

2014

2 20

- 1 (self tolerance)
- 2 (photoperiodic induction)
- 3 acquired immunity
- 4 animal pole vegetative pole
- 5 double fertilization
- 6 biological rhythms)
- 7 ecological niche
- 8 double messenger system
- 9 (mosaic dominance)
- 10 cell strain (cell line)

1 30

- 1
- 2
- ()

3

4 ATP

5

6

7

8

9

10

10

60

1

2

3

4

5

6

20

40

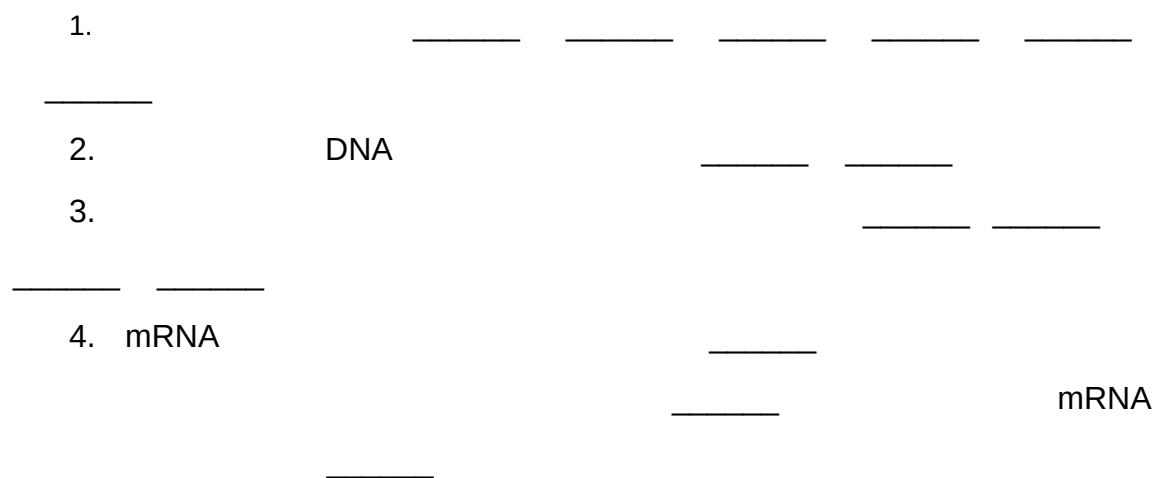
1

2.

(2 20)

1. rolling circle replication
2. prophage
3. (mutation rate)
4. cis-trans test
5. slipped mismatching
6. vector
7. multiple gene
8. RNA hnRNA, heterogeneous nuclear RNA
9. tumor suppressor gene
10. (structural genomics)

2 30



(15 60)

1. Genomics, Transcriptomeics Proteomics phenomics
- 2.
3. (transposition) (translocation)

4.

(20 40)

1 Hardy-weinberg Hardy-weinberg

2 DNA

30 3

1. isoform
2. epitope
3. lectin
4. metalloenzyme
5. leader peptide
6. protein splicing
7. RNA RNA editing
8. proteome
9. histone code
10. G G protein-coupled receptor

30 1

1. 280nm
- 2.
3. ()
()
4. PH ()
() ()
5. () ()
()
6. () ()
()
7. () ()
()

8. DNA () () ()

9. () ()

10.() ()

20 , 1
1. IgG

A. B. C. D.

2.

A. B. C. D.

3.

A B C D 2 4-

4.

A. B. C. D.

5.

A. DNA B. C. II D.

6.

A tRNA B mRNA C DNA D DNA

7. DNA ?

A B C

D 260nm

8. tRNA ?

A. mRNA B. CCA

C. tRNA D. tRNA

9.

A. B. C. D.

10.

A. B.

- C. D.
11. A. B. C. D.
12. A CoQ B FMN C Cyt D NAD
13. - CoA A. B. C. D.
14. A. B. C. 3 D.
15. A A B C C D3 D E
16. A. B. C. D.
17. DNA A B C 6- D 5-
18. A RNA DNA B DNA DNA C RNA
D RNA DNA RNA
19. RNA A. rRNA B. tRNA C. mRNA D. mRNA
20. H7N9 A. H B. N
C. H N D. H N

- ÓKÚ (x) 20 1
- 1.
- 2.
- 3.
4. DNA DNA
- 5.
- 6.

7.

8.

9.

10.

DNA

11.

β -

12.

13.

14.

15.

LDL

HDL

16.

17.

18.

19.

DNA

20.

C

N

50

25

1.

2.

3 30

1. Plasmid
2. Transposable elements
3. Bacterial conjugation
4. Rickettsia
5. Cyanobacteria
6. Strain
7. COD
8. Parasporal crystal
9. Serodiagnosis
10. Septicemia

1 20

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____

2 30

1.

- A. B. L C. D.

2.

- A. B. C. D.

3.

- A.
B.
C.
D.

4.

()

- A. B. C. D.

5.

- A. B. C. D.

6.

,

- A. 0 B. 0.2-0.7% C. 1.5-2.0% D. 5%

7.

- A. B. C. D.

8.

- A. B. C. D.

9.

DNA

- A. B. C. D.

10.

- A. B.
C. D.

11.

- A. B. C. D.

12.

- A. B.
C. D.

13.

- A. B. C. D.

14. DNA DNA

A. DNA B.

C. DNA D.

15.

A. B.

C. D.

70

1. 10

2. 10

3. 2 25

A 20g 10g 5g NaCl 5g

1000ml,pH7.4 I 5ml

B NH₄PO₄ 1g KH₂PO₄ 1g NaCl 5g MgSO₄ 0.5g

2g 18g 1000mlpH6.8 1 5ml

4. 25