Chattogram Board 2017

Biology

Subject Code

1 3 8

Time — 2 hours 35 minutes

Creative Essay Type

Full marks - 50

[N.B.-The figures in the right margin indicate full marks. Read the stems attentively and answer any five of the following questions.]

1.

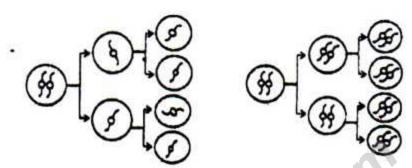


Fig: E

Fig: F

- a. What is Histology?
- b. Write the role of synapse to carry nervous stimulation. 2
- c. What will happen when the division of Figure-F is uncontrolled? Explain.
- d. Give the comparative analysis between the division of Figure E and F.
- 2. Proma is tired. Giving a piece of mango her mother said, "Eat it, then you will get energy." Then Proma asked mother, "How energy is stored in mango and how I shall get energy by eating it?" Mother replied, "It is a bio-chemical process where light energy is converted into chemical energy in the first stage. But an opposite process will be occurred in your body which is very important for all living being."
- a. What is macronutrient?

1

b. What do yu understand by Roughage?

2

 Explain the first stage of Proma's mother's first mentioned process in stem.

- d. Why the process is important for all living being which occurred in Proma's body? Analyse it.
- 3. ▶ The secreted juice of two digestive glands turn into simple particles from complex food in the part 'A' of the digestive tube of human body. To reach towards the body cell of this simple particles blood and lymph play role.
- a. What is Goiter?

1

b. What do you understand by bone?

. 2

- c. How does food turn into simple particles in the part 'A' of the discussed tube? Explain.
- d. That simple particles are essential for the structure and function of body. Analyse it.

4. ▶

Right	Left	
K	L	Lung
M	P	Heart
N	0	

a. What is Tendon?

1

b. What do you understand by synovial joint?

- 2
- c. Explain the blood flow from part 'M' to parts 'k' and 'L'. 3
- d. Analyse the process of the 'M, N, O, P' marked organ to separate oxygenated and carbon-dioxide enriched blood. 4
- 5. ▶

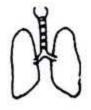


Fig: Q

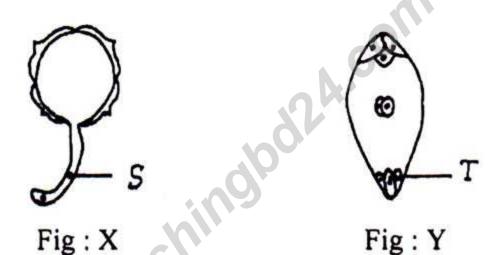


Fig: R

- a. What is prokariotic cell?
- b. Why is breathing problem may develop if someone sleeps under a big tree at night? Explain.
- Explain the functional Unit of the marked 'R' organ in the stem.
- d. "Though the both organs of the stem play the role in the blood purification, they are involved in different system."

— Analyse it.





- a. What is Georeception?
- b. Explain the use of feromen to control the harmful insects. 2
- c. Explain the structure of Figure-Y.
- d. Analyse the significance of later condition after meeting of the 'S' and 'T'.
- 7. Sifat is impressed by observing different incidents of biodiversity. These kind of two incidents are given below:

Incident-1: Though a fish lays a lot of eggs, the number of fish becomes less in the river.

Incident-2: Many dogs are transferred to Nijhum Island from the main central part of Bangladesh through fishermen. The dogs of Nijhum Island have become much wilder than the dogs of central part.

a. What is gene?

1

b. Why DNA test is required? Explain.

2

- Explain the cause of Incident-1 in the light of the theory of evolution.
- d. Evaluate the incident-2 according to the organic evolution.4

8.



a. What is producer?

1

- b. What is the cause of Bacteria's involvement into Kingdom Monera? Explain.
- c. Describe the procedure of Figure-X.
- d. Analyse the importance of the technology of the mentioned Figure-Y.

Creative Multiple Choice Questions

Full marks — 25

[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.]

		correct/be.	st answer in the "Answer Sheet" for t	he Multip	le Choice Questions Exami
	1.	Iron (Fe) is a	bsent in which of the		i. conjugation
		following compon			iii. meiosis
		@ Red leaves			Which one is correct
		© Arum leaves			(a) i and ii
	2.	When diaphragm	2000 (Sm 50 km)		© ii and iii
4.		i. it goes upwards		9.	
		ii. it goes downwa		-	helps to create can
			of the thoracic cavity		(a) HIV
		increases			© Rabies
		Which one is corre	ect?	10	Which one of the f
		(a) i and ii	(b) i and iii	10.	the extension of
		© ii and iii	d i, ii and iii		pyramid?
	3.	Which one is	the main element of		(a) Glomerulus
		chlorophyll?			© Collecting tubule
		@ Zn		11.	The fit of the
		© Na	@ Mg		which element?
	4.	Which hormo	one helps in growth of		a Lipid
		beard?			(b) Carbohydrate
		Oestrogen	Thyroxine		© Vitamin
		© Testosterone		12.	From which vaccin
	Lo		g reaction and answer		produced?
		he questions no. 5			Protozoa
		Light			© Yaest
	Z +	Pi Chlorophyl 1 X		13.	Mainly in whi
	5.	Which one of t	he following is called	10.	transported through
		high energy rich			(a) As bicarbonate f
		(a) X	ⓑ Pi		(b) As Carbomino c
		© Z	@ Chlorophyl 1		© As Carbonic acid
	6.	If the above men	tioned process does not		d As Carbon and (
		occur —	8.3 (4.5 de 200 m²/s) (2.5	14	Preventive measu
		i. it will create a	natural forest	14.	i. abstaining from
		ii. human civi	lization will face		alcohol
		destruction			ii. taking excess fat
		iii. living world w	ill be extinct		iii. regular exercise
		Which one is correct?		Which one is correct	
		@ i and ii	b i and iii		(a) i and ii
		© ii and iii	d i, ii and iii		© ii and iii
	7.	Which colour of	the colourblindness is	15.	In which book I
		called the univers	sal colourblindness?	2000	rules of binomial n
		Red-Green			De Planties
		© Red-Skyblue	@ Red-Violet		(b) Species Plantaru
	8.	In case of the	organism of protista		© Systema Nature
		1202 RES 120	National Value of the Control of the		C

