Subject Code : 1 3 8

Model Question of SSC Examination 2016 All Board

Sub: Biology (Creative)

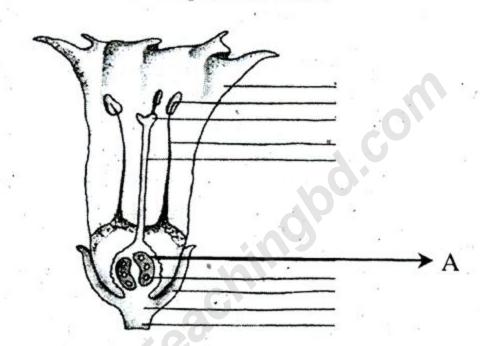
Time: 2 Hours 10 minutes Total Marks-40 (Answer any four of the following Questions)

1.▶

Reaction i) $6CO_2 + 12 H_2O \longrightarrow A + 6O_2 + 6H_2O$ Reaction ii) $A + O_2 \longrightarrow 6CO_2 + 12H_2O + ATP$

- a. What is gene?
- b. Why mitochondria are called the power house of cell? 02
- c. Analyze the differences between reaction i and reaction ii as per the stem.
- d. Describe the process of producing A mentioned at the first reaction and what will happen if there is no production of this molecule?- Explain in brief.





- a. What is ecosystem?
- b. What do you mean by binomial nomenclature? 02
- Describe how the identified portion of the flower takes part in its reproduction.
- d. What is the significance of the process happened inside portion A? Analyze your opinion. 04

Group- B (Zoology)

- 3.▶ Rani is a garments worker. While sewing a needle prick in her hand. She suddenly jerking away of her hand. This action of Rani can be explained in a scientific way. Special system is related with this phenomenon.
- a. Who is called the father of Genetics?
- b. Why DNA replication is called semi conservative? 02
- Describe the structure of the functional unit of the special system mentioned in the stem.

d. Rani suddenly jerking away her hand, why does it happen? Describe this phenomenon in a scientific way. 4. Bronchus What is Biotechnology? 01 a. What do you mean by GMO? b. 02 Describe the above structure in the stem. 03 C. Explain how O2 and CO2 gas transport occur in the above d. mentioned system. 04 Group- C (Combined) 5.▶ Desired gene Recombinant What is imbibition? a. 01 Why meiosis is important in maintaining genetic stability? b. 02 Describe the process from A to E in brief as mentioned at C. the stem. 03 The process mentioned above has great influence in crop development and agriculture- analyze with logic. 04 6.▶ Genetics is a special branch of biology deals with heredity. Structural and behavioral traits are passed from parents to offspring through heredity materials. Some of the genetic abnormalities are color blindness and Thalassemia. Color blindness is more common in man than woman. What is respiration? a. 01 b. What do you mean by survival of the fittest? 02 c. Write about the heredity materials mentioned in stem. 03 d. Color blindness is more common in man than woman. Explain it. 04

Model Question of SSC Examination 2016 All Board

Sub: Biology (MCQ)

Time: 35 minutes

Total Marks- 35

[Darken the circle (O) of the correct option from the following alternatives]

- First stable compound of C3 plant is-
 - Oxaloacetic acid
 - 3-Phosphoglyceraldehyde
 - © 3- Phosphoglyceric acid
 - 3-carbon Keto acid
- Optimum temperature for respiration is-
 - (a) 20-35°C
- ⊕ 20-40°C
- © 30-45°C
- @ 20-45 °C
- Cell membrane is-3.
 - Single layered
 - ii. Semipermeable
 - iii. Composed of lipid and protein
 - Which one is correct?
 - @ i & ii
- (b) i & iii
- © ii & iii
- d i, ii & iii
- The scientific name of national flower is-
 - (a) Oryza sativa
 - Corchorus capsularis
 - © Nymphaea nouchali
 - (d) Hibiscus rosa-sinensis
- Characteristics of sieve tube are-5.
 - They do not contain nucleus when mature
 - ii. Part of Xylem
 - iii. The function is to conduct food
 - Which one is correct?
 - (a) i & ii
- (b) i & iii
- © ii & iii
- (d) i, ii & iii
- Necrotic spots are developed in deficiency of
 - i. P
 - ii. N
 - iii. K

. Which one is correct?

- @ i & ii
- (b) i & iii
- © ii & iii
- @ i, ii & iii
- Which one is not an important factor of transpiration?
 - Temperature
- Oxygen
- © Relative humidity
- d Light
- Because of auxin-
 - Root initiation occurs
 - ii. Rate of osmosis and respiration

 - iii. Initiate the production of seedless fruits

Which one is correct?

