

University of Health Sciences, acorn

TEST ~ 2016

0G UF Or F.Sc, and Non-F.Sc, Students

Time Allowed: 150 minutes

Total MCQs:220 og Max, Marks: 1100

Instructions:

1, Read the instructions on the MCQs Response Form carefully,

fi. Choose the Single Best Answer for each question,

li, Candidates are strictly prohibited from giving any identification mark except

Roll No. & Signature in the specified columns only,

COMPULSORY QUESTION FOR IDENTIFICATION

QD, What Is the color of your Question Paper?

A) White, () Pink,

B) Blue. D) Green,

Ans: Colour of your Question Paper Is Pink,

Fill the Clrcia Corresponding to Letter 'C'?

agalnst ?IO? in your MCQ response form

(Exactly as shown In the diagram),

BIOLOGY

Q.133 Random, uncontrolled activity of somo cells In the brain leading to chaotle activity In both sensory and motor nerves causes patients of to sco and hear different strango things,

A) Epsopsy C) Auhcimer's Disease

0) Pastinson?s Oscaso 0) Huntington's Disesso

Q.134 Part of hind brain responsible for the balonce and equillibslum of body #3 called:

A) Medal cr ee

ray

0) Cercbctum

Q.135 anterior pituitary gland

A) Estrogen

B) Gonadotropin releasing hormone

C) Hypothalamus increases secretion of:

Q.136

C) Testosterone

D) Spermatogonium

Q.137 Transmission of *Neisseria gonorrhoea* is best described by which one of the following?

A) Oro-fecal Route C) Vector Borne

D) Unsafe Sex B) Droplet Infection

Q.138 Syphilis is caused by:

A) Spirochete C) Water blooms

D) Fungus B) Cyanobacteria

Q.139 AIDS is caused by:

A) Bacteria C) Fungus

D) Virus B) Algae

Q.140 Sacrum is protected and enclosed in

A) Lumbar vertebrae C) Vertebral column

D) Coccyx B) Sacrum

Q.141 Longest bone in the human skeleton is:

A) Ulna C) Tibia

D) Fibula B) Femur

Q.142 Hips and shoulder joints are examples of:

A) Hinge Joints C) Synovial Joints

D) Ball and Socket joints B) Cartilaginous Joints

Q.143 In pelvic region of human body, sacrum is formed by the fusion of:

A) 4 vertebrae C) 6 vertebrae

0) \$ Vercbran b) 3 Veteran cont

Q.144 Each muscle fibre is surrounded by 8 modified cell ae

A) Sarcolemma Ch

0) Some

Q.145 ml atts USe\$ Increase In blood glucose level,

C) Calcitonin

0) Thyroxine

hts

Q.146 Langerhans produce hormone,

C) Pancreatic Juice

) Insulin 0) Parathyroid

Q.147 The central portion of adrenal gland (Adrenal Medulla) produces\_??\_?hormone.

A) Aldosterone C) Androgen

b) Epinephrine 0) Corticosterone

Q.148 hormones are called fight and flight hormones as they prepare an organism to face stressful situation,

A) Adrenaline, Adrenaline C) Cortisol, Oxytocin

0) Epinephrine, Nor-epinephrine 0) Thyroxine, Nor-epinephrine

Q.149 D-cells release antibodies in blood plasma, tissue fluid and lymph, This kind of immune response

is called:

A) Cell Mediated Response C) Antigen Response

0) Humoral Response 0) Compound Response

Q.150 The type of immunity in which antibodies are passed from one individual to another is called:

A) Passive Immunity C) Natural Active Immunity

0) Artificial Active Immunity 0) Humoral Immunity

Q.151 To combat the active infections of tetanus, rabies and snakes the method of

Immunization is used:

A) Acti C) Ate Aus

0) tumoeal 0) Passtia

Q.152 In antibody molecule, two heavy and two light chains are bonded by:

A) Disulphide Bond C) hydrogen Bond

0) Monosulphide bond 0) hydrogen Bond

Q.153 Variable amino acid sequences in antibody molecule are found in

A) Both light chains only C) One heavy and one light

8) Both heavy chains only D) Both heavy and

Q.154 Each consists of 8 light NC: and 4 are

A) Cysteine

0) 10

B) Photosystem of PAM

Q.155 Photosystem has chlorophyll a molecules which absorb maximum light of at

A) 680 nm C) 700 nm

0) 780 nm 0) 800 nm

Q.156 Cyclic flow or C4 cycle

A) ATP and CO<sub>2</sub>; anhydride

0) ATP and NADP

Q.157 Halal: retractor

A) Unsaturated C) Unstable 4-carbon compound

0) Unstable 3-carbon compound

Q.158

A) -OH C) -COOH

0) -NH<sub>2</sub> 0) -SH

Q.159 a naked plasmid or phage DNA is called:

i) naked DNA 0) rDNA

Q.160 The rapid exchange of materials through carrier proteins across the plasma membrane is called:

A) Passive Diffusion C) Endocytosis

B) Active Transport D) Facilitated Diffusion

Q.161 The inner membrane of mitochondria forms extensive infoldings called:

A) Cristae C) Lamellae

B) Ostomy D) Qfids

Q.162 Which one of the following is found in both prokaryotes and eukaryotes?

