

G. C. E A/L Examination November - 2015

Conducted by Field Work Centre, Thondaimanaru In Collaboration with

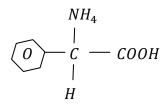
Zonal Department of Education Jaffna.

Grade: - 13 (2016) Biology - I Time: - Two hours

Part - I

Instructions:

- Answer all questions.
- ❖ Mark with tick **(x)** in the answer sheet provided.



- 1) Which of the above molecule denotes the constitutive unit of the followings?
 - (1) Protein

(2) Chitin

(3) Cutin

- (4) Nucleic acid
- (5) Cellulose
- 2) Which of the following is made up with a single nucleotide?
 - (1) NAD

(2) ATP

(3) DNA

(4) tRNA

- (5) FAD
- 3) Which of the following event takes place in the matrix of mitochondria?
 - (1) Oxalo acetate converted in to citric acid.
 - (2) Formation of pyruvate from glucose
 - (3) Oxidative phosphorylation
 - (4) Formation of Acetyl co A from glucose
 - (5) Formation of water molecules
- 4) In which phase the DNA will be doubled in a cell cycle?
 - (1) Anaphase

- (2) Interphase
- (3) Prophase

(4) Metaphase

- (5) Telophase
- 5) Select the **incorrect** statement given below?
 - (1) Primary structure of proteins is synthesized in ribosomes
 - (2) All the protein synthesized will be accumulated by the vesicles of endoplasmic reticulum
 - (3) Formation of covalent bond between amino acids, determines the tertiary structure of the proteins.
 - (4) Non protein components join with protein in the lumen of the endoplasmic reticulum
 - (5) Some proteins enter the nucleus after the protein synthesis.

- 6) Prokaryotes differ from eukaryotes. In which of the following character a prokaryote differs from a eukaryote?
 - (1) Presence of microtubules in flagella
 - (2) Plasma membrane is surrounding the cytoplasm.
 - (3) Chromatin structures found in chromosomes.
 - (4) Presence of 80s ribosome
 - (5) There are no membrane bounded organelles.
- 7) Which of the following character **does not** found in the member of Protista?
 - (1) Presence of unicellular organisms.
 - (2) Flagella or cilia found in the life cycle.
 - (3) Pectin found as a cell wall component that has cell wall
 - (4) Presence of photo autotrophic and heterotrophic nutrition
 - (5) Presence of food storage who hasn't cell wall.
- 8) Which of the following is **not** a function of Golgi complex?
 - (1) Intake of proteins which are synthesized in endoplasmic reticulum.
 - (2) Production of lysosomes
 - (3) Conversion of chemical structures of proteins.
 - (4) Storage of calcium ions.
 - (5) Produce transmission vesicles.
- 9) Which of the following statement regarding lysosome is **incorrect**?
 - (1) Involve in the photolysis of water in light reactions.
 - (2) Digest particles received by phagocytosis
 - (3) Transport residue material out of cell by exocytosis
 - (4) Contain hydrolytic enzymes
 - (5) Digest worn out organelles
- 10) Which of the following is **not** a character of water as a habitat for organisms?
 - (1) Decrease of volume below 4°C
 - (2) Allowing penetration of light
 - (3) High surface tension
 - (4) High specific heat capacity
 - (5) More heat utilized for freezing of water bodies.
- 11) Which of the following statement regarding polysaccharide is correct?
 - (1) Amylo pectin found in starch is made up with 1 4 branch bonds.
 - (2) Inulin found as crystals in the central vacuole
 - (3) Only linear chains found in the structure of glycogen
 - (4) Cellulose is a polymer which has liner chains.
 - (5) Polysaccharides can make osmotic changes in living cells.
- 12) Which of the following statements regarding lipids is correct?
 - (1) Carbon, hydrogen, oxygen and phosphorous generally found in lipids.
 - (2) Ratio between hydrogen and oxygen is 2: 1
 - (3) Most abundant steroid in human is cholesterol
 - (4) Only phospho-ester bond found in phospho-lipid molecule
 - (5) Lipids have more oxygen atoms than carbohydrates.

