A for adult is

1. 800-1000 RE
2. 500-600 RE
3. 100-300 RE
4. 100-200 RE

Options :

89951457087. 1
89951457088. 2
89951457089. 3
89951457090. 4

Question Number : 4 Question Id : 89951414632 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The Recommended Dietary Allowances (RDA) of vitamin D for adult is

1. 100 IU
2. 400 IU
3. 1000 IU
4. 800 IU

Options :

89951457091. 1
89951457092. 2
89951457093. 3
89951457094. 4

Question Number : 5 Question Id : 89951414633 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Name the vitamin involved in blood clotting?

1. Vitamin A
2. Vitamin D
3. Vitamin C
4. Vitamin K

Options :

89951457095. 1
89951457096. 2
89951457097. 3
89951457098. 4

Question Number : 6 Question Id : 89951414634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The Recommended Dietary Allowances (RDA) of vitamin E for adult is

1. 100-200 IU
2. 12-15 IU
3. 5-10 IU
4. 80-100 IU

Options :

89951457099. 1
89951457100. 2
89951457101. 3
89951457102. 4

Question Number : 7 Question Id : 89951414635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The Recommended Dietary Allowances (RDA) of vitamin K for adult is

1. 70-140 µg/day
2. 10-20 µg/day
3. 40-60 µg/day
4. 600-800 µg/day

Options :

89951457103. 1
89951457104. 2
89951457105. 3
89951457106. 4

Question Number : 8 Question Id : 89951414636 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Name the vitamin involved in visual cycle

1. Vitamin A
2. Vitamin B
3. Vitamin C
4. Vitamin D

Options :

89951457107. 1
89951457108. 2
89951457109. 3
89951457110. 4

Question Number : 9 Question Id : 89951414637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Name the vitamin which regulate the plasma concentration of calcium and phosphate.

1. Vitamin A
2. Vitamin D
3. Vitamin E
4. Vitamin K

Options :

89951457111. 1
89951457112. 2
89951457113. 3
89951457114. 4

Question Number : 10 Question Id : 89951414638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Name the vitamin involved in Scurvy?

1. Vitamin A
2. Vitamin D
3. Vitamin E
4. Vitamin C

Options :

89951457115. 1

89951457116. 2

89951457117. 3

89951457118. 4

Question Number : 11 Question Id : 89951414639 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Apoenzymes are chemically

1. Carbohydrates
2. Fatty acids
3. Proteins
4. Vitamins

Options :

89951457119. 1

89951457120. 2

89951457121. 3

89951457122. 4

Question Number : 12 Question Id : 89951414640 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Serum ceruloplasmin concentration is generally lowest in

1. Hodgkin's disease
2. Wilson's disease
3. Hepatitis
4. Pancreatic disease

Options :

89951457123. 1

89951457124. 2

89951457125. 3

89951457126. 4

Question Number : 13 Question Id : 89951414641 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Most enzymes are polymers of

1. Amino acids
2. Hexose sugars
3. Fatty acids
4. Carboxylic acids

Options :

89951457127. 1
89951457128. 2
89951457129. 3
89951457130. 4

Question Number : 14 Question Id : 89951414642 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The general mechanism that an enzyme acts is by

1. Reducing the energy of activation
2. Increasing the energy of activation
3. Increasing the pH
4. Reducing the pH

Options :

89951457131. 1
89951457132. 2
89951457133. 3
89951457134. 4

Question Number : 15 Question Id : 89951414643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following enzyme is more specific to prostate cancer?

1. Alkaline phosphatase
2. Acid phosphatase
3. Alanine transaminase
4. Aspartate transaminase

Options :

- 89951457135. 1
- 89951457136. 2
- 89951457137. 3
- 89951457138. 4

Question Number : 16 Question Id : 89951414644 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following factors affects the activity of an enzyme?

- 1. pH
- 2. Temperature
- 3. Substrate concentration
- 4. All of the above

Options :

- 89951457139. 1
- 89951457140. 2
- 89951457141. 3
- 89951457142. 4

Question Number : 17 Question Id : 89951414645 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following statement(s) is/are correct?

