# **CBSE Living Science Biology 10**

# **Multiple-Choice Questions**

(QUESTION BANK)

#### CHAPTER 1: LIFE PROCESSES – UNIT I: NUTRITION

#### Pick the correct option:

1.	Which of these is not requi	red for photosynthesis?				
	a. Water	b. Oxygen	c.	Sunlight	d.	Carbon dioxide
2.	The mode of nutrition in Cu	<i>iscuta</i> is				
	a. saprophytic.	b. parasitic.	с.	holozoic.	d.	autotrophic.
3.	Paramecium captures food	with the help of				
	a. tentacles.	b. cilia.	с.	teeth.	d.	pseudopodia.
4.	Which raw material is respo	onsible for release of molect	ular	oxygen during photosyn	the	sis?
	a. Carbon dioxide	<b>b.</b> Glucose	c.	Water	d.	Chlorophyll
5.	The cellular energy reserve	in heterotrophs is				
	a. glycogen.	<b>b.</b> starch.	c.	fatty acid.	d.	protein.
6.	The largest gland associated	d with human alimentary ca	nal	is		
	a. adrenal gland.	b. pancreas.	c.	salivary gland.	d.	liver.
7.	Which of the following is m	ainly digested in stomach?				
	a. Carbohydrate	b. Protein	c.	Lipids	d.	Both (a) and (b)
8.	The process by which diges	ted food passes through th	e in	testinal wall into blood s	trea	am is known as
	a. assimilation.	b. absorption.	c.	egestion.	d.	excretion.
9.	Amoeba ingests food by the	e process of				
	a. dialysis.	<b>b.</b> cytokinesis.	c.	phagocytosis.	d.	amoebiasis.
10.	While carrying the starch te	est on leaf, it is essential to	bo	il the leaf in a water bath	ı wi	th alcohol to
	a. remove chlorophyll from	n the leaves.	b.	remove starch from the	lea	ıf.
	c. make the cell more perr	meable to iodine.	d.	stop all chemical reaction	ns	in the cell.
11.	In stomach, hydrochloric ac	id creates an acidic medium	n so	o that		
	a. enzyme trypsin digests t	he protein.	b.	enzyme pepsin digests	the	starch.
	c. enzyme pepsin digests t	he protein.	d.	enzyme trypsin digests f	:he	starch.
12.	Which of the following enzy	mes is present in bile?				
	a. Lipase	b. Trypsin	c.	Pepsin	d.	None of these
13.	In humans the process of c	ligestion begins in the				
	a. mouth.	<b>b.</b> pharynx.	c.	stomach.	d.	small intestine.

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14.	Large intestine in man carr a. absorption.	ies out <b>b.</b> assimilation.	c.	digestion of fat.	d.	digestion of protein.
15.		synthesis takes place in the <b>b.</b> grana of chloroplast.	c.	matrix of mitochondria.	d.	cytoplasm of leaf cell.
16.	What are the end products a. Glucose and ATP	of light reaction of photosy b. Glucose and oxygen			d.	ATP, $H_2$ and $O_2$
17.	The inner lining of stomach a. Mucus	n is protected from harmful b. Pepsin		ect of hydrochloric acid b Trypsin	-	ne of the following. Bile
18.	Which of the following com pancreatic juice?	ponent of our food is diges	ted	by an enzyme which is p	res	ent in saliva as well as in
	a. Lipid	b. Protein	c.	Carbohydrate	d.	Fat
19.	The opening and closing of	f stomatal pores depends up	oon			
	<ul><li>a. temperature.</li><li>c. concentration of oxyger</li></ul>	n in guard cell.		concentration of carbon change in turgidity of th		0
20.	The first enzyme to mix wi	th food in the digestive trac	t is			
	a. pepsin.	b. trypsin.	c.	amylase.	d.	lipase.
21.	<ul><li>Which of the following doe</li><li>a. Conversion of light ener</li><li>c. Photolysis of water</li></ul>	s not occur in photosynthes rgy to chemical energy	b.	Oxidation of carbon dio Absorption of light ener		•
22.	<ul><li>In which of the following g</li><li>a. Yeast, Blue green algae,</li><li>c. <i>Cuscuta</i>, Mushroom, <i>Rhi</i></li></ul>		b.	broken down outside th <i>Amoeba, Paramecium, Eu</i> Yeast, Mushroom, <i>Rhizo</i>	ıgle	na
23.	Emulsification of fat is done	e by				
	a. pepsin enzyme.	<b>b.</b> pancreatic lipase.	c.	intestinal lipase.	d.	bile juice.
24.	The longest part of aliment a. large intestine.	tary canal is <b>b.</b> small intestine.	c.	oesophagus.	d.	stomach.
25.	Pancreatic juice contains er a. carbohydrate and prote c. lipid and protein.			crbohydrate and lipid. carbohydrate, lipid and	pro	otein.
26.	In which form do plants ab a. Atmospheric nitrogen	bsorb nitrogen? b. Urea	c.	Nitrites and nitrates	d.	Uric acid
27.	The exit of faecal matter f a. anal sphincter.	rom our body is regulated b b. rectum.	-	colon.	d.	caecum.
28.	Which type of medium is r a. Acidic	equired for proper functioni b. Alkaline	-	of pancreatic juice? Neutral	d.	Both (a) and (c)
29.	In <i>Amoeba</i> , digestion of foc a. food vacuole.	od takes place in <b>b.</b> cytoplasm.	c.	contractile vacuole.	d.	mitochondria.
30.		yme requires acidic medium b. Pancreatic lipase	1?	Pepsin		Trypsin

