

# DPP

DAILY PRACTICE PROBLEMS

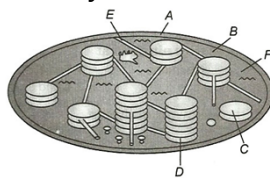
Class : XI<sup>th</sup>  
Date :

Subject : BIOLOGY  
DPP No. : 1

## Topic :- Cell the Unit of Life

- What are those structures that appear as 'beads-on-string' in the chromosomes when viewed under electron microscope?  
a) Nucleotides                      b) Nucleosomes                      c) Base pairs                      d) Genes
- The two polynucleotide chains in DNA are  
a) Parallel                      b) Discontinuous                      c) Antiparallel                      d) Semi-conservative
- Centrosome is not present in  
a) Cell of higher plants                      b) Cell of lower plants  
c) Cell of higher animals                      d) Cell of lower animals
- Channel proteins are involved in  
a) Transport of enzymes                      b) Water transport  
c) Active transport of ions                      d) Passive transport of ions
- Part of chromosome after secondary constriction is called  
a) Centriole                      b) Centromere                      c) Chromomere                      d) Satellite
- Tubulin protein occurs in  
a) Digestive enzymes                      b) Rough endoplasmic reticulum  
c) Thylakoids                      d) Microtubules
- Quantasomes are found in  
a) Mitochondria                      b) Chloroplast  
c) Lysosome                      d) Endoplasmic reticulum
- In which one of the following would you expect to find glyoxysomes?  
a) Endosperm of wheat                      b) Endosperm of castor  
c) Palisade cells in leaf                      d) Root hairs
- The non-membranous organelles are  
a) Centrioles                      b) Ribosomes                      c) Nucleolus                      d) All of these

10. Single stranded DNA is found in  
 a) Polio viruses                      b) Rich dwarf virus                      c) TMV                      d)  $\phi \times 174$
11. Ribosomes that occur exclusively in mitochondria is  
 a) 70 S                      b) 55 S                      c) 30 S                      d) 50 S
12. Number of protofilament in microtubule is  
 a) 13                      b) 12                      c) 5                      d) 10
13. ...A... are granular structures first observed under electron microscope as dense particles by ...B... (1953). Here, A and B refer to  
 a) A-Ribosomes; B-Perner                      b) A-Lysosomes; B-de Duve  
 c) A-Peroxisomes; B-Flemming                      d) A-Ribosomes; B-George Palade
14. Middle lamella is present  
 a) Inside the secondary wall                      b) Inside the primary wall  
 c) Outside the primary wall                      d) In between secondary and tertiary walls
15. Rough endoplasmic reticulum differs from smooth walled endoplasmic reticulum due to the presence of  
 a) DNA                      b) Nucleus                      c) Ribosomes                      d) Ergastic substance
16. A widely accepted, improved model of cell membrane is  
 a) Fluid mosaic model                      b) Robertson's model  
 c) Danielli and Davson's model                      d) Unit membrane model
17. Organelle important in spindle formation during nuclear division is  
 a) Golgi body                      b) Chloroplast                      c) Centriole                      d) Mitochondrion
18. Identify *A* to *F* in the sectional view of a chloroplast showing the different parts



- a) A-Inner membrane, B-Granum, C-Outer membrane, D-Stroma lamella, E-Stroma, F-Thylakoid  
 b) A-Outer membrane, B-Inner membrane, C-Granum, D-Thylakoid, E-Stroma lamella, F-Stroma  
 c) A-Thylakoid, B-Outer membrane, C-Stroma, D-Stroma lamella, E-Granum, F-Inner membrane  
 d) A-Outer membrane, B-Stroma, C-Inner membrane, D-Granum, E-Thylakoid, F-Stroma lamella

19. Consider the following statements and choose the correct one
- a) Plant cells have centrioles which are absent in almost all animal cells
  - b) Ribosomes are the site of protein synthesis
  - c) The middle lamella is layer mainly of calcium carbonate which holds the different neighbouring cells together
  - d) In animal cells, steroidal hormones are synthesised by smooth endoplasmic reticulum
20. The backbone of RNA consists of which of the following sugar?
- a) Deoxyribose
  - b) Ribose
  - c) Sucrose
  - d) Maltose