13) Which of the following is an acceptable statement regarding natural systems of classification? (1) It is easy to join or delete groups. (2) It is developed before the knowledge of evolution (3) Grouping is based on selected unifying characters. (4) Represent true relationships. (5) Aristotle was the first person who classified organisms systemically. 14) An animal found in a marine ecosystem shows the following characters. > Flattened body > Mouth and anus found in the opposite directions of the body. > No arms. In which class the above animal belongs to? (1) Anthozoa (2) Echinoidea (3) Holothuroidea (4) Asteroidea (5) Crinoida 15). Which of the following is not a common character to a virus? (1) Obligate parasites (2) Having hereditary material at centre and surrounded by a protein cupid (3) DNA and RNA found as hereditary materials (4) Do not show metabolism (5) All are minute in structure. 16). In which process Agaricus, which belongs to Basidiomycota reproduce asexually? (1) Fragmentation (2) Asexual spores (3) Conidiospore (4) Zygospores (5) Basidiospore 17) Cartilaginous fishes differ from bony fishes. Which is the character that does not distinguish the above? (1) Skin with ctenoid scales (2) Hetrocercal caudal fin (3) Paired pelvic and pectoral fins. (4) Ventral mouth (5) Endo skeleton made up with cartilage 18) Which of the following statement regarding human digestive system is correct? (1) Lymph nodes found in the mucosa layer of the large intestine (2) Secreting and enterogastrone induce the secretion of pancreatic juice (3) Instrinc factor found in the gastric juice enhance the absorption of Cyanocobalamin (4) Deoxygenated blood leave from the liver through hepatic portal vein. (5) Bruner's gland found in the mucosa layer of duodenum 19) Which of the following is incorrect? (1) Vitamin D is essential for the synthesis of cholesterol (2) Vitamin K is essential for the synthesis of cholesterol (3) Instrinc actor found in the pastery part of duodenum 19) Which one of the fol						
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		=		in human.		
	20) Which one of the f	following enzymes d	oes not act on for	nd components?		
(1) Lactase (2) Pepsin (3) Rennin	(1) Lactase	(2)	Pepsin	=	ennin	

(4) Enterokinase	(5)	Sucrase				
21) Which of the following	regarding hum	an large intestin	e is incorrect ?)		
,	1) Which of the following regarding human large intestine is incorrect?(1) Its proximal end is caecum					
(2) It starts at the end of		estine and lasts t	o the anal cana	al		
(3) Taeniae coli found i			o tiro arrar carr	••		
(4) It aids in the synthe						
(5) Transverse colon is			testine and the	e stomach		
(6) 1141115, 6150 651511 15				0 000		
22) Which of the following	statement is co	rrect regarding l	numan respira	tion?		
(1) Diaphragm is lifted			=			
(2) Mid brain controls	-		· .			
	=	=		ygen from haemoglobin		
	=		=	xygenated and deoxygenated		
blood.	-	•				
(5) Little amount of oxy	gen is conduct	ted through bloo	d plasma.			
23) Which of the following	human respira	tory structure ha	is the least dia	meter?		
(1) Right main bronchu	ıs (2)	Bronchiole		(3) Alveolar duct		
(4) Alveoli	(5)	Secondary broa	nchus.			
24) Reason for the follow of				ed right auricle?		
(1) Mass flow of the blo		-	nts.			
(2) Open and closure of						
(3) Closure of bicuspid	=	alves.				
(4) Pulsation of sinover						
(5) Pressure difference	s between ven	a cava and the ri	ght auricle.			
25) Which of the followin	g is incorrect	regarding the	changes in th	e aortic arches occurred in		
mammals from the basi	_	regarding the	enanges in en	e dorte drenes securred in		
(1) 1st pairs of aortic ar	=	disappear.				
(2) 3 rd pairs of aortic ar	= =	= =				
(3) Disappearance of ri	=					
(4) 2 nd pairs of aortic an	_	-				
(5) Left arch the 4 th pai		= -				
	J					
26) Which of the following	statement reg	garding conducti	ng system of l	human circulatory system is		
incorrect?						
(1) It consists of SA noo	de, AV node and	d Perkinje fibers.				
(2) Stimulation to the h	ieart beat is ori	ginated from SA	node.			
(3) SA node is a special	ized cell mass.					
(4) AV node is a special	lized muscular	mass.				
(5) Wave P is obtained	from the contr	action of SA node	e in the ECG			
27) Which of the following	animal contain	s the closed sing	le circulatory s	system?		
(1) Earth worm	(2)	Cockroach		(3) Human		