A) Centrioles B) Mitochondria

C) Endoplasmic Reticulum D) Ribosome

Q.163 The compounds which on hydrolysis yield polyhydroxy aldehydes or ketones as subunits are:

A) Lipids C) Polymers

B) Proteins D) Carbohydrates

Q.164 Which one of the following is the formula structure of D-glucose?

CH<sub>2</sub>OH

A |

1]

OH

165 is an example of

Atay Qing °

B) Keratin D) Cholesterol

Q.166 Waxes are formed by combination of fatty acids with:

A) Alcohol C) Sugar

B) Glycerol D) Citric acid

Q.167 Phospholipid bond is :

A) P-O-(P-O- | | -O-O-

BCP OCP

Q.168 An enzyme required  $Mg^{2+}$  to catalyze the substrate, then  $Mg^{2+}$  is best identified as:

A) Prosthetic group C) Co-enzyme

O) Actuator O) Inhibitor

Q.169

Reversible

Inhibitor

Its reagents include

A) Noncompetitive C) Irreversible

O) Competitive  $^{2+}$  Dinitrogen

Q.170 According to

with enzyme,

A) Induced fit

B) Lock and Key

i

Q.171 Which one of the following factors affects the rate of reaction of pepsin?

A)

Q.172 All viruses reproduce within living organisms only, so they are known as:

A) Obligate intracellular parasites

B) Endoparasites O) Facultative intracellular parasites

Q.173 Many bacteria are motile due to presence of:

Q.174 The deep invagination of cell membrane which helps in cell division, is

A) Fimbriae C) Mesosome

B) Microvilli O) Endospore

Q.175 The yeast that grows in the mucous membrane of mouth or vagina is

A) Candida albicans

B) Saccharomyces cerevisiae

Q.176 Taenia is an endoparasite of human, pig and cattle which belongs to phylum

A) Chidavia C} Anncida

Q) Ascheiminthes D) Platyhelminthes ae m

Q.177 Body of - It Sh inp sx organs

A) Planarly

B)Ascis Kt ;

Q.178 ac ti Nainestnot human ond lg we belongs to phylum

| ~?" ChAscarisumbviocades

D) Fasciola hepatica

Q.179 In radlal symmetry all body parts aro arranged round tho central axls. Radial symmotry represents modo of life.

0) Suesmincd Dp Parasite

Q.180 Pscudo-coclomates have a body cavily but It Is not true coctom, Which one of the following Is Included tn tho group.

A) Planarly C) Earthom

0) Tapeworm D) Ascazls

Q.181 Digestion of starts {n oral cavily duo to tho action of cnzymo present In sallva,

A)Starch ae C) Folly Adds

O)Celume : «Dp Polypeptides

Q.102 Food ontors fram stomach into small intestine through: io

A) Pyloeic Sphincter C) Seminar vahe

B) Cardiac Sphincter D) Disphragm

Q.183 ard tho part of o gastric gland which produce hydrochloric acld,

A) Parietal Cells C) Chid Cells

6) Galt al oe D) 2ymogen Co?s

Q.184 Proteln components of toda ard digested by tho onzymati secretion oft

A)GobeRCels s, QAymagen Ces

0) Parietal Cells D) Oxyntie Cells

Q.185 Digestive System consists of different layers, the Innermost is known as:

A) Submucosa C) Muscularis

B) Mucosa D) Serosa

Q.186 In human the closed sac which surrounds the heart is called

A) Endocardium

B) Myocardium (

Q.187 Chordae tendineae are

A) Cardiac valves C) Pyloric sphincter of stomach

D) Eyelid

valves are the flow of blood from:

A) Right atrium to right ventricle C) Left ventricle to aorta

B) Right ventricle to pulmonary artery D) Left atrium to left ventricle

Q.189 Carboxyhaemoglobin (10-20%) is formed when CO combines with:

A) Amino group of haemoglobin C) N-terminal portion of haemoglobin

D) Iron part of haemoglobin D) Plasma proteins

Q.190 Breathing consists of:

