Sylhet Board 2016

Biology

Times — 2 hours 10 minutes

Creative Essay Type

Subject Code 1 3 8

Full marks — 40

[N.B. — The figures in the right margin indicate full marks. Read the stems carefully and answer the associated questions. Answer any four questions.]

1.

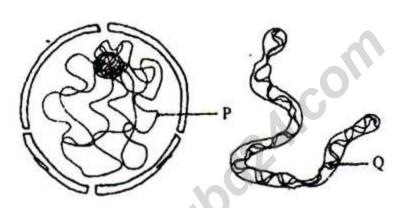


Fig: X

energy — Analyze it.

Fig: Y

a. What is prokaryotic cell?
b. What do you understand by Bionomial Nomenclature?
c. Describe the chemical structure of 'Q' in Fig: Y.
d. Analyze the role of 'P' component determine of human sex.
4
2. ► C₆H₁₂O₆₊₆O₂ → 6 CO₂ + 6H₂O + E.
a. What is photosynthesis?
b. How does cancer created? Explain it.
c. Describe the cyclic process of the production of 'E' in the cell organelle.
d. The process in the stem is indirectly depends on solar

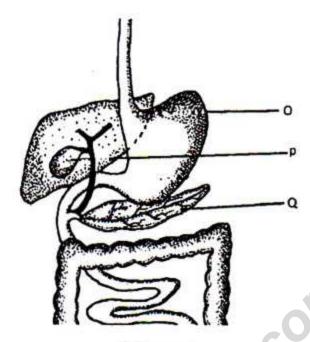


Fig: A

a.	What is mineral nutrient?	1
b.	What do you understand by roughage?	2
c.	Describe how does food digest in the 'O' organ in	above
	Fig: A.	3
d.	Which one is more important among P and Q to	digest
	food— Analyze it.	4
4.	During playing of cricket, Biplob got several injury	to his
kn	ee joint. After a through check up doctor said to him the	nat the

ligament of knee joint is pulled a part.

a. What is cartilage?

b. What do you mean by osteoporesis?

c. Describe the structure of injured organ of Mr. Biplob.

 d. Analyze the coordination within the functions of different organs of the body with the ligament of injured organ of Mr. Biplob.

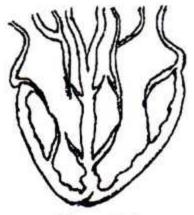


Fig: M

What is dialysis? a. b. What do you understand by blood pressure? Write the structural features of the tissue related to the C. activities of Fig: M. d. "Appropriate and sufficient food intake, regular exercise and walking make possible to maintain healthy life."-Analyse the relationship of Fig: M with the statement. 6. ► Mr. Jamal is a Biotechnologist. He can able to produce huge number of seedlings to use a specific part of a plant. Besides this, he usually transferred or added the DNA to produce the new variety of plants of desired characters. Nowadays both the process are very popular and playing an important role in the economic development of human kind. What is decomposer? a. b. What do you understand by mutualism? Present a labelled diagram of the first process mentioned in C. the stem. 3

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statement with logic.

'The second technology used by Mr. Jamal plays an

important role in the economic development— Explain the

Biology Creative Multiple Choice Questions

Full Marks — 35

[NB. Answer all the questions. Each question carries one mark. Block fully, with a ball point pen, the circle of the letter that stands for the correct/best answer in the "Answer Sheet" for the Multiple Choice Questions Examination.]

Features of kingdom fungi are—

- Saprophytic
- ii. Nuclear membrane absent
- iii. Chloroplast absent

Which one of the following is correct?

- (a) i, ii
- (b) ii, iii
- © i, iii
- d i, ii and iii

Which one is related to Endocrinology?

- (a) Fossil
- (b) Cell
- © Hormone
- (d) Evolution

3. Copsychus saularis is the scientific name of-

- (a) Asian Toad
- (b) Magpie-Robin
- © Water lily
- d Jackfruit

On the basis of the following diagrams answer to the questions no. 4 and 5 :--

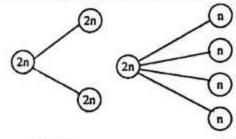


Fig-P

Fig-Q

In the Fig. P—

- i. the mother cell and the daughter cells bear same features
- ii. the number of the chromosome becomes half in the newly produced cells
- iii. chromosomes divide once

Which one of the following is correct?

- (a) i, ii
- (b) ii, iii
- © i, iii
- d i, ii and iii

Applicable for Fig. "Q"—

- chromosome of daughter cell is haploid
- ii. reductional cell division
- iii. occurs in somatic cell

Which one of the following is correct?

- (a) i, ii
- (b) ii, iii
- © i, iii
- d i, ii and iii

Plasma lemma has—

- Double-layer
- Carbohydrate and protein
- iii. Microvilli

Which one of the following is correct?

