

TIME: 3hrs
M.M. 70
CLASS - XII

ANSWER KEY

Second Term

XII

(2017)

SUBJECT --

Biology

Date:

16/10/17

Section A

1. Out crossing 1
2. Gene is hereditary vehicle $\frac{1}{2}$] 1
Allels are alternative form of gene $\frac{1}{2}$
3. Eutrophication $\frac{1}{2}$] 1
B.O.D deplete the oxygen $\frac{1}{2}$
4. Gel electrophoresis 1
5. Sickle-cell anaemia 1

Section B.

6. Joining of Okazaki $\frac{1}{2}$] 2
a) fragments $\frac{1}{2}$
b) uncoiling $\frac{1}{2}$
7. ^{Mostly} 1. Saline/acid $\frac{1}{2}$] 2
2. Pseudopodia $\frac{1}{2}$
3. Sunken stomata Any $\frac{1}{2} \times 4$
2. Thick Cuticle
3. Extensive root system
4. CAM cycle.
8. Name *Entamoeba histolytica* $\frac{1}{2}$] 2
Abdominal Pain, Excessive stool with mucus $\frac{1}{2} \times 3$
9. OR
a) wheat
b) Pusa Komal
c) white rust
d) Black rot and leaf blight
black rot

(2)

9. B.O.D reduced
Pumped into aeration $\frac{1}{2} \times 4$
Tank, Biogas energy Any four] 2.

10. Fusion of gamete
diploid number 1×4
Diploid cycle
Oogenesis +
Spermatogenesis] 2.

Section C

11. Explanation + $1\frac{1}{2}$
Diagram $1\frac{1}{2}$] 3
OR

Explanation + $1\frac{1}{2}$
Diagram $1\frac{1}{2}$] 3

12. Undifferentiated $\frac{1}{2}$
man
Protoplast hybridization $\frac{1}{2}$
+ Diagram] 3

13. Colostrum, yellow
Immune system produces
Antibodies nutrients
for young one] 3

14. Polymerase chain reaction $\frac{1}{2}$
Denaturation
Annealing $2\frac{1}{2}$
Extension with
diagrams] 3

15. (a) Biocontrol agent
(b) Bread making
(c) Statins - lower cholesterol] 3

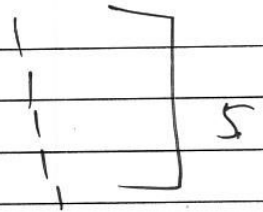
(3)

Marking scheme

	d) Immune suppressing medicine in organ Transplant			
	e) Penicillin a antibacterial			
	(f) Preparation of Swiss cheese			
16	Critically modified crop	1] 3	
	Any two	1		
17	Colour blindness	1] 3	
	inherited from mother	1		
	Sex affected is male	1		
	Sex linked recessive	1		
18	Homoestasis	1] 3	
	constant temp.	1		
	Physiological behavior	1		
19	Seeking help	1] 3	
	see Pessner	1		
	Counseling (Any three)	1		
20	Specific level	1] 3	
	Autotrophs	1		
	functional level etc	1		
21	Explain RNAi technique			
	Menstrual infection	1] 3	
	Meloides give explain	2		
22	Explanation +	1+1] 3	
	Diagram + advantage	1+1		
<u>Section D.</u>				
23	Knowledge,	2] 4	
	educational changes	2		
	emotional behaviour	2		
24	<u>Section E</u>			
	Narrow	2] 5	
	Broad etical explanation	2		

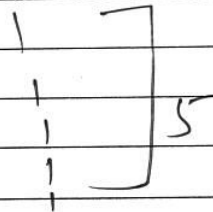
(4)

1. Greenplast
2. Selection, 2 Hybridization
3. Testing evaluation
4. Commercialization

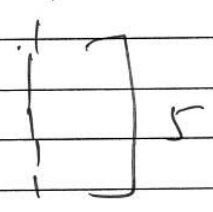


25.

- Fertilization, Implantation
 zona pellucida / blastomeres
 Gonadotrophin, Releasein
 Diagrams

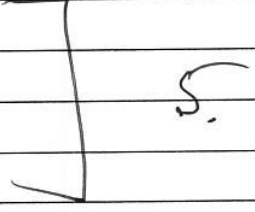


- OR
 Fusion, endosperm
 development, Seed
 formation, Fruit formation



26.

- All steps of DNA
 Fingerprinting +
 its Significance



- OR
 Diagrams + Explanation 2P
 2P } 5