- 1. Enzyme is a biocatalyst
- 2. Enzyme increases the rate of reaction
- 3. Enzyme decreases the activation energy of the reaction
- 4. All of the above

Options :

- 89951457143. 1
- 89951457144. 2
- 89951457145. 3
- 89951457146. 4

Question Number : 18 Question Id : 89951414646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The amount of enzyme activity that catalyses the conversion of one micromole of substrate per minute is called

1. One kat
2. One IU
3. One μ kat
4. One mkat

Options :

89951457147. 1
89951457148. 2
89951457149. 3
89951457150. 4

Question Number : 19 Question Id : 89951414647 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is an example of secreted enzyme?

1. α -amylase
2. Lactate dehydrogenase
3. Alkaline phosphatase
4. All of the above

Options :

89951457151. 1
89951457152. 2
89951457153. 3
89951457154. 4

Question Number : 20 Question Id : 89951414648 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Enzyme that differ in amino acid sequence but catalyze the same reaction are known as

1. Co-factors
2. Coenzymes
3. Isoenzymes
4. Apoenzymes

Options :

89951457155. 1

89951457156. 2

89951457157. 3

89951457158. 4

Question Number : 21 Question Id : 89951414649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A substance intentionally added to preserve flavour and improve taste is called

1. Food additive
2. Food contaminant
3. Food adulterant
4. Food intoxicant

Options :

89951457159. 1

89951457160. 2

89951457161. 3

89951457162. 4

Question Number : 22 Question Id : 89951414650 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Preservative that prevent the growth of microbes in foods is known as

1. Bleaching agent
2. Emulsifier
3. Anti-microbial agent
4. Stabiliser

Options :

89951457163. 1
89951457164. 2
89951457165. 3
89951457166. 4

Question Number : 23 Question Id : 89951414651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following food additive prevent food from turning rancid or brown?

1. Emulsifier
2. Antioxidant
3. Stabiliser
4. Anti-microbial agent

Options :

89951457167. 1
89951457168. 2
89951457169. 3
89951457170. 4

Question Number : 24 Question Id : 89951414652 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Vitamin C is an example of

1. Antioxidant
2. Thickener
3. Chelating agent
4. Emulsifier

Options :

89951457171. 1
89951457172. 2
89951457173. 3
89951457174. 4

Question Number : 25 Question Id : 89951414653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The enzyme which turns surfaces of cut apples and potatoes brown is known as

1. Phenolase
2. Dehydrogenase
3. Kinase
4. Transaminase

Options :

89951457175. 1
89951457176. 2
89951457177. 3
89951457178. 4

Question Number : 26 Question Id : 89951414654 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following helps in maintaining/controlling the acidic/alkaline changes during food processing and hence maintain flavour and stability?

1. Anti-caking agent
2. Sequestrant
3. Buffering agent
4. Stabiliser

Options :

89951457179. 1
89951457180. 2
89951457181. 3
89951457182. 4

Question Number : 27 Question Id : 89951414655 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Additives that are intentionally added to foods for a specific purpose are known as

1. Indirect additives
2. Direct additives
3. Nutrient additives
4. Mixed additives

Options :

89951457183. 1

89951457184. 2

89951457185. 3

89951457186. 4

Question Number : 28 Question Id : 89951414656 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Additives that become part of the food in trace amounts due to its packaging, storage or other handling are known as

1. Direct additives
2. Mixed additives
3. Nutrient additives
4. Indirect additives

Options :

89951457187. 1

89951457188. 2

89951457189. 3

89951457190. 4

Question Number : 29 Question Id : 89951414657 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is not an antioxidant?

1. Vitamin C
2. Vitamin E
3. BHA (Butylated hydroxyl anisole)
4. MSG (Monosodium glutamate)

Options :

89951457191. 1
89951457192. 2
89951457193. 3
89951457194. 4

Question Number : 30 Question Id : 89951414658 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is a flavour enhancer?

1. Tartaric acid
2. Vitamin C
3. MSG (Monosodium glutamate)
4. Lecithin

Options :

89951457195. 1
89951457196. 2
89951457197. 3
89951457198. 4

Question Number : 31 Question Id : 89951414659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The food component present in sugar is

1. Carbohydrate
2. Protein
3. Fats
4. Vitamin

Options :

89951457199. 1
89951457200. 2
89951457201. 3
89951457202. 4

**Question Number : 32 Question Id : 89951414660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a macronutrient?

1. Protein
2. Carbohydrate
3. Vitamin
4. Fat

Options :

89951457203. 1
89951457204. 2
89951457205. 3
89951457206. 4

**Question Number : 33 Question Id : 89951414661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

The building blocks of protein are

1. Fatty acids
2. Amino acids
3. Sugars
4. None of the above

Options :

89951457207. 1
89951457208. 2
89951457209. 3
89951457210. 4

Question Number : 34 Question Id : 89951414662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Saturated fatty acids are found in

1. Solid fats
2. Oils
3. Both 1 and 2
4. None of the above

Options :

89951457211. 1

89951457212. 2

89951457213. 3

89951457214. 4

Question Number : 35 Question Id : 89951414663 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a fat-soluble vitamin?