## **UNIT II: RESPIRATION**

Pick	the correct option:					
1.	Gaseous exchange in fish t a skin.	akes place through b. tracheae.	c.	gills.	d.	lungs.
2.	Aerobic respiration takes p a. cytoplasm.	lace in the <b>b.</b> mitochondria.	c.	vacuole.	d.	nucleus.
3.	The end products of ferme a. ethanol, CO <sub>2</sub> and 36 AT c. ethanol, CO <sub>2</sub> and 2ATP.	ntation of glucose by yeast o P.	b.	$CO_2$ , $H_2O$ and 36 ATP. lactic acid, $CO_2$ and 2 A	ΓP.	
4.	<ul> <li>b. nasal cavity → pharynx</li> <li>c. larynx → nasal cavity →</li> </ul>	nhalation is → larynx → trachea → bronc → larynx → trachea → bronc pharynx → trachea → bronc chea → alveoli → bronchioles	hi - hio	→ bronchioles.		
5.	Exchange of gases in wood a. stomata.	y stem occurs through b. lenticels.	c.	cork.	d.	epidermis.
6.	Pyruvic acid is converted to a. cytoplasm	lactic acid in the b. mitochondria		of muscle cells. Golgi body	d.	none of these
7.	The energy rich compound a. AMP.	produced during respiratior <b>b.</b> ADP.		ATP.	d.	pyruvate.
8.	The common stage betwee a. reduction.	n aerobic and anaerobic res b. glycolysis.	-	ation is Kreb's cycle.	d.	oxidation.
9.	Which of the following prev a. Diaphragm	vents the collapse of air pass b. Rings of cartilage	_	e? Larynx	d.	Alveoli
10.	Which of the following is no a. Large surface area c. Thick and dry surface	ot a characteristic of respira	b.	y organ? Richly supplied with bloo Thin and delicate surfac		capillaries
11.	Glottis opens on the floor of a. pharynx.	of <b>b.</b> trachea.	c.	diaphragm.	d.	oesophagus.
12.	The biochemical compound a. urea.	that readily combines with <b>b</b> . blood plasma.	-	/gen and distributes it thr haemoglobin.		ghout the human body is insulin.
13.	Residual volume of air in lu a. helps in inhalation. c. helps in exhalation.	Ings		allows continuous gaseous depletes oxygen from lu		
14.	-	overed with epiglottis		•		

15.	<ul> <li>5. Which of the following is correct regarding exhalation?</li> <li>a. Diaphragm is relaxed</li> <li>b. Rib cage lifts up</li> <li>c. Volume of thoracic cavity increases</li> <li>d. Pressure on the lung decreases</li> </ul>					
16.	Which of these are anaerol a. Yeast, <i>Amoeba</i>	bes? b. Yeast, bacteria	c.	Yeast, algae	d.	Yeast, blue green algae
17.	The direction of diffusion of a. environmental condition c. both (a) and (b).	f gases in plants depends u ns.	b.	n requirement of the plar none of these.	ıts.	
18.	The rate of breathing is like a. mango tree.	ely to be higher in b. pigeon.	c.	fish.	d.	man.
19.	The end product of glycoly a. lactic acid.	ysis is <b>b.</b> glucose.	c.	ethanol.	d.	pyruvate.
20.	Exchange of gases during r a. alveoli.	espiration takes place at b. bronchi.	c.	trachea.	d.	nostril.
21.	Painful contraction of muse a) lactose.	cles during heavy physical ex b. ethanol.		ise occur due accumulati pyruvic acid.		of lactic acid.
22.	<ul><li>ii. Gaseous exchange occu</li><li>iii. Haemoglobin has greate</li></ul>	diaphragm is raised during	e th			
23.	When air is blown from mo a. calcium chloride.	buth into a test tube, lime w b. calcium carbonate.		r turns milky due to forn calcium bicarbonate.		on of calcium hydroxide.
24.	Site of glycolysis in cell is a. mitochondria.	b. Golgi body.	c.	cytoplasm.	d.	endoplasmic reticulum.
25.	In which of following organ a. <i>Amoeba</i>	iisms, simple diffusion of ga b. Cockroach		for breathing and respire Paramecium		n does not occur? Bryophyllum

# **UNIT III: TRANSPORTATION**

Pick	the correct option:					
1.	Transport through which of a. Xylem	f the following is bidirection b. Phloem		Cambium	d.	Both (a) and (b)
2.	Which of the following is not a. Sieve tube	ot an element of phloem? b. Tracheids	c.	Companion cell	d.	Parenchyma
3.	Nucleus is absent in a. RBC.	<b>b.</b> sieve tube.	c.	companion cell.	d.	both (a) and (b).
4.	The process of transport of a. transportation.	f food from leaves to other <b>b.</b> transpiration.	-	ts of the plant is known a translocation.		transformation.
5.	Valves are absent in a. capillaries.	b. veins.	c.	arteries.	d.	both (a) and (c).
6.	Instrument used to measur a. manometer.	e blood pressure is b. barometer.	c.	sphygmomanometer.	d.	stethoscope.
7.	Normal systolic to diastolic a. 120/80 mm of mercury. c. 80/120 mm of mercury.			120/180 mm of mercury 180/120 mm of mercury		
8.	Oxygenated blood reaches a. pulmonary vein.	heart through b. pulmonary artery.	c.	vena cava.	d.	aorta.
9.	The exchange of material b a. heart.	between blood and surround <b>b.</b> veins.	-	cells occur at arteries.	d.	capillaries.
10.	Which of the following is not a. Slow transport system c. Not mobile	ot true for plants?		High energy needs Large number of dead o	cells	5
11.	Which of the following is re a. Transpiration pull	esponsible for transport of v b. Root pressure		er in herbaceous plants? Capillary force	d.	All of these
12.	The blood vessel which car a. pulmonary artery.	ries deoxygenated blood to b. pulmonary vein.		gs is aorta.	d.	vena cava.
13.	Which of the following has a. Sparrow	three chambered heart? <b>b.</b> Fish	c.	Crocodile	d.	Frog
14.	<ul> <li>Which of the following state</li> <li>i. It transports food in the</li> <li>ii. It requires energy in the</li> <li>iii. It transports food in the</li> <li>iv. It is a passive process</li> <li>a. i. and iv.</li> <li>b. ii. and iv.</li> <li>c. i. and ii.</li> <li>d. iii. and iv.</li> </ul>	e form of sugar e form of ATP	ing	translocation in plants?		

