

Sub Code: 16SACBC2

URUMU DHANALAKSHMI COLLEGE

TIRUCHIRAPPALLI – 620 019

B.Sc. Degree Examination, April 2020

Department : MICROBIOLOGY

Semester II

Subject Title : Allied - BIOCHEMISTRY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10×2=20)

Answer ALL the questions,

1. Plasma.
2. WBC.
3. Hormones.
4. TSH.
5. Goiter.
6. Cushing syndrome.
7. Xanthophylls.
8. Anthocyanins.
9. ABA.
10. Cytokinins.

SECTION-B (5×5=25)

Answer ALL the questions.

1. a) Give an account on composition of blood.
(or)
b) Brief note on platelets.
2. a) Write short note on pituitary glands.
(or)
b) Write brief note on parathyroid gland.
3. a) the disease associated with hyper secretions of Thyroid gland..
(or)
b) List out the metabolic functions of insulin.
4. a) Write short note on chlorophyll a.
(or)
b) Write briefly on phycobillins.
5. a) Brief note on auxin.
(or)
b) Briefly note on function of gibrellins.

SECTION-C (3×10=30)

Answer any THREE questions.

1. Discuss in detail about the process involved in blood clotting.
2. Write a detailed note on classification of hormones.
3. Give an account on diseases associated with hypo and hyper secretions of parathyroid gland.
4. Discuss in detail about the carotenoids.
5. What are Abscisic acid? Describe their applications.

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Semester II

Subject Title :Allied - BIOCHEMISTRY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10×2=20)

Answer ALL the questions,

1. Serum.
2. RBC.
3. Pancreas.
4. FSH.
5. Cretinism.
6. Simple goiter.
7. Phybillins.
8. Anthocyanins.
9. Antiauxin.
10. cytokinins.

SECTION-B (5×5=25)

Answer ALL the questions.

1. a) Give an account on characteristics of blood.
(or)
b) Brief note on function of blood.
2. a) Brief note on pituitary gland.
(or)
b) Write about the parathyroid gland.
3. a) the disease associated with hypo secretions of Thyroid gland.
(or)
b) List out the metabolic functions of insulin.
4. a) Write short note on secondary metabolites.
(or)
b) Write short notes on carotenoids.
5. a) Discuss the physiological effects of auxin.
(or)
b) Describe the structure and function of abscisic acid.

SECTION-C (3×10=30)

Answer any THREE questions.

1. Discuss in detail about the process of haematopoiesis and differentiation of blood cells.
2. Write a detailed note on pancreas.
3. Give an account on diseases associated with hypo and hyper secretions of adrenal gland.
4. Detailed study on chlorophylls.
5. Explain the structure and function of gibrellins.

URUMU DHANALAKSHMI COLLEGE
TIRUCHIRAPPALLI – 620 019
B.Sc. Degree Examination, April 2020

Department :MICROBIOLOGY Semester
:II
Subject Title :MICROBIAL METABOLISM

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10×2=20)

Answer ALL the questions,

1. Psychrophile.
2. Heterotrophs.
3. Apoenzyme.
4. Isomerase.
5. Anabolism.
6. ATP.
7. Amino acid.
8. Decarboxylation.
9. Anaerobic respiration.
10. Mixed acid fermentation.

SECTION-B (5×5=25)

Answer ALL the questions.

1. a) Give an account on the various nutritional types of microorganisms with example.
(or)
b) Brief note on continuous culture .
2. a) How to classify the enzymes?
(or)
b) What are the types of coenzymes.
3. a) Brief note on oxygenic photosynthesis.
(or)
b) Comment on Pentose pathway.
4. a) Write short note on amino acids.
(or)
b) Write briefly on peptite synthesis.
5. a) Describe the nitrate reduction.
(or)
b) Briefly note on alcoholic fermentation.

SECTION-C (3×10=30)

Answer any THREE questions.

6. Discuss in detail about the various factors influencing the growth of microorganisms.
7. Write a detailed note on properties of enzymes.
8. Describe the electron transport system and ATP production.
9. Discuss the protein synthesis.
10. Explain the lactic acid fermentation .

Sub Code : 16SCCMB2

Set:II

URUMU DHANALAKSHMI COLLEGE

TIRUCHIRAPPALLI – 620 019

B.Sc. Degree Examination, April 2020 Department

:MICROBIOLOGY

Semester :II

Subject Title :MICROBIAL METABOLISM

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10×2=20)

Answer ALL the questions,

1. Thermophile.
2. Autotrophs.
3. Holoenzyme.
4. Hydrolyse.
5. Catabolism.
6. ADP.
7. polypeptide.
8. Carboxylation.
9. Heterolactic fermentation.
10. Methanogenesis.

SECTION-B (5×5=25)

Answer ALL the questions.

1. a) Give an account on the various nutritional requirements of microorganisms with example.
(or)
b) Brief note on synchronous culture .
2. a) Brief note on properties of enzymes.
(or)
b) Write about the Isoenzymes.
3. a) Brief note on anoxygenic photosynthesis.
(or)
b) Comment on EMP pathway.
4. a) Write short note on glycine.
(or)
b) Write briefly on urea cycle.
5. a) Describe the sulfate reduction.
(or)
b) Briefly note on alcoholic fermentation.

SECTION-C (3×10=30)

Answer any THREE questions.

6. Discuss in detail about the various phases of growth curve.
7. Write a detailed note on coenzymes and cofactors give example.
8. Give a detailed account on kreb cycle .
9. Discuss the protein synthesis.
10. Explain the alcoholic fermentation .