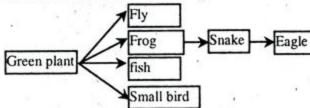
- @ i & ii
- (b) i & iii
- © ii & iii
- @ i, ii & iii

- Which one of the following is a long day plant?
 - (a) Dahlia
- Sunflower
- © Lettuce
- (d) Cucumber
- 10. Responsible for fruit ripening-
 - Gibberellin
- (b) Auxin
- © Ethelene
- d Cytokinin
- 11. Which plastid helps in plants reproduction?
 - Chloroplast
- b Leucoplast
- © Amyloplast
- Chromoplast
- 12. Who is the father of Genetics?

 - © Gregor Mendel @ Hans Krebs
- 13. After fertilization
 - i. Ovary turns into fruitsii. Ovule turns into seed

 - iii. Ovary wall turns into seed coat.
 - Which one is correct?
 - @ i & ii
- (b) i & iii
- © ii & iii
- (d) i, ii & iii
- Which one is a RNA virus?
 - (a) Bacteriophage
 - (b) Tobacco Mosaic Virus
 - © Rubella
 - d Hepatitis B virus
- 15. Which one is phytoplankton?
 - a Algae
- (b) Insects
- © Fungi
- (d) Small fish

Read the stem and answer question 16-17



- 16. How many food chains are there in the diagram mentioned above?
 - (a) 1
- (b) 2
- (d) 4
- 17. In the light of the stem which one is the consumer of second level?
 - Small fish
- Snake
- © Eagle
- d Grasshopper
- 18. During cell division if a mother cell (2n=28. goes through reduction division, then how many chromosomes will be there in each daughter cells?
 - (a) 28
- 6 56
- © 12
- @ 14

19.		t scientific name of
	Asian toad?	
	Bufo melanos	
	(b) Corchorus ca	
	© Duttaphrynus	melanosticius
•••	d None	1.1.1
20.	Which branch of	biology deals with
		activities of different
	organs of orga	
	Morphology	
n .		Endocrinology
		swer the questions
	.22.)	fuere a disease Us
Mr.	Kanim is suffering	from a disease. He
wen	it to a nospital. Doc	tor said that one of his
		g. Doctor advised him
	emove his body was	
21.	Which organ of I	vir. Ranim is not
	functioning?	O Vidaou
	Heart	(b) Kidney
	© Brain	@ Lungs
22.	Where Epiglottis	
	a Pharynx	
	© Trachea	@ Bronchus
23.	What are the fun	ctions of this organ?
	 To keep balan 	ce of water
	ii. To control gas	eous exchange
		armful wastes from
	body	
	Which one is cor	
	@ i & ii .	ⓑ ii & iii

© i & iii

(d) i, ii & iii

24. Which animal are scavengers?

a Crow

(b) Fox

© Vulture

d All of them

Which mineral deficiency caused Osteoporesis?

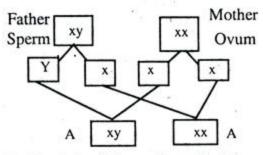
Potassium

(b) Calcium

© Phosphorus

(d) Iron

Read the stem and answer the questions (26-27.



26. In the state of Y mentioned in the stem, what would be the number of chromosomes?

(a) 46

(b) 44

© 23

27. What type of chromosomes are there in A and B mentioned in the stem?

XY,XX

® XX,XY

© XY, XY

@ XX, XX

28. In which part of the body Tuberculosis can occur?

i. Lungs

ii. Bone

iii. Intestine

Which one is correct?

(a) i & ii

(b) ii & iii

© i & iii

(d) i, ii & iii

29. Which one is a saprophytic food chain?

(a) Grass → Grasshopper → Toad

Man → Mosquito → Dengu → virus

© Dead body→ Fungi → Earth→worm

d Algae → Zooplankton → Big fish

30. Who is the writer of book "Origin of species by means of Natural Selection"?

(a) Russel Wallace
(b) Darwin

© David Prain

Alexander Fleming

31. Which one is a special enzyme to join enzyme?

a Ligase

(b) Restriction

© Lactase

d Lipase

32. Read the following statements:-

i. Two bones are connected to each other by Ligament

Human skeleton is composed of 204

iii. Muscles are joined to bones by tendons

Which one is correct?

(a) i & ii

(b) ii & iii

© i&iii

(d) i, ii & iii

33. Which statements are true for lungs?

- Lung is spongy, soft and light reddish in color
- ii. Lung is covered by pleura
- iii. Right lung is two lobed

Which one is correct?

(a) i & ii

(b) ii & iii

© i&iii

(d) i, ii & iii

34. Where is uracil found?

a DNA

(b) RNA

© Gene

d Locus

35. How many pairs of nerves comes from brain?

(a) 12 pairs

Delia pairs

© 31 pairs

@ 13 pairs

7	1	©	2	(b)	3	©	4	©	5	(b)	6	(b)	7	(b)	8	(b)	9	a	10	©	11	a	12	©	13	(a)	14	(b)	15	(a)	16	(1)	17	6	18	(1)	19	©	20	6
2	1	6	22	6	23	©	24	(1)	25	(b)	26	©	27	(a)	28	@	29	©	30	(b)	31	(a)	32	©	33	(3)	34	(b)	35	(3)										