15.	Which chamber of the hear	rt receives oxygenated blood	l fro	om pulmonary vein?		
	a. Right atrium	<b>b.</b> Left atrium	c.	Right ventricle	d.	Left ventricle
16.	The main function of lymph a. transport digested fat. c. destroy bacteria and for			return extracellular fluid all of these.	ba	ack to blood.
17.		enated and deoxygenated b ated and deoxygenated bloo d animals.		d.		
18.	Deoxygenated blood is pun	nped to all parts of the body	y in			
	a. frog.	b. pigeon.	c.	fish.	d.	man.
19.	Single blood circulation is s	een in				
	a. shark.	b. whale.	c.	bat.	d.	frog.
20	Heart is protosted by a day	uble layered protective cover	ring	called		0
20.	a. pleura.	<b>b.</b> pericardium.	-	meninges.	d	thorax.
			с.	inclinges.	ч.	thorux.
21.	Thrombocyte helps to a. transport oxygen.	<b>b.</b> fight infection.	c.	clot blood.	d.	none of these.
22.	<ul><li>i. Walls of ventricle are th</li><li>ii. Left atrium receives ox</li><li>iii. Right ventricle receives</li></ul>	ements are true for human icker than walls of atrium ygenated blood through puli deoxygenated blood through xygenated blood through ver	mo 1 Vé	nary vein ena cava		
23.	Transpiration helps in					
	a. translocation.	b. transport of water.	c.	photosynthesis.	d.	root pressure.
24.	Walls of arteries are a. thick and elastic.	<b>b.</b> thin and permeable.	c.	thick and inelastic.	d.	thin and impermeable.
25.	The blood leaving the tissu	es become richer in				
	a. oxygen.	b. haemoglobin.	c.	carbon dioxide.	d.	urea.

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## **UNIT IV: EXCRETION**

#### Pick the correct option:

1.	The basic functional unit of a. nephron.	f kidney is <b>b.</b> neuron.	c. nephridia.	d.	cilia.
2.	Bunch of capillaries in the l a. nephric capillaries.	Bowman's capsule is <b>b.</b> Glisson's capsule.	c. glomerulus.	d.	Malpighian capsule.
3.	Which blood vessel contain a. Renal artery	s less nitrogenous waste? b. Renal capillaries	c. Renal vein	d.	Renal arteriole
4.	The process of removing ni a. hydrolysis.	itrogenous waste from the b b. haemolysis.	blood of a person is known c. haemodialysis.		electrolysis.
5.	Which of the following is re a. Water	eabsorbed in the blood duri b. Glucose	ng urine formation? c. Amino acid	d.	All of these
6.	Which one of the following a. Nephric tubule	is not a part of nephron? <b>b.</b> Ureter	c. Bowman's capsule	d.	Both (a) and (c)
7.	<i>Amoeba</i> excretes through a. contractile vacuole.	<b>b.</b> food vacuole.	c. nephridia.	d.	kidney.
8.	The function of kidney is a. excretion.	b. osmoregulation.	c. both (a) and (b).	d.	none of these.
9.	The waste material in plant a. carbon dioxide.	ts is b. oxygen.	c. resins and gums.	d.	all of these.
10.	Plants excrete waste mater a. old xylem.	ials through <b>b.</b> old leaves.	c. stomata and lenticels.	d.	all of these.
11.	The human kidney excretes a. ammonia.	s nitrogenous waste majorly b. amino acid.	in the form of c. uric acid.	d.	urea.
12.	The dialysing solution lack a. glucose.	b. water.	c. urea.	d.	salts.
13.	Plant cell store waste in the a. vacuole.	e b. cytoplasm.	c. lysosome.	d.	chloroplast.
14.	The nephrons discharge the a. ureter.	eir content in the b. urinary bladder.	c. collecting duct.	d.	Bowman's capsule.
15.	Urinary bladder is under a. endocrine	<b>b.</b> nervous	c. hormonal	d.	all of these
16.	Which of the following acts a. Nephric tubule	as dialysis bag in human k b. Glomerulus	idney? c. Collecting duct	d.	Urinary bladder
17.					

d. both (a) and (b).

<ul> <li>18. Which of the following stationary is bean shaped.</li> <li>ii. It has 1000 nephrons.</li> <li>iii. Right kidney is slightly</li> <li>iv. Left kidney is slightly loogen in the set of the</li></ul>	lower than left kidney.	idney are incorrect?	
<b>19.</b> The cup shaped part of ne	ephron is called		
a. glomerulus.	b. Malpighian Body.	c. Bowman's capsule.	d. all of these.
20. Which one of the following	g is not reabsorbed from th	e primary filtrate?	
a. Amino acid	<b>b.</b> Urea	c. Water	d. Glucose
21. Urine is stored in	before they are passe	ed out of the body.	
a. kidney	b. ureter	c. urethra	d. urinary bladder
22. Nephrons are			
a. functional unit of excre	tory system.	<b>b.</b> functional unit of nerv	ous system.
c. functional unit of kidne	ey.	d. none of these.	
23. Name the organs that mal	ke up the excretory system	in humans.	
a. Two kidneys	b. Two ureters	c. Bladder and urethra	d. All of these
24. The principal nitrogenous	excretory compound in hum	nans is synthesized in the	
a. liver.	b. kidney.	c. blood.	d. spleen.
25. The muscular tube which	carries urine from kidney to	urinary bladder is	
a. urethra.	b. ureter.	c. collecting duct.	d. nephric tubule.