1. Vitamin A
2. Vitamin B
3. Vitamin D
4. Vitamin E

Options :

89951457215. 1

89951457216. 2

89951457217. 3

89951457218. 4

Question Number : 36 Question Id : 89951414664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What fraction of the body weight is constituted by water?

1. One-half
2. One-third
3. Two-third
4. One-fourth

Options :

- 89951457219. 1
- 89951457220. 2
- 89951457221. 3
- 89951457222. 4

Question Number : 37 Question Id : 89951414665 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is/are important function(s) of food?

- 1. Social function
- 2. Psychological Function
- 3. Physiological Function
- 4. All of the above

Options :

- 89951457223. 1
- 89951457224. 2
- 89951457225. 3
- 89951457226. 4

Question Number : 38 Question Id : 89951414666 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The state of our body as a result of the foods consumed and their use by the body is known as

- 1. Body status
- 2. Physical status
- 3. Physiological status
- 4. Nutritional status

Options :

- 89951457227. 1
- 89951457228. 2
- 89951457229. 3
- 89951457230. 4

Question Number : 39 Question Id : 89951414667 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is not a characteristic of good nutritional status?

1. Good natured personality
2. Poor appetite
3. Clear eyes
4. Healthy skin

Options :

89951457231. 1
89951457232. 2
89951457233. 3
89951457234. 4

Question Number : 40 Question Id : 89951414668 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Insufficient supply of essential nutrients leads to

1. Overnutrition
2. Balanced nutrition
3. Undernutrition
4. None of the above

Options :

89951457235. 1
89951457236. 2
89951457237. 3
89951457238. 4

Question Number : 41 Question Id : 89951414669 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Insensible water loss is water lost via

1. skin evaporation and in air from the lungs
2. urine
3. osmoregulation
4. vomiting or diarrhoea

Options :

89951457239. 1
89951457240. 2
89951457241. 3
89951457242. 4

Question Number : 42 Question Id : 89951414670 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The largest amount of water comes into the body via

1. Metabolism
2. Foods
3. Liquids
4. humidified air

Options :

89951457243. 1
89951457244. 2
89951457245. 3
89951457246. 4

Question Number : 43 Question Id : 89951414671 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which part of the alimentary canal absorbs most water from food?

1. Mouth
2. Stomach
3. Small intestine
4. Large intestine

Options :

89951457247. 1
89951457248. 2
89951457249. 3
89951457250. 4

Question Number : 44 Question Id : 89951414672 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which enzyme initiates the process of protein digestion?

1. Trypsin
2. Elastase
3. Peptidase
4. Pepsin

Options :

89951457251. 1
89951457252. 2
89951457253. 3
89951457254. 4

Question Number : 45 Question Id : 89951414673 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one is NOT a pancreatic enzyme?

1. Pepsin
2. Chymotrypsin
3. Carboxypeptidase
4. Proelastase

Options :

89951457255. 1
89951457256. 2
89951457257. 3
89951457258. 4

Question Number : 46 Question Id : 89951414674 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The transportation of proteins occurs by

1. Facilitated diffusion
2. Sodium co-transport mechanism
3. Special carrier proteins
4. Active transport

Options :

89951457259. 1

89951457260. 2

89951457261. 3

89951457262. 4

Question Number : 47 Question Id : 89951414675 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How much is the average daily intake of water by a person?

1. 0.5 litre
2. 1.0 litre
3. 2.5 litre
4. 5.0 litre

Options :

89951457263. 1

89951457264. 2

89951457265. 3

89951457266. 4

Question Number : 48 Question Id : 89951414676 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the percentage of water in the total body weight?

