

# PPSC LECTURER BIOLOGY PAPER HELD ON 15-06-2015

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*Way to Knowledge*



- 1) RHYNIA was discovered by?  
Robert kidstone
- 2) Nucleoli seem to appear in?  
Telophase
- 3) How many types of t-RNA are found in eukaryotic cell?  
????
- 4) Inactive enzyme precursor such as pepsinogen for pepsin is called?  
Zymogen
- 5) Which of the following tissue is involved in strengthening of plant body?  
Sclerenchyma
- 6) Sex linked genes refer to genes?  
Present on sex chromosomes
- 7) Gastric digestion takes place efficiently in \_\_\_\_ medium?  
Acidic
- 8) Which of the following sub cellular component is likely to be absent in a plant root?  
Chloroplast
- 9) Which of the following is primary or transitional meristem?  
Apical meristem
- 10) Cancer causing genes are called?  
Oncogenes
- 11) First step in photosynthesis is?  
Excitement of an electron of chlorophyll by photon of light
- 12) Copper is associated with which of the following mitochondrial enzyme?  
Cytochrome
- 13) Photosynthesis is most active in?  
Red light (from the given options that is correct)
- 14) Proteins that are used only outside of cell are synthesized on?  
RER
- 15) The universal hydrogen acceptor is?  
NADP
- 16) Enzyme which in not proteinaceous in nature?  
Ribozymes
- 17) Algae and other plants submerged in water float during day and time and sink at night because?  
They become buoyant due to accumulation of oxygen as a result of photosynthesis
- 18) Bacterial resistance to antibiotic is a genetic trait that is carried in the bacterial cell in?

Plasmid

19) Where bile is produced?

Liver

20) In photosynthesis hydrogen is transformed from light reaction to dark reaction by?

NADP

21) Byproduct of bacterial photosynthesis?

22) A person with fever feels faster breathing due to?

Increased body temperature

23) Genetic recombination takes place during which phase of meiosis?

Meiotic phase I

24) Maximum possible volume of air during inspiration is called?

Tidal lung capacity

25) Largest gland in human body?

Liver

26) Which is mucopolysaccharide?

Chitin

27) Covering of lungs is called?

Pleural membrane

28) Okazaki fragments are studied in?

DNA replication

29) During hibernation frog respire by?

Skin only

30) In pigment photosystem II, entrapping centre of solar energy is?

P680

31) How many quanta are required to reduce one molecule of  $\text{CO}_2$ ?

8

32) Intervening sequence of gene is called?

Introns

33) Nature of blood in ABO blood group system?

All statements were doubtful but from given statements 'o' is correct

34) Where enzyme catalyzes peptide bonding is located?

Larger subunit of ribosome

35) Specific function of liver is?

Glycogenesis and gluconeogenesis

36) In blue green algae photosynthesis is taken place in?

Thylakoids( they are enfolding of cell membrane but not true thylakoids)

37) Which amino acid has single codon?

Tryptophan

38) Which enzyme catalyzes the unwinding of DNA double helix?

Helicase

- 39) If chlorophyll is burnt what will be left?  
 $Mg^{+2}$
- 40) Enzyme involved in interconversion of relaxed and super coiled form of DNA molecule?  
Topoisomerases
- 41) Actual percentage of water used during photosynthesis?  
1%
- 42) Pancreas consists of what type of cells?  
Exocrine and endocrine cells
- 43) Photosynthesis is responsible for existence of?  
Both plants and animals
- 44) Tropical plant like sugarcane show high efficiency of  $CO_2$  fixation because of?  
Hatch-slack cycle
- 45) Which one is tightly bounded to the cell membrane?  
Adenylate cycles
- 46) How we can determine the age of oak tree?  
Secondary xylem and vascular cambium
- 47) Oxygen in glucose comes from?  
Carbon dioxide
- 48) Plant organs are formed by the meristem?  
Apical
- 49) Who received noble prize for working on carbon dioxide fixation firstly?  
Huber and Michel
- 50) Which teeth are different in size and function?  
Heterodont
- 51) In plants gametes are produced?  
Soon after meiosis
- 52) What is a bolus?  
A mechanically crushed food mixed with saliva
- 53) Amount of oxygen carried by 100ml of blood?  
20 ml
- 54) Hardest part of teeth is called?  
Enamel
- 55) Which is true for bryophytes?  
Sorry option yad nhe a rha
- 56) If  $CO_2$  concentration increases in blood the breathing shall be?  
Increases
- 57) Curding of milk in stomach is due to?  
Rennin
- 58) Character of gymnosperm?  
Naked seeded plants



- 59) *Musca domestica* is the scientific name of?  
House fly
- 60) Inherited behavior is called?  
Instinct or innate both are same
- 61) The end part of chromosome is called?  
Telomere
- 62) Which taxa are not included by vonn linne?  
Main domain lgaya WO wrong ha correct wala mila nhe
- 63) Change in gene frequency by chance is called?  
Genetic drift
- 64) No of ATP produced by each NADPH is?  
3
- 65) True bacteria belong to?  
Eubacteria
- 66) Eukarya were formed----- million years ago?  
1.5 million
- 67) Who coined the term protoplast for the first time?  
Hanstain
- 68) Group with unknown evolutionary relation?  
Paraphyletic
- 69) Similarity between bird wing and insect wing is?  
Analogy
- 70) Algae rich in protein?  
Spirulina
- 71) Which of the following systematic have traditional approach?  
No idea na he net say mila numerical evolutionary and phyletic option thay
- 72) Plant hormone causing abscission, leaf senescence, bud dormancy and inhibition of cell division?  
Abscic acid
- 73) Asymmetric animal is?  
Sponge
- 74) Pentaradial symmetry is present in?  
Star fish
- 75) Vascular cryptograms are?  
Pteridophytes
- 76) In brassica the placentation is?  
Parietal
- 77) Hydroskeleton is found in?  
Earthworm
- 78) Which of the following essential element can plant normally obtain directly from air?

Carbon

79) In mustard flowers are?

Perigynous

80) In alpha helix H-bond present between one and----- amino acid?

Other amino acid

81) Mesenteries are found in?

Diploblastic (class anthozoa)

82) Sexual reproduction in flowering plant was discovered by?

Camerarius

83) Which of following determine rate of transpiration in plant?

Potometer

84) Ascaris is?

Pseudocoelomate

85) Alga found on molluscan shell?

Cladophora

86) Protein part of enzyme?

Apoenzyme

87) Cap cells are found in?

Vaucheria

88) Open water at sea floor is called?

Benthic zone

89) Pesticides comprises of?

Fungicide, insecticide, rodenticide, Herbicides

90) Lichens are composite organs consisting of?

Algae and fungi

91) Mutation term was introduced by?

De varies

92) Photosynthesis and respiration require?

Cytochromes

93) PUFF in insects is controlled by

Ecdysozoan

94) Not the character of most plants?

Presence of centrioles in living cells

95) Which one is not a connective tissue

Nerve

96) Which of the following is synthesized first during photosynthese

Simple sugar

97) Aquatic animals with large surface area breath through

Gills ( not sure)



- 98) If a mutation occur by chance in gamete  
Only a single individual is mutated
- 99) Deletion or insertion of a nucleotide cause  
Frame shift mutation