# **CHAPTER 2: CONTROL AND COORDINATION**

Pick	the correct option:					
1.	Which of the following hor	mone controls the basal me	tab	olic rate?		
	a. Growth hormone	b. Adrenaline	c.	Thyroxine	d.	Insulin
2.	The plant hormone which j	promotes cell division is				
	a. auxin.	b. cytokinin.	c.	Gibberellin.	d.	abscisic acid.
3.	We suddenly withdraw our	hand when a pin pricks. Th	e re	esponse of this action is		
	a. nerve impulse.	<b>b.</b> muscle contraction.	с.	reflex action.	d.	reflex arc.
4.	Which of the following tissu	ues provide control and coor	rdir	ation in animals?		
	a. Nervous and skeletal co	onnective tissue	b.	Muscular and skeletal co	onn	ective tissue
	c. Muscular and blood cor	nnective tissue	d.	Muscular and nervous t	issu	le
5.	If our hand is accidentally	placed on a hot iron, we qui	ickly	/ pull our hand away. Th	ie h	ot iron represents
	a. stimulus.	b. response.	c.	impulse.	d.	receptor.
6.	Which of the following rece	eptor is located in nose?				
	a. Tango receptor	b. Gustatory receptor	c.	Olfactory receptor	d.	Photoreceptor
7.	Electrical impulse is genera	ted at the par	t of	f neuron.		
	a. axon	b. cyton	c.	nerve ending	d.	dendrite
8.	The nerve which transmits	messages from central nerv	ous	system to muscle is		
	a. motor neuron.	b. relay neuron.	с.	sensory neuron.	d.	afferent neuron.
9.	The junction between two	adjacent neuron is				
	a. neuromuscular junction	. b. nerve junction.	с.	synapse.	d.	sensory junction.
10.	Which part of the brain he	lps in respiration?				
	a. Midbrain	b. Pons	c.	Cerebrum	d.	Cerebellum
11.	The gland which secretes t	he growth hormone is				
	a. adrenal gland.	b. pancreas.	c.	pituitary gland.	d.	hypothalamus.
12.	Main function of cerebrum	is				
	a. thinking.	b. memorising.	c.	balancing and posture.	d.	both (a) and (b).
13.	Which part of the brain co	ntrols the peristaltic moveme	ent	of the alimentary canal?		
	a. Pons	b. Medulla	c.	Cerebrum	d.	Cerebellum
14.	The opening of <i>Dandelion</i> pof	oetals in bright light during c	lay	and closing the petals in	daı	rk at night is an example
	a. phototropism.	b. photonasty.	c.	thigmonasty.	d.	chemotropism.
15.	Movement of sunflower in	accordance with the path of	f Su	in is due to		
	a. chemotropism.	b. geotropism.	c.	phototropism.	d.	hydrotropism.
16.	The growth of tendril in pe	a plant is due to				
	a. phototropism.	b. thigmotropism.	c.	thigmonasty.	d.	photonasty.

17.	The cells of <i>Mimosa</i> leaves change shap a. swelling or shrinking. c. both (a) and (b).	b.	changing the amount of none of these.	water in them.
18.	Cerebellum, medulla and pons are part a. forebrain. b. midbrai		spinal cord.	d. hindbrain.
19.	<ul><li>Which of the following is a cerebral ref</li><li>a. Pulling away hand on touching hot</li><li>c. Change in size of pupil in response</li></ul>	object b.	Knee jerk reflex by tapp Both (b) and (c)	ing under knee
20.	<ul><li>Feedback mechanism</li><li>a. helps in reflex action.</li><li>c. regulates the amount of hormone.</li></ul>		resets the nerve cell. transmits nerve impulse	
21.	Gustatory receptor is present in the a. skin. b. nose.	c.	tongue.	d. ears.
22.	<ul> <li>Which of the following are mismatched</li> <li>i. Ovary - Progesterone</li> <li>ii. Pancreas - Growth hormone</li> <li>iii. Pituitary - Thyroxine</li> <li>iv. Testes - Testosterone</li> <li>a. i. and ii.</li> <li>b. ii. and iv.</li> <li>c. ii. and iii.</li> <li>d. i. and iii.</li> </ul>	l pairs?		
23.	lodine is necessary for the synthesis of a. thyroxine. b. adrenal		insulin.	d. growth hormone.
24.	<ul> <li>Which of the following is incorrect about a. Electrical impulse quickly responde to every of the control of the contr</li></ul>	to stimulus cell of the animal be	ody	
25.	Which of the following is a mixed glanda. Pancreasb. Ovary		Testes	d. All of these
26.	<ul><li>Which of the following statements is in</li><li>a. It is produced in adrenal gland</li><li>b. It controls the metabolism of carbo</li><li>c. It increases the heart beat</li><li>d. It increases the rate of respiration</li></ul>			
27.	Dwarfism is caused due to a. over secretion of hormone produce b. over secretion of hormone produce c. under secretion of hormone produce d. under secretion of hormone produce	d by pituitary gland ed by pancreas.		

- 28. All voluntary actions of the body is controlled by
  - a. cerebrum. b. cerebellum. c. mid brain. d. medulla.
- 29. Which of the following is released at the synaptic cleft?
  - a. Hormones b. Neurotransmitters c. Lymph d. Cerebrospinal fluid
- **30.** Plants bend towards a source of light as a result of
  - i. more growth of cell towards sunlight.
  - ii. more growth of cell away from sunlight.
  - iii. equal distribution of auxin in the stem.
  - iv. unequal distribution of auxin in the stem.
    - a. i. and iii.
    - b. ii. and iv.
    - c. ii. and iii.
    - d. i. and iv.

## **CHAPTER 3: REPRODUCTION IN PLANTS AND ANIMALS**

Pick	the correct option:					
1.	Which is the basic event in a. Making copies of cell or c. Cell division	•		Increase in cell size DNA replication		
2.		errors during copying of DI r the survival of the species	NA			
3.	<i>Leishmania</i> reproduces thro a. multiple fission. c. transverse binary fission	-		longitudinal binary fissic budding.	n.	
4.	Which one of the following a. Kala azar parasite	reproduces by multiple fiss <b>b.</b> Malaria parasite		? Yeast	d.	Bacteria
5.	The organism which reproc a. <i>Spirogyra.</i>	luces by fragmentation is <b>b</b> . <i>Planaria</i> .	c.	Rhizopus.	d.	Hydra.
6.	Which method of vegetative a. Layering	e propagation is used in jas b. Grafting		ne? Cutting	d.	Tissue culture
7.	The ovary releases an egg a a. 10 days.	approximately every b. 14 days.	c.	21 days.	d.	28 days.
8.	Which of the following is a a. AIDS	bacterial sexually transmitte b. Herpes		disease? Syphilis	d.	None of these
9.	After fertilization, the ovule a. fruits.	s of a flower develop into <b>b.</b> seeds.	c.	seedlings.	d.	none of these.
10.	Which one of the following a. Vegetative propagation			clones? Fertilization	d.	Budding
11.	The zygote of maize plant h a. 10	nas 20 chromosomes. How b. 20		ny chromosomes are pres 30		t in its endosperm? 40
12.	The embedding of embryo a. fertilization.	in the wall of uterus is kno <b>b.</b> implantation.		as ovulation.	d.	placentation.
13.	Unisexual flower is produce a. papaya.	ed by b. watermelon.	с.	mustard.	d.	both (a) and (b).
14.	When the seed germinates, a. (i) plumule, (ii) radicle c. (i) cotyledon, (ii) endosp		b.	into root and (ii) (i) radicle, (ii) plumule (i) radicle, (ii) cotyledon		into shoot.
15.	Testes in human males lie a. process of mating. c. easy transfer of sperms		b.	the formation of sperm. all of these.		