1. 70
2. 80
3. 50
4. 60

Options :

- 89951457267. 1
- 89951457268. 2
- 89951457269. 3
- 89951457270. 4

Question Number : 49 Question Id : 89951414677 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Pepsin digests proteins into

- 1. Proteoses
- 2. Peptones
- 3. Polypeptides
- 4. All of the above

Options :

- 89951457271. 1
- 89951457272. 2
- 89951457273. 3
- 89951457274. 4

Question Number : 50 Question Id : 89951414678 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What is the enzyme which acts on fats?

- 1. Peptidase
- 2. Lipase
- 3. Chymotrypsin
- 4. Pepsin

Options :

- 89951457275. 1
- 89951457276. 2
- 89951457277. 3
- 89951457278. 4

Question Number : 51 Question Id : 89951414679 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Salivary amylase is active in which of the following parts of the digestive system?

1. Mouth
2. Stomach
3. Small intestine
4. Liver

Options :

89951457279. 1
89951457280. 2
89951457281. 3
89951457282. 4

Question Number : 52 Question Id : 89951414680 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What type of reaction causes the formation of two monosaccharides from a disaccharide molecule?

1. Decarboxylation
2. Deamination
3. Dehydration
4. Hydration

Options :

89951457283. 1
89951457284. 2
89951457285. 3
89951457286. 4

Question Number : 53 Question Id : 89951414681 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

A pulpy mixture of food and gastric juices produced in the stomach, from which it passes into the small intestine.

1. Amylase
2. Peristalsis
3. Chyme
4. Bolus

Options :

89951457287. 1
89951457288. 2
89951457289. 3
89951457290. 4

Question Number : 54 Question Id : 89951414682 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Clinical manifestation of lactose intolerance include

1. abdominal cramps
2. diarrhoea
3. flatulence upon ingestion of dairy products
4. All of the above

Options :

89951457291. 1
89951457292. 2
89951457293. 3
89951457294. 4

Question Number : 55 Question Id : 89951414683 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Pancreatic juice contains

1. Pepsin
2. Chymotrypsinogen
3. Amylase
4. Cholecystokinin

Options :

- 89951457295. 1
- 89951457296. 2
- 89951457297. 3
- 89951457298. 4

Question Number : 56 Question Id : 89951414684 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Where does the digestion of starch and disaccharides occur?

- 1. Mouth
- 2. Stomach
- 3. Small intestine
- 4. Large intestine

Options :

- 89951457299. 1
- 89951457300. 2
- 89951457301. 3
- 89951457302. 4

Question Number : 57 Question Id : 89951414685 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one is not an intestinal epithelial enzyme?

- 1. Lactase
- 2. Sucrose
- 3. Maltase
- 4. Amylase

Options :

- 89951457303. 1
- 89951457304. 2
- 89951457305. 3
- 89951457306. 4

Question Number : 58 Question Id : 89951414686 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Sucrose is digested in the intestine into

1. One molecule of fructose and one molecule of glucose
2. Two molecules of fructose
3. Two molecules of glucose
4. Two molecules of glucose and two molecules of fructose

Options :

89951457307. 1
89951457308. 2
89951457309. 3
89951457310. 4

Question Number : 59 Question Id : 89951414687 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The most abundant monosaccharide ready for absorption is

1. Fructose
2. Glucose
3. Galactose
4. Both 1 and 2

Options :

89951457311. 1
89951457312. 2
89951457313. 3
89951457314. 4

Question Number : 60 Question Id : 89951414688 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

What is the chemical composition of the fat in our diet?

1. 3 fatty acid molecules and 1 molecule of glycerol
2. Only fatty acid
3. Only glycerol
4. 1 fatty acid molecule and 3 molecules of glycerol

Options :

89951457315. 1

89951457316. 2

89951457317. 3

89951457318. 4

Question Number : 61 Question Id : 89951414689 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The energy obtained from consumption of foodstuffs are mostly utilised for maintaining which of the following processes of the body?

1. The Basal Metabolic Rate (BMR)
2. Specific Dynamic Activity (SDA)
3. Physical activities
4. All of the above

Options :

89951457319. 1

89951457320. 2

89951457321. 3

89951457322. 4

Question Number : 62 Question Id : 89951414690 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The food we eat or drink gives us energy. But there are also few foodstuffs which are required for body functions but provide no energy. Which of the following foodstuffs do not provide energy?

