

PG-CET-BOTANY
PRACTICE BITS ON “CELL-BIOLOGY” - 2

- 31) Part of chromosome which Joins with spindle fibre is [3]**
1) Centromere 2) Chromatid 3) Kinetochore 4) Telomere
- 32) Which of the following does not contain DNA? [2]**
1) Mitochondria 2) Peroxisome 3) Chloroplast 4) Nucleus
- 33) Cluster of Ribosomes may also be called as [1]**
1) Ergosomes 2) Dictyosome 3) Microsome 4) Oxysomes
- 34) The chromosome in which centromere lies slightly away from the middle of the chromosome resulting in one shorter arm and one longer arm is called [2]**
1) Metacentric 2) Sub-metacentric 3) Acrocentric 4) Telocentric
- 35) Which of the following fungi are an example for “coenocytic”? [3]**
1) Ascomycetes 2) Basidiomycetes 3) Phycomycetes 4) Deuteromycetes
- 36) Total number of nucleotides found in linker DNA of Nucleosome? [2]**
1) 54 2) 108 3) 146 4) 292
- 37) Shape of Chromosomes can be observed during [3]**
1) Prophase 2) Metaphase 3) Anaphase 4) Telophase
- 38) Longest chromosomes of plant kingdom are found in [3]**
1) Tulip 2) Tephrosia 3) Trillium 4) Lilium
- 39) Highest number of Chromosomes is found in [4]**
1) Pinus 2) Haplopappus 3) Anthoceros 4) Ophioglossum
- 40) How many chromosomes are found in PEN of Haplopappus? [3]**
1) 2 2) 4 3) 6 4) 8
- 41) Which of the following does undergo in binary fission? [4]**
1) Bacteria 2) Chloroplast 3) Mitochondria 4) All of these
- 42) Find out the mis match [2]**
1) Mitochondria - power houses of the cell 2) RER - Protein factories
3) Nucleolus – Ribosomal factories 4) Chloroplast - Kitchen of the cell
- 43) Which part of animal cell is important for spindle formation during nuclear division? [3]**
1) Golgi complex 2) Chloroplast 3) Centriole 4) Mitochondrion

- 44) Red colour of tomato is due to** [4]
1) B-carotene 2) Anthocyanin 3) Phycoerythrin 4) Lycopene
- 45) Mitochondria are semi-autonomous as they possess** [3]
1) DNA 2) DNA and RNA 3) DNA, RNA and ribosomes 4) None of these
- 46) Find out the correct match** [1]
1) Chromoplasts - Contain pigments other than chlorophyll
2) Amyloplasts - Store proteins
3) Aleuroplasts - Store oils and fats
4) Elaioplasts - Store carbohydrates
- 47) The two subunits of ribosome remain united at a critical ion level of** [2]
1) Cu 2) Mg 3) Mn 4) Ca
- 48) What is the nature of inner envelops of chloroplast and mitochondria?** [4]
1) Permeable 2) Impermeable 3) Semi permeable 4) Selectively permeable
- 49) Which of the following cell organelles is rich in catabolic enzymes?** [2]
1) Chloroplast 2) Mitochondria 3) Golgi complex 4) Vacuole
- 50) Chlorophyll in chloroplasts is located in/on** [1]
1) Grana 2) Lumen 3) Stroma 4) Both (1) and (3)
- 51) When an animal cell is kept in pure water, it swells and burst, but when a plant cell is placed in pure water, it will** [2]
1) Become flaccid 2) become turgid 3) burst 4) no change
- 52) Pits are formed on the cells wall due to lack of** [4]
1) cell membrane 3) Primary cell wall material
2) Middle lamellum 4) Secondary cell wall material
- 53) Middle lamellum is present** [1]
1) Outside the primary cell wall
2) Between the primary cell wall and secondary cell wall
3) Between the primary wall & cell membrane
4) Inside the primary cell wall
- 54) Which structure performs the function of Mitochondria in Bacteria?** [4]
1) Glycocalyx 2) Cell wall 3) Chromatophores 4) Mesosomes
- 55) The inner most layer of the cell envelope in bacterial cell is** [1]
1) Plasma membrane 2) Middle lamellum 3) cell wall 4) Glycocalyx

- 56) Find out the wrong statement [4]**
- 1) In Eukaryotes, both nuclear envelope histones are found
 - 2) In Mesokaryotes, histones are present & nuclear envelope is absent
 - 3) In prokaryotes, both nuclear envelope and histones are absent
 - 4) In Mesokaryotes, nuclear envelope is present & histones are absent
- 57) Cell theory is not applicable to [4]**
- 1) virus 2) Prion 3) viroid 4) All of these
- 58) Basic protein of eukaryotic cilia & flagella is [3]**
- 1) Flagellin 2) Actin 3) Tubulin 4) Pilin
- 59) Coenocytic condition is not found in [2]**
- 1) Liquid endosperm 2) Basidiomycetes 3) Tapetum of anther 4) Slime moulds
- 60) What is the difference between mitochondria and chloroplast from the following? [3]**
- 1) ATP synthesis
 - 2) Both are semiautonomous organelles
 - 3) ATPase is found on the surface of the inner membranes
 - 4) Both are double membrane bound organelles

ALL THE BEST

**By
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