16.	The number of chromosom a. mitosis.	nes of all the organisms of a b. meiosis.		rticular species remains c cell division.		stant due to DNA replication.
17.	The two organisms which c a. <i>Paramecium</i> and <i>Hydra</i> . c. <i>Planaria</i> and <i>Leishmania</i> .	an regenerate fully from cut	b.	ody parts are <i>Hydra</i> and <i>Planaria.</i> <i>Plasmodium</i> and <i>Planaria</i>	γ.	
18.	Sexually transmitted diseas a. intra uterine contracepti c. barrier method of contr	ive device.		surgical method of conti oral pills.	ace	eption.
19.	Which of the following ever a. Implantation	nt does occur if ovum remai b. Ovulation		unfertilized? Placentation	d.	Menstruation
20.	Site of fertilization in huma a. uterus.	n being is b. vagina.	c.	Fallopian tube.	d.	cervix.
21.	Site of implantation in hum a. uterus.	an being is b. vagina.	c.	Fallopian tube.	d.	cervix.
22.	<ul> <li>Which of the following are</li> <li>i. Production of sperm</li> <li>ii. Secretion of oestrogen</li> <li>iii. Production of testostero</li> <li>iv. Production of ovum</li> <li>a. i. and ii.</li> <li>b. i. and iv.</li> <li>c. ii. and iv.</li> <li>d. i. and iii.</li> </ul>	not the functions of ovary a	t pı	uberty?		
23.	Nutrition is provided to the a. placenta.	developing embryo throug b. uterus.		oviduct.	d.	amniotic fluid.
24.	Which of the following is in a. Testes are present in sc c. Sperm is produced in th		b.	roductive system? Testes secrete testostero None of these	one	
25.	Accessory gland in male repa. prostate gland.	productive system is <b>b.</b> seminal vesicle.	c.	Cowper's gland.	d.	all of these.
26.	The part of the seed that is a. cotyledons.	s known as the future plant b. seed coat.		germ cells.	d.	embryo.
27.	Along the path of the vas-d a. Prostate glands	leferens the secretions of wh b. Seminal vesicles		n gland provide nutrition Scrotum		he sperms? Urinary bladder
28.	During favourable conditior a. multiple fission.	ns, <i>Amoeba</i> reproduces by <b>b.</b> binary fission.	c.	budding.	d.	fragmentation.
29.	A pair of duct arising from a. scrotum.	testis, which carry sperms a b. vas deferens.		oviduct.	d.	seminal vesicles.
30.	Which of the following repr a. <i>Bryophyllum</i>	oduces by spore formation? b. <i>Hydra</i>	c.	Rhizopus	d.	Leishmania

# **CHAPTER 4: HEREDITY AND EVOLUTION**

Pick	the correct option:					
1.	The genetic constitution of a. phenotype.	an individual organism is kr b. homozygosity.		n as its genotype.	d.	allele.
2.	Indians are genetically the a. chimpanzees.	closest to <b>b.</b> monkeys.	c.	gorillas.	d.	Japanese schoolboys.
3.	<ul><li>a. only parental traits were</li><li>b. only recombinant traits</li><li>c. both parental and record</li></ul>	is in Mendel's dihybrid cross e expressed in $F_2$ generation were expressed in $F_2$ generation mbinant traits were expressed expressed in $F_2$ generation	n. atio ed i	n.		
4.	The characters which can b a. dominant traits.	be observed in an organism b. phenotype.		nown as its genotype.	d.	recessive traits.
5.	Mendel's contribution to ge a. Theory of natural select c. Principle of genetic reco	ion.		Theory of incomplete do Law of independent ass		
6.	The forelimbs of man, cat, a. homologous organs.	bat and whale are b. analogous organs.	c.	connecting links.	d.	phylogenic organs.
7.	Which chromosome is not a. Chromosome 13	in a perfect pair in human r b. X chromosome		es? Y chromosome	d.	Both (b) and (c)
8.	<i>Homo sapiens</i> has genetic r a. Australia.	oots in <b>b.</b> Africa.	c.	Europe.	d.	Asia.
9.	Which of the following is a a. Hair colour	n acquired trait? b. Height	c.	Eye colour	d.	Cut nose
10.	Which one of the following a. Red cabbage	has been produced from w b. Cauliflower		cabbage by artificial selec Kale		n for sterile flower? Kohlrabi
11.	-	nto new varieties like cabba b. reproductive isolation.	-		-	artificial selection.
12.	Which of the following fact a. Genetic drift	or does not lead to speciation <b>b.</b> Sex determination		Natural selection	d.	Geographical isolation
13.	Homologous organs are or a. different functions and c. same function but diffe	different origins.		same function and simil different functions but s		•
14.	<ul><li>Which of the following is to</li><li>a. 3 tall 1 short plant</li><li>c. 8 tall and 0 short plants</li></ul>	otally impossible outcome of	b.	endel's experiment? 24 tall and 8 short plan 4 tall plants and 1 medi		height plant.
15.			b.	plant (TtRr) with dwarf a TtRr, Ttrr, ttRr, ttrr in th TTRR, TtRR, TTRr, Ttrr in	e ra	atio of 1:1:1:1