1. Mineral
2. Water
3. Vitamin
4. All of the above

Options :

89951457323. 1
89951457324. 2
89951457325. 3
89951457326. 4

Question Number : 63 Question Id : 89951414691 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which is the correct definition of one calorie?

1. One calorie is the amount of heat required to raise the temperature of one kilogram of water by 1°C
2. One calorie is the amount of heat required to raise the temperature of one gram of water by 10°C
3. One calorie is the amount of heat required to raise the temperature of one gram of water by 1°C
4. One calorie is the amount of heat required to raise the temperature of one gram of water by 100°C

Options :

89951457327. 1
89951457328. 2
89951457329. 3
89951457330. 4

Question Number : 64 Question Id : 89951414692 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The value of Respiratory Quotient (R.Q.) provide us which of the following knowledge?

1. Number of ATP utilised
2. Type of substrate oxidised
3. Number of products forms
4. None of the above

Options :

89951457331. 1
89951457332. 2
89951457333. 3
89951457334. 4

Question Number : 65 Question Id : 89951414693 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following sequence is correct regarding their liberated energy values per 1gram of foodstuff (kcal/g)?

1. Carbohydrate < fat < protein < alcohol
2. Carbohydrate < fat > protein < alcohol
3. Carbohydrate = protein < fat > alcohol
4. Carbohydrate = fat < protein > alcohol

Options :

89951457335. 1
89951457336. 2
89951457337. 3
89951457338. 4

Question Number : 66 Question Id : 89951414694 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following foodstuffs provides the highest Respiratory Quotient (R.Q.)?

1. Carbohydrate
2. Fat
3. Protein
4. Mixed Diet

Options :

- 89951457339. 1
- 89951457340. 2
- 89951457341. 3
- 89951457342. 4

Question Number : 67 Question Id : 89951414695 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The thermic effect of food refers to

- 1. The energy that the body must expend to digest and assimilate food
- 2. The energy which is stored in the body
- 3. The energy released during cellular respiration
- 4. All of the above

Options :

- 89951457343. 1
- 89951457344. 2
- 89951457345. 3
- 89951457346. 4

Question Number : 68 Question Id : 89951414696 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What is Basal metabolic rate (BMR)?

- 1. It is the minimum amount of energy required by the body to maintain life at complete physical and mental rest in the post-absorptive state (2 hours after the last meal).
- 2. It is the minimum amount of energy required by the body to maintain life at complete physical and mental rest in the post-absorptive state (12 hours after the last meal).
- 3. It is the minimum amount of energy required by the body to maintain life at complete physical and mental rest in the post-absorptive state (immediately after the last meal).
- 4. None of the above

Options :

- 89951457347. 1
- 89951457348. 2

89951457349. 3

89951457350. 4

Question Number : 69 Question Id : 89951414697 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following factors effect BMR?

1. Sex
2. Environment
3. Age
4. All of the above

Options :

89951457351. 1

89951457352. 2

89951457353. 3

89951457354. 4

Question Number : 70 Question Id : 89951414698 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What is Lean body mass (LBM)?

1. LBM is a component of body composition which can be calculated by adding body fat weight and total body weight.
2. LBM is a component of body composition which is equal to the total body weight.
3. LBM is a component of body composition which can be calculated by subtracting total body weight from body fat weight.
4. None of the above

Options :

89951457355. 1

89951457356. 2

89951457357. 3

89951457358. 4

Question Number : 71 Question Id : 89951414699 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many isoforms or isoenzymes are there for Lactate dehydrogenase (LDH)

1. 2
2. 3
3. 5
4. 7

Options :

89951457359. 1
89951457360. 2
89951457361. 3
89951457362. 4

Question Number : 72 Question Id : 89951414700 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the sub unit constitution of Lactate dehydrogenase, LDH4?

1. HM3
2. HM2
3. HM1
4. HM

Options :

89951457363. 1
89951457364. 2
89951457365. 3
89951457366. 4

Question Number : 73 Question Id : 89951414701 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which is the correct electrophoretic pattern of LDH isoenzymes?

1. Cathode (-) LDH1 LDH2 LDH3 LDH4 LDH5 (+) Anode
2. Cathode (-) LDH3 LDH4 LDH5 LDH2 LDH1 (+) Anode
3. Cathode (-) LDH5 LDH4 LDH3 LDH2 LDH1 (+) Anode
4. None of the above

Options :

89951457367. 1

89951457368. 2

89951457369. 3

89951457370. 4

Question Number : 74 Question Id : 89951414702 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In healthy individuals, which of the following is correct?

