FYBsc Biochemist

## [maxil promition]

i. Explain with help of graphical representation lag and log phase. ii. Write a short not eon classification of microorganisms based on flagella. Q IV] 1.(A) Give example of one the following: (Any One) 12 i. What is the function of centriole? ii. Why does meosis take place in germ cell? 1. (B) Name the following: (any Three) i. ....is a basic protein present in nucleoplasm. (Histone/porine/cadherine) ii. In S-phase excess synthesis of ......protein takes place.(DNA/RNA/Protein) iii. Large protein complex present in nuclear pore is known as ...... (Nuclear pore complex /nucleolus pore complex/pore complex) iv. Pairing of homologous chromosome occurs at ...... phase. (Pachytene/Leptotene/diplotene) v. Chromosomes are held to centromere by .........Kinetochore/sat chromosome/ Chromatin) vi. Mitosis helps the cell in maintaining...... (Chromosome number/ chromosome quality/ Nuclear matrix). 2.(A) Answer the following: (Any One) i. Why carbohydrate cannot be digested in stomach? ii. What is Henle's loop? 2.(B) Answer the following: (Any Three) 13 i. Carboxypeptidase is an example of ..... (exopeptidase/endopeptidase/lipase) ii. Glucose uptake by cell through....... (Na-dependendent glucose transporter/ Na+-k+ pump/ Glucose transporter) iii. Secretin is synthesized by the mucosa of...... (serosa cell/ pancreas/ gall bladder) iv. Rennin converts casein into..... (calcium/ potassium/ milk protein) v. In the inner visceral layer of bowman's capsule a specialised cell present called.....(podocyte/ pedicel/ squamous epithellium) vi. Thin ascending loop of Henle is impermeable to .... (water/ bi carbonate/ sodium) 3.(A.) Define: (Any One) 12 i. Apoptosis. ii. Senescence 3.(B) Answer the following: (Any Three) i. Name microorganism employed in production of bread. ii. Give an example of an endospore. iii. Name the microorganism that causes cholera. iv. Abbreviation of VBNC v. Name the scientist who provided the lens used by Leewenhoek. vi. Name the kingdoms in which microorganisms are placed.

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