- @ i, ii
- ⓑ i, iii
- © ii, iii
- d i, ii and iii

7. Which cells are elongated with slender and sharp ends?

- Collenchyma
- (b) Tracheids
- © Sieve cell

Companion cell

8. In which stage the centromere of each chromosome remains on the equator?

- (a) Prophase
- Metaphase
- © Anaphase
- d Telophase

9. What is the result of irregular cell division?

- (a) AIDS
- (b) Goiter
- © Anemia
- (d) Cancer

10. In which tissue photosynthesis occurs?

- Xylem
- b Phloem
- © Parenchyma
- Sclerenchyma

11. In which year Watson and Crick was awarded Nobel Prize for the discovery of DNA model?

- (a) 1953
- (b) 1961
- © 1971
- (d) 1981

12. X What is applicable for Glycolysis—

- Oxygen is required
- ii. 2Mole pyruvic acid is produced
- iii. Occurs in cytoplasm

Which one of the following is correct?

- (a) i, ii
- Ъi, iii
- © ii, iii
- d i, ii and iii

13. Which one is the micro nutrient for plant?

- Ca
- (b) Mg
- © K
- d) Fe
- N.B: All the distractors are macro nutrients for plants.

14. In which food many molecule of glucose are present?

- Honey
- Milk
- © Sugar
- (d) Potato

15. When wood comes in contact of water for long period of time it swells up because of-

- (a) Imbibition
- (b) Diffusion
- © Osmosis
- d Absorption

16. What does it applicable for RBC?

- Survives 120 days
- ii. Non-nucleated
- iii. Biconcave

Which one of the following is correct?

- (a) i, ii
- (b) i, iii
- © ii, iii
- d i, ii and iii

17.	What is the % of I	[2] [[전] [[전] [[전] [[전] 2] [[D] 2] [[questions no. 27, 28 and 29 :					
	(a) 70%(c) 90%	(b) 80% (d) 100%	Fe	ertili	zation $\rightarrow Y \rightarrow$	Development		
10		argest gland of human		>	(Z		
10.	body?	ingest gland of numan	27. How many types of X occurs in animal?					
	Pancreas			a		ⓑ 2		
	Salivary gland			©	3	@ 4		
	© Liver		28.	Wh	ich of the follo	wing is applicable fo		
	d Gastric gland			Y?		NAMES OF THE PROPERTY SCHOOLS OF THE		
10	A STATE OF THE PARTY OF THE PAR	nations outlan from		i.	Diploid cell			
19.	i. Lip becomes blu	patient suffer from—	ii. Fused cells					
	ii. Chest pain		iii. Chromosome number n					
	iii. Breathing distres	SS	Which one of the following is correct?					
	기타기 시민 아이는 아이가 되어 나는 그리는 사람이 되었다.	ollowing is correct?		a	i, ii	ⓑ i, iii		
	(a) i, ii	ⓑ i, iii		©	ii, iii	(d) i, ii and iii		
	© ii, iii	d i, ii and iii	29.	_	at is the next st			
		on for the colour of			Morula	(b) Blastocyst		
	urine?				Gastrula	d Cleavage		
	@ Urea	(b) Uric acid	30.	×	Which one	- 1995		
	© Creatanine	(d) Urochrome			position of skin	**************************************		
21.	What is the reason	for kidney failure?		1	Soap	(b) Fairness cream		
	② Cancer	(b) AIDS	842425		DNA	@ RNA		
	© Diabetes	(d) Asthma	31.	100		cable for female?		
22.	Where do we find B	all and Socket joint?	A	496	44+XX	(b) 44+XY		
	Teeth	(b) Shoulder			22+XX	@ 22+XY		
	© Elbow	(d) Knee	32. Which one is parasitic food chain?					
23.	What is applical	ole for osteoporosis	(a) Algae→Small fish→Hawk					
	i. Calcium deficier		Man→Mosquito→Dengue virus					
	ii. Children suffer r	nuch	© Dead body→Fungi→Earth worm					
	iii. Back pain occur	s						
	Which one of the fe	ollowing is correct?	33.	Wh	ich vaccine is p	roduced from yeast?		
	(a) i, ii	ⓑ i, iii		a	Hepatitis B			
	© ii, iii	d i, ii and iii		6	Influenza			
24.	Insulin is secreted	from-		©	Diphtheria			
	a Pituitary	360		(1)	Cancer			
	(b) Islets of langerha	ans	34. Applicable for tissue culture—					
	© Gonad			i.	It is a branch of	botany		
	d Thymus				Explants are use			
25.	Which one is day n	eutral plant?	iii. Palm oil production					
	Chrysanthemum	(b) Jhinga		_		ollowing is correct?		
	© Dahlia	① Cucumber		(a)	3	ⓑ i, iii		
26.		s a gaseous substance?			ii, iii	(d) i, ii and iii		
	a Ethylene		35.		ich one is the g			
	(b) Cytokinin			(a)		(b) CO		
	© Gibberellin			.DF62	CO₂	(d) H₂CO₃		
	d Auxin				~ 기회회장 및 ~ 전기장 Parker (프라이스) # 1	is CO and CO ₂ . So th		
Read the following stem and answer to the answer will be b and c								
1 @ 2 @ 3 @ 4 @ 5 @ 6 @ 7 © 8 © 9 @ 10 @ 11 @ 12 @ 13 @ 14 @ 15 @ 16 @ 17 @ 18 © 19 @ 20 @ 21 © 22 @ 23 @ 24 @ 25 © 26 © 27 @ 28 @ 29 @ 30 @ 31 @ 32 © 33 @ 34 © 35 @								