1. activity of LDH1 is higher than LDH2 in serum
2. activity of LDH2 is higher than LDH1 in serum
3. LDH1 and LDH2 in serum are inactive
4. activity of LDH2 and LDH1 in serum are same

Options :

89951457371. 1

89951457372. 2

89951457373. 3

89951457374. 4

Question Number : 75 Question Id : 89951414703 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The flipped pattern of LDH characteristic to myocardial infarction is

1. sudden release of LDH1 in the blood stream
2. sudden release of LDH2 in the blood stream
3. sudden release of LDH4 in the blood stream
4. sudden release of LDH5 in the blood stream

Options :

89951457375. 1

89951457376. 2

89951457377. 3

89951457378. 4

Question Number : 76 Question Id : 89951414704 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which is the cofactor required by Creatine kinase (CK)?

1. Mn^{2+}
2. Fe^{2+}
3. Mg^{2+}
4. None of the above

Options :

89951457379. 1

89951457380. 2

89951457381. 3

89951457382. 4

Question Number : 77 Question Id : 89951414705 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

How many isoenzymes are there for Creatine kinase (CK)?

1. 2
2. 3
3. 5
4. 7

Options :

89951457383. 1

89951457384. 2

89951457385. 3

89951457386. 4

Question Number : 78 Question Id : 89951414706 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What is the tissue of origin for the CK1 isoenzyme of CK?

1. Liver
2. Skeletal muscle
3. Brain
4. All of the above

Options :

89951457387. 1
89951457388. 2
89951457389. 3
89951457390. 4

Question Number : 79 Question Id : 89951414707 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following statements is correct?

1. The level of CK2 increases in the serum after myocardial infarction, within the first 6-18 hr
2. The level of CK1 increases in the serum after myocardial infarction, within the first 6-18 hr
3. The level of CK3 increases in the serum after myocardial infarction, within the first 6-18 hr
4. The levels of CK1, CK2 and CK3 increase in the serum after myocardial infarction, within the first 6-18 hr

Options :

89951457391. 1
89951457392. 2
89951457393. 3
89951457394. 4

Question Number : 80 Question Id : 89951414708 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the isoenzymes of Creatine Kinase (CK) increases its level in serum during muscular dystrophies?

1. CK1
2. CK2
3. CK3
4. All of the above

Options :

89951457395. 1

89951457396. 2

89951457397. 3

89951457398. 4

Question Number : 81 Question Id : 89951414709 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which is a cofactor required for phenylalanine hydroxylase?

1. Tetrahydrobiopterin (BH4)
2. Tetrahydrofolate
3. Pyridoxal phosphate
4. All of the above

Options :

89951457399. 1

89951457400. 2

89951457401. 3

89951457402. 4

Question Number : 82 Question Id : 89951414710 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following compounds are found in both the blood and the urine of a PKU patient?

1. Phenylalanine
2. Phenylpyruvic acid and Phenylacetate
3. Phenyllactic acid
4. All of the above

Options :

89951457403. 1
89951457404. 2
89951457405. 3
89951457406. 4

Question Number : 83 Question Id : 89951414711 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The enzyme that is absent in the metabolic disorder phenylketonuria (PKU) is

1. Phenylalanine decarboxylase
2. Ornithine translocase
3. Phenylalanine hydroxylase
4. None of the above

Options :

89951457407. 1
89951457408. 2
89951457409. 3
89951457410. 4

Question Number : 84 Question Id : 89951414712 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

An increased level of serum uric acid concentrations above the normal range is known as

1. Hyperuremia
2. Hyperuricemia
3. Hyperuricia
4. None of the above

Options :

89951457411. 1
89951457412. 2
89951457413. 3
89951457414. 4

Question Number : 85 Question Id : 89951414713 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

An elevated plasma uric acid concentration is found in disorders like

1. Gout
2. Lesch Nyhan syndrome
3. Both 1 and 2
4. None of the above

Options :

89951457415. 1
89951457416. 2
89951457417. 3
89951457418. 4

Question Number : 86 Question Id : 89951414714 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Clinical manifestation of Gout includes

1. Hyperuricemia
2. Deposition of crystals known as tophi in tissue surrounding the joint
3. susceptibility to the development of renal calculi
4. All of the above

Options :

- 89951457419. 1
- 89951457420. 2
- 89951457421. 3
- 89951457422. 4

Question Number : 87 Question Id : 89951414715 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is the most likely site for acute mono articular gouty arthritis?