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16.	Which of the following is a	n inherited trait?				
	a. Height of a person	<b>b.</b> Weight of a person	c.	Both (a) and (b)	d.	None of these
17.	A tall pea plant was crosse ratio of 1:1. What are the g	d with a dwarf plant and tw genotypes of the parents?	o t	ypes of progenies tall and	d d	warf are produced in the
	a. TT and tt	b. Tt and TT	с.	Tt and Tt	d.	Tt and tt
18.	Sex is not genetically deter	mined in				
	a. turtle.	b. crocodile.	с.	snail.	d.	all of these.
19.		v be inflated (I, dominant) or o nflated if Ii is crossed with iii		stricted (i, recessive). Wha	it p	roportion of the offspring
	a. 25%	<b>b.</b> 50%	с.	75%	d.	100%
20.	Gene expresses the trait by	y				
	a. replicating its DNA.		b.	transcribing its DNA to	RNA	λ.
	c. translating the informat	ion on DNA to protein.	d.	transcribing the RNA to	DN	Α.
21.	Our teeth and elephant's to	usks are				
	a. homologous organs.	b analogous organs.	с.	homozygous organs.	d.	heterozygous organs.
22.	In human sex determination	n, a zygote which has inheri	ted	an X- chromosome from	n fa	ther will be
	a. a male child.	<b>b.</b> a female child.	c.	twins.	d.	either male or female.
23.	and dark hair (whose mot	dominant to blue (b) and da her was red haired) marries he genotypes of the man ar <b>b.</b> bbRR and BBrr	a nd h	woman with brown eyes	an	
24.	mother. What are the poss	colour (b) is recessive to br ible genoypes of the man, h	is r	nother and his father?	-	
	a. Bb, bb , BB	b. Bb, bb, Bb	с.	Bb, bb, bb	d.	Both (a) and (b)
25.		was crossed with a short pe	а-р	ant (tt), the progenies we	ere	all tall plants because
	a. tallness is the recessive			shortness is the domina		
	c. height of pea-plant is n	ot governed by gene T or t.	d.	tallness is the dominant	tra	ait.
26.	Select the group which sha	res the maximum number c	of c	ommon characters.		
	a. Two individuals of a spe	ecies		Two species of a genus		
	c. Two genera of a family		d.	Two families of a class		
27.	-	onsisted of breeding round them were green. What is th	-	_		
	a. RRYY	b. RrYy	с.	RRyy	d.	RRYy
28.	Which of the following lead	ls to change in gene frequer	ncy	without adaptation?		
	a. Genetic drift	b. Natural selection	c.	Both (a) and (b)	d.	None of these
29.	Dihybrid cross is related to	the law of				
	a. dominance.	b. segregation.	c.	independent assortment.	d.	all of these.
30.	What is the difference betw	veen genetic drift and chang	e d	ue to natural selection?		
		equire the presence of varia				
	<b>b.</b> Genetic drift never occu	irs in nature, natural selectio	on d	loes.		
	c. Genetic drift does not i	nvolve competition between	me	mbers of a species.		
	d. There is no difference.					

# **CHAPTER 5: SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES**

Pick the correct option:

1.	Coliforms are a. group of bacteria naturally found in human intestine. c. group of viruses which contaminates water.		group of bacteria which contaminates water. both (a) and (b).
2.	Bundhis system of irrigation is common in a. Madhya Pradesh. c. Bihar.		Himachal Pradesh. Kerala.
3.	Amrita Devi Bishnoi sacrificed her life to protect the fo a. neem trees. c. mango trees.	b.	: of khejri trees. banyan trees.
4.	Which of the following is not a greenhouse gas? a. Methane c. Carbon dioxide		Sulphur dioxide Nitrous oxide
5.	<ul><li>We should conserve forest and wild life to</li><li>a. preserve biodiversity.</li><li>c. obtain firewood.</li></ul>		control resources. use forest produce for industries.
6.	Which one of the following is not a stakeholder in fore a. Nature enthusiasts c. Tourists	b.	ecosystem? Industrialists Local people
7.	When fossil fuels are burnt in insufficient supply of oxy a. carbon dioxide c. both (a) and (b)	b.	n, gas is formed. carbon monoxide None of these
8.	Which of the following element is not found in fossil fu a. Sulphur c. Iron	b.	? Nitrogen Carbon
9.	<ul> <li>Which environmental problem is associated with the constraints.</li> <li>a. A large number of people get displaced.</li> <li>b. It contributes to deforestation and loss of biodivers.</li> <li>c. It involves the spending of huge amount of money.</li> <li>d. All of these</li> </ul>		ruction of high rise dams?
10.	The Indira Gandhi Canal has brought greenery to cons a. Rajasthan. c. Bihar.	b.	able areas of Gujarat. Madhya Pradesh.
11.	<ul><li>Water stored in ground</li><li>a. recharges well.</li><li>c. does not provide breeding ground for mosquitoes.</li></ul>		provides moisture for vegetation. all of these.
12.	Arabari forests of Bengal is dominated by a. teak. c. sal.	b. d.	bamboo. mangrove.

- 13. It is important to make small check dams across the flooded gullies to
  - i. hold water for irrigation.
  - ii. hold water and prevent soil erosion.
  - iii. recharge ground water.
  - iv. hold water permanently.
    - a. i. and iv.
    - b. ii. and iii.
    - c. iii. and iv.
    - d. ii. and iv.
- 14. An eco-friendly activity among the following is

a. using car for transportation.

c. using fluorescent tube at home.

- b. using polybags for shopping.
  - d. using solar energy to generate power at home.

d. Both (b) and (c)

- 15. The Bishnoi community in Rajasthan is associated with the conservation of
  - a. forest and wildlife. b. water resources. c. fossil fuels. d. all of these.
- **16.** Which of the following gases cause acid rain?
  - a. Oxides of hydrogen b. Oxides of sulphur c. Oxides of nitrogen
- 17. Dams help to
  - i. produce electricity.
  - ii. rehabilitate people.
  - iii. conserve biodiversity.
  - iv. provide water for irrigation.
    - a. i. and ii.
    - b. i. and iii.
    - c. i. and iv.
    - d. ii. and iv.

a. surangams.