(4) Toad

(5) Starfish

- 28) Which of the following is correct regarding water potential?
 - (1) Water potential of a cell at incipient plasmolysis is the sum of solute and pressure potentials
 - (2) Gross movement of water take place from the soil solution to the root hair due to the utilization of ATP.
 - (3) Water potential is measured regarding the potential energy of the water molecules.
 - (4) All the solutions contain the water potential values below zero.
 - (5) Atmospheric water potential of atmosphere is greater than that of intercellular spaces of mesophyll cells.
- 29) Which of the following statement is **incorrect**?
 - (1) Adhesive force is lost in the xylem when the air is found.
 - (2) Caparison strips can only be seen in young roots.
 - (3) Transport of sucrose from one sieve tube element to the other is a passive process.
 - (4) Stomata open when K⁺ ion intake from the adjacent epidermal cells
 - (5) Cytokines interact with ethylene and induce the cell division.
- 30) Which of the followings **cannot** be transported in the phloem tissue?
 - a. Sucrose

b. Ca²⁺

c. PO_4^{3-}

d. Abscisic acid.

(1) b and d

(2) a and c

(3) b and c

(4) b and c

- (5) a and b
- 31) In human brain Broca's area found at
 - (1) Frontal lobe
- (2) Pons varolli
- (3) Occipital lobe

- (4) Temporal lobe
- (5) Parietal lobe
- 32) Which of the following **does not** takes place during the conduction in a synapse?
 - (1) Release of acetylcholine
 - (2) Release of calcium ion from vesicle.
 - (3) Acetylcholine combined with receptor molecules
 - (4) Formation of action potential at post synaptic membrane
 - (5) Permeability to ions changes in the membrane when conduction takes place.
- 33) Which of the following statement regarding human brain is correct?
 - (1) There is a very small area found I the cerebral cortex for the lips.
 - (2) Cerebro-spinal fluid is found in the space between the duramatter and the piamatter
 - (3) Mid brain is situated in between the medulla oblongata and the pons varolli.
 - (4) White matter found in the surface of the cerebellum
 - (5) Thalamus combines the sensory information and relay to the higher centers of the brain.
- 34) Which of the following human receptor- function combination is **incorrect**?

Receptor	Function
(1) Cone	Sensitive to low light intensely
(2) Orgam of Corti	Sensitive to vibrations
(3) Free nerve endings	Sensitive to low temperatures.
(4) Ruffni endings	Sensitive to high temperatures.
(5) Pacinian corpuscle	Sensitive the pressure