- 1. Ears
- 2. Heel
- 3. First metatarsophalangeal joint
- 4. None of the above

Options :

- 89951457423. 1
- 89951457424. 2
- 89951457425. 3
- 89951457426. 4

Question Number : 88 Question Id : 89951414716 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following drugs are used in the treatment of Gout?

- 1. Allopurinol
- 2. Colchicine
- 3. NSAIDs
- 4. All of the above

Options :

- 89951457427. 1
- 89951457428. 2
- 89951457429. 3
- 89951457430. 4

Question Number : 89 Question Id : 89951414717 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which is an analogue of hypoxanthine?

1. Allopurinol
2. Uric Acid
3. Xanthine
4. None of the above

Options :

89951457431. 1
89951457432. 2
89951457433. 3
89951457434. 4

Question Number : 90 Question Id : 89951414718 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

A nonpurine inhibitor of xanthine oxidase is

1. Allopurinol
2. Febuxostat
3. Both 1 and 2
4. None of the above

Options :

89951457435. 1
89951457436. 2
89951457437. 3
89951457438. 4

Question Number : 91 Question Id : 89951414719 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Routinely performed clinical chemistry tests include

1. Tests for electrolytes
2. Hormone analysis
3. Test for glucose
4. Both 1 and 3

Options :

89951457439. 1
89951457440. 2
89951457441. 3
89951457442. 4

**Question Number : 92 Question Id : 89951414720 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

Thyroid hormone analysis includes the test for

1. T3, T4 and TRH
2. T2, T4 and TSH
3. T3, T4 and TSH
4. Both 1 and 3

Options :

89951457443. 1
89951457444. 2
89951457445. 3
89951457446. 4

**Question Number : 93 Question Id : 89951414721 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

What is Hyperammonemia?

1. Elevated blood ammonia level
2. Elevated urine ammonia level
3. Both 1 and 2
4. None of the above

Options :

89951457447. 1
89951457448. 2
89951457449. 3
89951457450. 4

Question Number : 94 Question Id : 89951414722 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

D-Dimer is a soluble protein which is formed from

1. Fibrinopeptides by cleaving the thrombin A and B
2. Thrombin by cleaving the fibrinopeptides A and B
3. Thrombus by cleaving the fibrinopeptides A and B
4. None of the above

Options :

89951457451. 1
89951457452. 2
89951457453. 3
89951457454. 4

Question Number : 95 Question Id : 89951414723 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

D-Dimer is unique test because they are the breakdown products of a fibrin mesh that has been stabilised by

1. Factor XIII
2. Factor X
3. Factor III
4. All of the above

Options :

89951457455. 1
89951457456. 2
89951457457. 3
89951457458. 4

Question Number : 96 Question Id : 89951414724 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

D-Dimer test is a blood test performed to diagnose

1. Diarrhoea
2. Thrombosis
3. Dysentery
4. None of the above

Options :

89951457459. 1
89951457460. 2
89951457461. 3
89951457462. 4

Question Number : 97 Question Id : 89951414725 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Elevation of hCG concentrations in blood are seen in

1. Pregnancy
2. Germ line tumours and tumours of placenta
3. Only in pregnancy
4. Both 1 and 2

Options :

89951457463. 1
89951457464. 2
89951457465. 3
89951457466. 4

Question Number : 98 Question Id : 89951414726 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

dsDNA antibody tests are done for the diagnosis of

1. Systemic lupus erythrometosis (SLE)
2. Sphingolipidosis
3. Both 1 and 2
4. None of the above

Options :

89951457467. 1
89951457468. 2
89951457469. 3
89951457470. 4

Question Number : 99 Question Id : 89951414727 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which is an emergency test that helps diagnose a heart attack?

1. AST test
2. Troponin I or T
3. hCG
4. dsDNA test

Options :

89951457471. 1
89951457472. 2
89951457473. 3
89951457474. 4

Question Number : 100 Question Id : 89951414728 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which is a cardiac biomarker?

1. Troponin
2. CK-MB
3. Myoglobin
4. All of the above

Options :

89951457475. 1

89951457476. 2

89951457477. 3

89951457478. 4