kingdom, the reproduction process is -

	i. conjugation	ii. mitosis			
iii. meiosis Which one is correct?					
	(a) i and ii	ⓑ i and iii			
	© ii and iii	(d) i, ii and iii			
		- [18일(19] 14일(18] 14일(18] 14일(18] 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14			
	Which one of the following vir helps to create cancer cell?				
	(a) HIV	(b) Papilloma			
	© Rabies	d Rubella			
).	A CHARLES OF THE PARTY OF THE P	ollowing is formed by			
		the apex of renal			
	pyramid?	Freezon co n tracas successos contractos			
	Glomerulus	(b) Capsule			
	© Collecting tubule	d Papilla			
		bone joint formed of			
	which element?				
	a Lipid				
	⑥ Carbohydrate	10 <u>1</u> 2007			
	A STATE OF THE PROPERTY OF THE	d Protein			
١.	. From which vaccine of hepatitis-B vir				
	produced?	~			
	Protozoa	⊕ Virus			
	© Yaest	d Bacteria			
١.	Mainly in which				
	transported throug	A CONTROL OF THE CONT			
	As bicarbonate for the contract of the co				
	As Carbomino compound form				
	© As Carbonic acid				
	d As Carbon and C				
٠.	 Preventive measures of lung cancer is abstaining from smoking and drink 				
	alcohol	smoking and drinking			
	ii. taking excess fat	ty food			
	iii. regular exercise	iy 100u			
	Which one is correc	t?			
	(a) i and ii	(b) i and iii			
	© ii and iii	d i, ii and iii			
5.		innaeus include the			
133	rules of binomial n				
	De Planties				
	(b) Species Plantaru	m			
	0 0				

Phylogenic Taxonomy

16 Access of cell care because thereigh		100 2 4347	
16. Ascent of cell sap happens through	i. Sodium bisulph	ate	
which part?	ii. D.D.T	to	
Vessel Translaid	iii. Calcium apernate		
(b) Tracheid	Which one is correct?		
© Sieve tube	@ i and ii	ⓑ i and iii	
d Phloem fiber	© ii and iii	(d) i, ii and iii	
Read the following stem and answer to the	0.00	g stem and answer to	
questions no. 17 and 18 :	the questions no. 21 a		
Shelly got married for 6 years. Till now they	_	Moumi Salam Dalia	
gave birth 3 daughters for the desire of son.	Blood group A	B AB O	
Due to this her husband and mother-in-law		e blood to which person?	
always make her guilty. After that the	To Moumi	(b) To Salam	
specialized doctor explained the correct causes	© To Dalia	d To all	
of sex determination.		nation for all blood is —	
17. Who is the real responsible person for		ly present in the plasma	
the above mentioned problem?	of Dalia		
Shelly herself Unaband of Shalls	ii. Moumi can receive the blood of Dalia		
(b) Husband of Shelly		ate blood to Tonmoy	
© Mother-in-law of her	Which one is correct?		
d Fortune	ⓐ i and ii	ⓑ i and iii	
18. If Shelly gives birth to male baby —	ii and iii	S-201 At	
	23. La Usually digestion does not occur in		
i. the fertilized zygote will be +	stomach —	11272 15.	
ii dha aasaa widh IVI ahaanaaaaa af	 carbohydrate type of food 		
ii. the sperm with 'X' chromosome of	ii. protein type of food		
Shelly's husband will take part in fertilization	iii. fat type of food		
iii. the sperm with 'Y' chromosome of	Which one is corre		
Shelly's husband will take part in	a i and ii	ⓑ i and iii	
fertilization	© ii and iii	(d) i, ii and iii	
Which one is correct?	그렇게 원호하는 사람들을 전혀하고 있었다면 하다 하다 하다 하다 하다.	cess of removal of the	
(a) i and ii (b) i and iii	stone of kidney is		
© ii and iii	i. ureteroscopic p		
19. Which one is formed by a bundle of	ii. ultrasonic litripsi		
nerve fibres?	iii. surgical operation		
Cerebellum	Which one is corre	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
(b) Pons	ⓐ i and ii	(b) i and iii	
© Cerebrum	© ii and iii	(d) i, ii and iii	
Medulla oblongata		is the BMI of a person whose	
20. In food preservation the authorized	height is 1.50 m a	시하는 '이 Harmon' 이 이렇게 되었다면서 있는 아니다 (Charles of the Charles of the	
chemical substance is —	@ 22.22	(b) 24.20	
Chemical substance is —	© 26.22	(d) 28.20	

(6)

8

21

(8)

9

(1)

10

23 @ (8)

©

11

6

13

12

25 ©

7

20 @

(b)

0

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©

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©

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©

17

5

18

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