- 18. Watershed management
  - a. prevents water shortage. b. mitig

**b.** khadins.

- c. increases the income of watershed community.
- 19. A traditional method of water harvesting in Rajasthan is
- 20. Ganga action plan came about in the year
- a. 1955. b. 1975.
- 21. Water pollution can be identified by checking
  - a. the pH of water.
  - c. both (a) and (b).
- 22. We should manage our natural resources for
  - a. short term perspective.
  - c. equitable distribution of resources.
- 23. Tendu leaves are used
  - a. for making papers.
  - c. as fodders for cattles.

- **b.** mitigates floods and droughts.
- d. all of these.
- an is c. bandharas. d. pynes.
  - **c.** 1986. **d.** 1995.
    - **b.** the presence of coliforms.
    - d. none of these.
    - b. damaging our environment.
    - d. none of these.
    - **b.** for making bidis.
    - d. for making baskets.

24.	Which of the following micr	roorganisms is coliform indi	cato	or in water?		
	a. Amoeba	<b>b.</b> Lactobacillus	с.	Euglena	d.	Escherichia coli
25.	Plantation of which trees ca	ause their monoculture?				
	a. Eucalyptus	b. Teak	с.	Pine	d.	All of these
26.	Which famous movement v	vas started in Reni village in	Ga	arhwal?		
	a. Joint forest managemen	t	b.	Bahuguna movement		
	c. Chipko movement		d.	Bishnoi movement		
27.	Sardar Sarovar Dam is built	t over river				
	a. Ganga.	b. Narmada.	с.	Yamuna.	d.	Brahmaputra.
28.	Which of the following can	be considered for biodivers	ity	hotspot?		
	a. Forest	b. Ocean	с.	Mountain	d.	Desert
29.	Surangams are traditional v	water harvesting system in				
	a. Madhya Pradesh.	b. Maharashtra.	c.	Kerala.	d.	Karnataka.
30.	Kattas is an ancient method	d of water harvesting in				
	a. Tamil Nadu.	b. Karnataka.	с.	Bihar.	d.	Rajasthan.

## **CHAPTER 6: OUR ENVIRONMENT**

#### Pick the correct option:

1.	Which of the following is no a. Algae	ot a part of biotic communit <b>b.</b> Fish	-	Oxygen	d.	Bacteria
2.	Which of the following is bi a. Aluminum foil	odegradable? b. Dry leaves	c.	Plastic toy	d.	Polyester
3.	Primary consumer among t a. deer.	he following is b. rabbit.	c.	sheep.	d.	all of these.
4.	Which of the following is an a. Crop land	n artificial ecosystem? b. Garden	c.	Forest	d.	Both (a) and (b)
5.	In a food chain comprisin maximum in	g protozoa, algae, man and	d fi	sh, the concentration of	ha	armful chemicals will be
	a. algae.	b. man.	c.	fish.	d.	protozoa.
6.	Which is a secondary consu a. Grasshopper	umer in a garden ecosystem b. Grass		Frog	d.	Snake
7.	In food chain, herbivores co a. first trophic level.	onstitute the b. second trophic level.	c.	third trophic level.	d.	fourth trophic level.
8.	Which of the following cons a. Plant, apple, butterfly, m c. Plant, insect, toad, snake	han		Grass, spider, bee, buffa Algae, amoeba, fish, cow		
9.	The third trophic level of a a. snake.	grassland food chain can be b. grasshopper.		grass.	d.	rabbit.
10.	In the following food chain is 100 J? Plants $\rightarrow$ Mice $\rightarrow$ Snake $\rightarrow$ H	n, how much energy will the Hawk	e ha	awk get if the energy ava	ilat	ble at the producer level
	a. 1000 J	<b>b.</b> 10 J	c.	1 J	d.	0.1 J
11.	Which organization succeed	led in forging an agreement	to	freeze CFC production at	19	86 levels?
	a. UNESCO	b. UNICEF	c.	UNEP	d.	WHO
12.	Oxygen is converted to ozo a. CFCs.	ne by the action of <b>b</b> . alpha radiation.	c.	UV radiation.	d.	gamma radiation.
13.	Which of the following gets	the minimum energy throu	gh	the food chain in an ecos	syst	em?
	a. Producer	b. Tertiary consumer	c.	Primary consumer	d.	Secondary consumer
14.	If the energy transferred to producer level?	the tertiary consumer in a f	foo	d chain is 0.25 J, how mu	ch	energy is available at the
	<b>a.</b> 250 J	<b>b.</b> 0.025 J	c.	25 J	d.	2500 J
15.	Mr. Galgotia eats curd. In t a. Second trophic level	his case, which trophic level b. First trophic level		l he occupy? Third trophic level	d.	Fourth trophic level
16.	Which of the following is no	ot true regarding an ecosyst	em	?		
	<ul><li>a. Food web is more stable</li><li>c. Green plants capture 109</li></ul>	e than food chain. % of sunlight that falls on it.		The flow of energy in an Flow of material in an e		-

