



NEWTON'S INN COACHING CENTRE

Preparation Paper 2023 **XI Botany (Karachi Board)**

SECTION "A"

(Multiple Choice Questions)

Q1. COVER THIS SECTION BY READING TEXTBOOK CHAPTERS, MODEL PAPER AND TEN YEARS.

SECTION "B"

(SHORT – ANSWER QUESTION)

Q2.

Q1.WHY INSECTIVORES PLANTS USE INSECT AS A FOOD OR WHAT IS FERMENTATION ALSO NAME OF ITS TYPES OR DESCRIBE THE TECHNIQUE TO ISOLATE THE COMPONENTS OF A CELL OR NOTE ON MITROCHONDIA OR WHY LYSOSOME IS CALLED SUICIDAL SAC?

Q2.WHY CHLOROPLAST IS SAID TO BE AN ENERGY CONVRERTING ORGANELLE OR WHAT IS PLASTID DESCRIBE THE TYPERS OF PLASTID OR NAME FOUR VIRAL DISESE WITH THEIR RESPECTIVE CAUSATIVE AGENTS OR WRITE A NOTE ON OXIDATIVE PHOSPHORYLATION (ELECTRON TRANSPORT CHAIN)?

Q3.DESCRIBE THE ROLE AND DEFICIENCY OF NITROGEN , POTTASIMUM PHOSPHORUS IN PLANT OR HOW PROKARYOTIC RIBOSOMES DIFFERENT FROM EUKARYOTIC RIBOSOMES ?

Q4.WHAT DO YOU MEAN BY BACTERIAL GROWTH DESCRIBE ITS PHASES. EXPLAIN THE ECONOMICAL IMPORTANCE OF BACTERIA OR WRITE THREE BACTERIAL DISEASE THAT MAN WITH SIGN AND SYMTOMS TREATMENT AND PREVENTION ?

Q5.GIVE BOTANICAL NAME OF THE FOLLOWING;

WHEAT , MAKO, BARLEY, RICE, AMALTAS,MULETHI ,RICE POTATO ALMOND , TOBACCO EDIBLE PEA , ROSE RICE, TOMATO, BRINJAL, PEA , SWEET PEA,TAMARIND

Q6.DESCRIBE THE CLASSIFICATION OF BACTERIA ON THE BASIS OF THEIR SHAPE ?

Q7.DRAW THE DIAGRAM OF THE FOLLOWING

BACTERIOPHAGE VIRUS ,PROTHALLUS , LYTIC CYCLE

Q8.HOW MANY ATP AND NADP REQUIRE TO FIX 1 CARBON, 3 CARBON, 6 CARBON AND 12 CARBON .?

Q9.WHAT FEATURES ALLOW FUNGI TO SURVIVE IN ALL ENVIRONMENT WHERE LIFE IS POSSIBLE OR NAME ONLY THE DIVISION OF TRACHEOPHYTES(VASCULAR PLANT)WITH EXAMPLES

Q10.WHY OSMOTIC ADJUSTMENT IS BENEFICIAL FOR PLANT OR WHY DESERT PLANT REDUC THEIR LEAF SIZE OR WHY INSECTIVORES PLANT USE INSECT AS A FOOD ?

Q11.WHAT DO YOU MEAN BY POSISTIVE AND NEGATIVE SENSE VIRUS OR HOW PLANT RING ARE FORMED OR HOW BACTERIA INCREASE SOIL FERTILITY OR METHOD OF GENETIC RECOMBINATION IN BACTERIA ?

Q12.WHY DESERT PLANTS REDUCE THEIR LEAF SIZE OR WHY WE SAY THAT ULVA HAS ISOMORPHIC ALTERNATION OF GENERATION ?

Q13. WHY PHOTORSPIRATION IS WASTEFUL PROCESS ?

Q14. DIFFERENCE BETWEEN ;

PROKARYOTES AND EUKARYOTES

PRIONS AND VIROIDS

BACTERIA AECHEA EUKARYA

GRAM POSITIVE AND GRAM NEGATIVE BACTERIA

PEROXISOMES AND GLYOXISOMES

RACEMOSE AND CYMOSE INFLORENSCENE

AEROBIC AND ANAEROBIC BACTERIA

MONOCOT AND DICOT

Q15.DEFINE THE FOLLOWING

DOUBLE FERTILIZATION ,HETEROSPORY ,BACTERIOPHAGE.

Q16. WHY PROTOCTISTA CONSIDERED AS POLYPHELETIC KINGDOM ?

Q17. SHORT NOTE ;LYSOSOMAL STORAGE DISEASE ,NUCLEUS, EVALUTION OF LEAF , ECONOMIC IMPORTANCE OF FUNGI

Q18 WHAT ARE THE DOMAIN OF CLASSIFICATION ? DIFFERENCIATE THEM

SECTION “C”
(Detailed Answer Questions)

- Q1.EXPLAIN STRUCTURE AND PROPERTIES OF PLASMA MEMBRANE WITH DIAGRAM **OR** LIGHT INDEPENDENT REACTION C3 CYCLE (Calvin cycle) OF PHOTOSYNTHESIS IN DETAIL **OR** DESCRIBE THE PROCESS OF GLYCOLYSIS ALSO DRAW A FLOW CHART **OR** DESCRIBE LIFE CYCLE OF BACTERIOPHAGE WITH LABELED DIAGRAM?
- Q2.WHAT ARE GROWTH REGULATORS NAME AND DISCUSS FIVE IN DETAIL **OR** EXPLAIN THE LIFE CYCLE OF MOSS WITH THE HELP OF DIAGRAM **OR** DISCUSS THE CATOGORIZATION OF PLANTS BASED ION OSMOTIC ADJUSTMENT ?
- Q3.DESCRIBE STRUCTURE OF BACTERIUM WITH DIAGRAM ?
- Q4.DESCRIBE THE STRUCTURE AND REPRODUCTION IN ULVA WITH REFERENCE TO ISOMORPHIC ULTERNATION OF GENERATION WITH DIAGRAM?
- Q5. DEFINE HIV . DESCRIBE THE DISEASE CAUSED BY THEM **OR** DESCRIBE THE LIFE CYCLE OF FERN WITH LABELLED DIAGRAM?

Prepared By:

Dr. Kinza

(Pharm-D) Karachi University