35)	Which of the following statement	_	_	
	(1) No need of water for the excre			
	(2) The first nitrogen waste form		limals is ammonia.	
	(3) Urea is excreted only by kidne	-	etas in santilasinava fishas	
	(4) Urea is the important nitroger(5) Green glands are the excretor			
	(3) Green gianus are the excretor	y Oig	ans of aquatic crustaceans	
36)	The substance does not reabsorb	pass	sively in proximal convoluted t	cubule?
	(1) HCO ₃	(2)	NH ₄ ⁺	(3) K ⁺
	(4) Cl ⁻	(5)	Urea	
37)	Which of the following can be the	part	of the axial skeleton of the hu	man?
	(1) Sternum	(2)	Scapula	(3) Clavicle
	(4) Humerus	(5)	Femur	
38]	Which of the following statement	rega	arding lumber curvature in th	e human vertebral column is
	incorrect?			
	(1) It is formed after the birth			
	(2) It is convex towards front			
	(3) It is developed when the child		ound 3 - 6 months.	
	(4) It is a type of secondary curva			
	(5) It helps to child to hold and up	righ	t the body	
39)	Which of the following disorder go	ener	ally can be observed in female	after menopause?
	(1) Osteoporosis	(2)	Disc slips	(3) Osteoarthritis
	(4) Renal calculi	(5)	Weakening & nerves	
40]	Which of the following is not a con	mpo	nent of semen?	
	(1) Prostaglandins	(2)	Fructose	(3) Testosterone
	(4) Mucus	(5)	Ascorbic acid	
	Instructions for the questions 41-	50.		

ABD correct	ACD correct	AB correct	CD correct	Any other
				responses
1	2	3	4	5

- 41) Which of the following statement /s is / are **incorrect**?
 - A. Sulphor is found in co enzyme A
 - B. Deficiency to Cl⁻ causes fatigue
 - C. Copper (CU^{++}) induce the alcohol fermentation in plants.
 - D. Deficiency to Mn^{2+} affects the bone development
 - E. Cobalt is the component to Vit. B_{12}

- 42) Which of the following disease /s can be diagnosed by the human blood smear?
 - A. Diabetes mellitus
 - B. Chickengunia
 - C. Filaria
 - D. Malaria
 - E. AIDS
- 43) Character /s found in both Pogonatum and Nephrolepis,
 - A. Gametophyte is photosynthetic
 - B. Gametophytes attach with pseudo roots to the substrates
 - C. Gametophytes are dioecious.
 - D. Diploid stage is dominant in the life cycle
 - E. Sporophyte contains vascular tissues.
- 44) Which of the following /s is / are the early signs of pregnancy?
 - A. Constipation in some female
 - B. Decrease in the frequency in urination in some female.
 - C. Breast tenderness
 - D. Cessation of menstrual cycle
 - E. Enlargement of stomach.
- 45) Which of the following **does not / do not** happen / s due to the parasympathetic nervous system?
 - A. Increase in the urine formation.
 - B. Increase in the secretion of bile.
 - C. Increase in the heart beat
 - D. Increase in the conversion of glycogen into glucose in liver
 - E. Increase in the secretion of saliva
- 46) Which of the following / s is / are acting as an electron acceptor/s in cellular respiration?
 - A. Pyruvate
 - B. Molecular oxygen
 - C. FAD
 - D. Acetaldehyde
 - E. NAD
- 47) Adaptation / Adaptations regarding cross pollination in flowing plants,
 - A. Cleistogamy
 - B. Rotating stigma
 - C. Unisexual flower
 - D. Protandry
 - E. Styles at the same level

- 48) Which is / are the place / places of uriniferous tubule where the reabsorption of water takes place due to the need of body in the presence of ADH?
 - A. Ascending loop of Henle
 - B. Descending loop of Henle
 - C. Distal convoluted tubule
 - D. Collecting duct
 - E. Proximal convoluted tubule
- 49) Which of the following / s contain / s both endo and exoskeleton?
 - A. Mollusca
 - B. Reptilia
 - C. Echinodermata
 - D. Radiolaria
 - E. Arthropoda
- 50) Which of the following / s is / are correct?
 - A. All viruses are obligate parasites
 - B. All fungi are heterotrophs
 - C. All Bactria are heterotrophs
 - D. All microbes are prokaryotes
 - E. All fungi produce non motile reproductive structtures