17.	If a deer is eaten by lion, t a. producer to primary co c. secondary consumer to		b.	primary consumer to se none of these.	econdary consumer.
18.	The maximum concentrational producer.	on of harmful chemicals is for <b>b</b> . primary consumer.		d in secondary consumer.	d. tertiary consumer.
19.	The depletion of ozone in a. CFC.	the upper atmosphere is ma b. UV rays.	-	/ due to emission of greenhouse gases.	d. all of these.
20.	<ul><li>b. increase in the number</li><li>c. increase in the level of</li></ul>	there is a progressive eight through successive tro of organisms through succe harmful chemicals through through successive trophic le	essiv suco	ve trophic levels. cessive trophic levels.	
21.	<ul><li>Trophic level represents</li><li>a. biomass weight.</li><li>c. number of organisms in</li></ul>	n the food web.		position of an organism harmful chemicals.	i in food chain.
22.	The two basic processes the a. nutrient cycling and end c. photosynthesis and end		b.	photosynthesis and nut none of these.	rient cycling.
23.	The total biomass in a terr a. primary consumer.	estrial ecosystem is greatest b. producer.		secondary consumer.	d. tertiary consumer.
24.	The water of a lake was a affected organism? a. Fish eating birds living c. Algae growing in the la	near the lake	b.	ff carrying DDT. Which of Fish living in the lake Protozoa living in the la	of the following is the most ke
25.		l from a forest ecosystem b	у рс	baching, it will become	
	a. more stable.	b. less stable.	c.	will not be affected.	d. none of these.
26.	from the sun?		-	-	much energy will be available
	a. 2000 J	b. 20000 J		20 J	d. 200 J
27.	<ul><li>a. Insufficient food supply</li><li>b. Decrease in energy at h</li><li>c. Decrease in number of</li></ul>		e tro	phic levels	
28.	Which is the functional uni a. Niche	t of environment? b. Ecosystem	с.	Biosphere	d. Biome
29.	Green plants are the produ a. they are widely distribu c. they can trap solar ene		b.	they are fixed at one pl there are more herbivo	
30.	Which one of the following a. Eagle and snake	g pairs belongs to the catego b. Grasshoppers and deer	-		d. Lion and tiger

## **ANSWERS**

/			• •	HAPTER 1	: LIFI	E PROCES	SES	- UNIT I: I	NU				~~~
1.	b.	2.	b.	3.	b.	4.	с.	5.	a.	6.	d.	7.	b.
8.	b.	9.	c.	10.	a.	11.	с.	12.	d.	13.	a.	14.	a.
15.	b.	16.	с.	17.	a.	18.	с.	19.	d.	20.	с.	21.	b.
22.	d.	23.	d.	24.	b.	25.	d.	26.	с.	27.	a.	28.	b.
29.	a.	30.	c.										

/					•	UNIT II: R	ESP	IRATION					~
1.	с.	2.	b.	3.	c.	4	b.	5.	b.	6.	a.	7.	с.
8.	b.	9.	b.	10.	c.	11.	a.	12.	с.	13.	b.	14.	d.
15.	a.	16.	b.	17.	c.	18	с.	19.	d.	20.	a.	21.	d.
22.	d.	23.	b.	24.	c.	25	b.						
\													

					UNI	T III: TRAI	NSP	ORTATION	l				••••
1.	b.	2.	b.	3.	d.	4.	c.	5.	d.	6.	c.	7.	a.
8.	a.	9.	d.	10.	b.	11.	b.	12.	a.	13.	d.	14.	d.
15.	b.	16.	d.	17.	a.	18.	с.	19.	a.	20.	b.	21.	с.
22.	a.	23.	b.	24.	a.	25.	с.						

						UNIT IV: E	хс	RETION					······································
1	a.	2.	c	3	c.	4.	c	5	d.	6	b.	7	a.
8.		9.			d.	11.		12.		13.		14.	
15.	b.	16.	b.	17.	d.	18.	b.	19.	c.	20.	b.	21.	d.
22.	с.	23.	d.	24.	a.	25.	b.						

				CHAPTER	2:	CONTROL	AND	COORDI	NAT	ION				······
1.	c.	2.	b.	3.	c.	4.	d.	5.	a.		6.	c.	7.	d.
8.	a.	9.	с.	10.	b.	11.	с.	12.	d.		13.	b.	14.	b.
15.	с.	16.	b.	17.	с.	18.	d.	19.	с.		20.	с.	21.	с.
22.	с.	23.	a.	24.	b.	25.	d.	26.	b.		27.	d.	28.	a.
29.	b.	30.	b.											

			НА	PTER 3: R	EPR	οουςτιο	ΝI	N PL	ANTS A	ND	ANIMALS			~~~~
1.	d.	2.	с.	3.	b.	4	. b		5.	a.	6.	a.	7.	d.
8.	с.	9.	b.	10.	c.	11	. с.		12.	b.	13.	d.	14.	b.
15.	b.	16.	b.	17.	b.	18	. с.		19.	d.	20.	c.	21.	a.
22.	d.	23.	a.	24.	c.	25	. d		26.	d.	27.	b.	28.	b.
29.	b.	30.	c.											

/*************************************		CHAP1	CHAPTER 4: HEREDITY AND EVOLUTION										
1	. с.	2.	d.	3.	c.	4.	b.	5.	d.	6	. a.	7.	d.
8	. b.	9.	d.	10.	b.	11.	d.	12.	b.	13	. d	. 14.	d.
15	. b.	16.	a.	17.	d.	18.	d.	19.	b.	20	. с.	21.	a.
22	. b.	23.	a.	24.	d.	25.	d.	26.	a.	27	. d	. 28.	a.
29	. с.	30.	c.										/

<i>.</i> ,,,,,,,,,,		•••••	СНАРТ	ER	5: SUSTAII	NAB	LE MANA	GEM	IENT OF	N	ATUF	RAL RESC	URCES		~~~~
	1.	d.	2.	a.	3.	b.	4.	b.		5.	a.	6.	с.	7.	b.
	8.	с.	9.	d.	10.	a.	11.	d.		12.	с.	13.	b.	14.	d.
	15.	a.	16.	d.	17.	с.	18.	d.		19.	b.	20.	с.	21.	с.
	22.	с.	23.	b.	24.	d.	25.	d.		26.	с.	27.	b.	28.	a.
	29.	с.	30.	b.											/
· ·	••••														

/*************************************				СН	CHAPTER 6: OUR ENVIRONMENT									
1.	с.	2.	b.	3.	d.	4.	d.	5.	b.	6.	c.	7.	b.	-
8.	с.	9.	d.	10.	d.	11.	с.	12.	c.	13.	b.	14.	a.	-
15.	с.	16.	c.	17.	b.	18.	d.	19.	a.	20.	с.	21.	b.	1
22.	a.	23.	b.	24.	a.	25.	b.	26.	b.	27.	b.	28.	b.	
<b>N</b>	c.	30.												/