A) Four phases C) One phase

B) Three phases D) Two phases

Q.191 Bowman's capsule continues as an extensively convoluted portion known as:

A) Peritubular capillaries C) Efferent arterioles

D) Proximal convoluted tubule D) Afferent arterioles

Q.192 Restriction endonucleases cleave the

A) Nitrogenous base C) Phosphodiester bond

B) Base sugar D) Hydrogen bond

Q.193 The enzyme which is responsible for the formation of bond between two double stranded

DNA

fragments is:



A) Endonuclease C) Urase

0) Urease D) Helicase

Q.194 The organisms of third trophic level are:

A) Primary consumer C) Tertiary consumer

0) Primary producer D) Secondary consumer

Q.195 The ultimate source of energy in an ecosystem is:

A) Photosynthesis C) Plants (trees)

0) Sun D) Water

Q.196 All food chains and food webs begin with:

A) Producers

B) Herbivores C) Carnivores

; r

is rapid, especially in the initial stages and follows a

predictable pattern. This process is called:

C) Succession

D) Secondary succession

Q.198 The thinning of the ozone layer is caused by:

A) increasing level of nitrogen oxide C) Decreasing level of CFCs

) Decreasing level of O<sub>3</sub>; D) Increasing level of CFCs

Q.199 Which one of the following is considered as strong evidence of evolution?

A) Embryology Record C) Biochemical Record

B) Molecular Record D) Fossil Record

Q.200 Structures found in different species which are believed to have a common evolutionary origin

are called:

A) Homologous C) Vestigial

B) Analogous 0) Fossilized

Q.201 Which one of the following is X-linked trait?

- A) Male pattern baldness C) Karyomphala
- B) Diabetes mellitus D) Erythroblastosis fetalis

Q.202 A character determined by three alleles is:

- A) Human skin colour C) Human eye colour
- B) Human blood group D) Human Rh factor

Q.203 The total number of genes in a population is called:

- A) Gene pool C) Genome
- B) Allele pool D) Genomic library

Q.204 Is the branch of biology used for the identification and interpretation of fossils,

- A) Evolution B) Zoogeography
- C) Paleontology D) Biodiversity
- E) Chloroplast, Microtubules, Peroxisomes F) none

Answer: A

Q.205 Out of the given options, choose the one which shows the structures found only

- A) Vacuole, Chloroplast, Ribosomes C) Chloroplast, Cell Wall, Vacuole

(5 marks)

Q.206 Presence of large central vacuole is the characteristic of:

- A) Prokaryotes C) Fungi
- B) Protists D) Plants

Q.207 The basic structure of plasma membrane is

- A) Proteins
- B) Cholesterol and lipids

Q.208 The organelles that store and process poisons in the liver are

- A) Smooth ER C) Golgi Apparatus
- B) Mitochondria D) Lysosomes

Q.209 The gene for sickle cell anemia is located on chromosome 11,

am C) Potysonty

? Monosomy D) Disomy

Q.210 Which of the following is an example of autosomal non-disjunction?

A) Turner's Syndrome C) Metastasis

B) Jacob's Syndrome D) Down's syndrome

Q.211 Infertility, short height, webbed neck and low hairline are symptoms of syndrome,

A) Turner's C) Edward's

B) Down's D) Patau's

Q.212 The concentration of sodium ions in body fluids is controlled by the hormone:

A) Renin C) Angiotensin

B) Aldosterone D) Ck

Q.213 A hormone released from the posterior pituitary lobe acts to help actively transport water from filtrate

in collecting tubules back to kidney. It is shown as:

A) Renin C) Angiotensin

B) Antidiuretic hormone D) Growth Factor

Q.214 The removal of metabolic waste from the blood is called:

A) Thermoregulation C) Kidney Failure

B) Osmoregulation D) Excretion

Q.215 The highly toxic nitrogenous excretory product is:

A) CO<sub>2</sub>, Creatinine

B) Urea D) Ammonia

Q.216 Humans have a homeostatic thermostat present in a specific portion of the brain that is:

A) Lateral ventricle C) Spinal Cord

B) Thalamus D) Hypothalamus

Q.217 The disease in which death of a small number of cells in the basal ganglia leads to

select and initiate patterns of movement is known as:

A) Fever

B) Alzheimer's Disease

Q.218 A neurological disorder characterized by a malfunction in its symptoms

presented as,

C) Alzheimer's Disease

D) Diabetes

Q.219 Which causes chaotic activity in motor and sensory areas is:

A) Cerebral Palsy

B) Alzheimer's Disease D) Parkinson's Disease

Q.220

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AKKAK

XXXXXXXXXXXX,

A) YOOX C) XOX

B) XOX D) X00KX (X)