

NDA PREVIOUS YEAR BIOLOGY QUESTIONS ANALYSIS

By:- Navneet Kumar

- Diseases (AIDS)
- Prokaryotic cell (Not a part)
- Respiration
- Classification of plants (Bryophyta)
- Classification of organisms (Higher to lower)
- Plant tissue (Meristems)
- Nervous system (Element transfer electric signal)
- Cell (Discovery)
- Food chain (Order)
- Tissue (Contractile tissue)
- Digestive system (Stomach acid)

2018 - II

- Phytoplankton, algae (Statement)
- Cell organelles (Contains DNA)
- Cell (SRM function)
- Tissue (Meristem)
- Classification of organisms (Unicellular)
- Diseases (Water borne)
- Digestive system (Stomach acid)
- Circulatory system (Oxygenated blood)
- Photosynthesis (Oxygen came from)
- Nervous system (Order)



- Cell organelles (Not posses Nucleic acid)
- Cell organelles (Not posses genetic material)
- Plant tissue (Conducting tissue)
- Tissue (Vascular tissue)
- Food chain (Primary consumers)

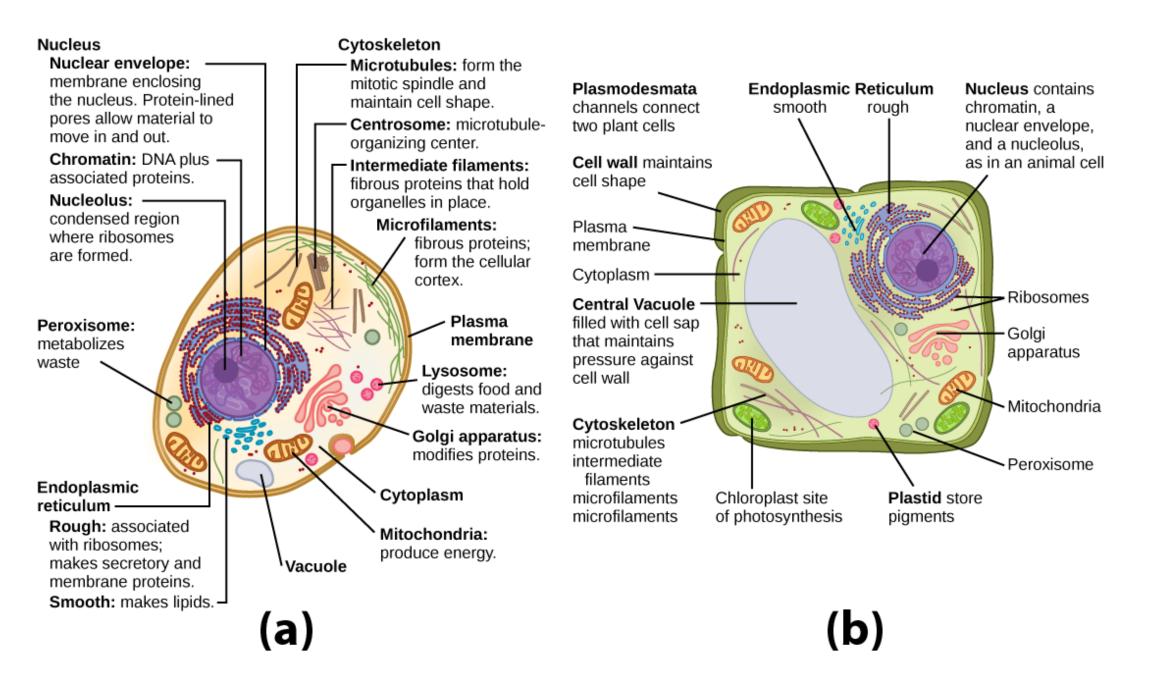
2019 - II

- Cell (Movement of water)
- Cell organelles (Mitochondria)
- Tissue (Blood)
- Plant tissue (Statement)
- Taxonomy (Embryological character)
- Glands (Thyroid gland)
- Diseases (Human)
- Virus (Statement)
- Vitamins (Vitamin 'C')

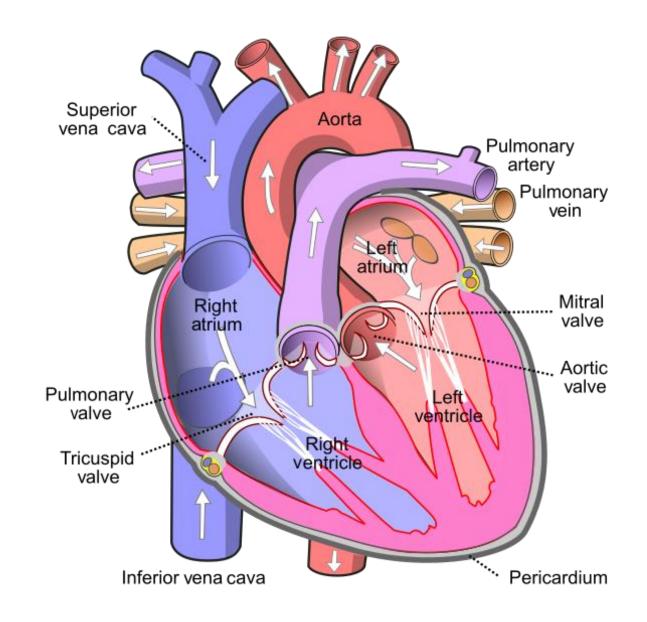
2020 - (1) & (11)

- Cell organelles (Role when excess water)
- Elements (Treatment of cancer)
- Diseases (Antibiotic of virus)
- Plant tissue (Dead cell)
- Prokaryotic organism (Membrane)
- Cartilage not found in organ
- Human eye (Image formation organ)
- Reproduction (Male reproductive system)
- Biodiversity

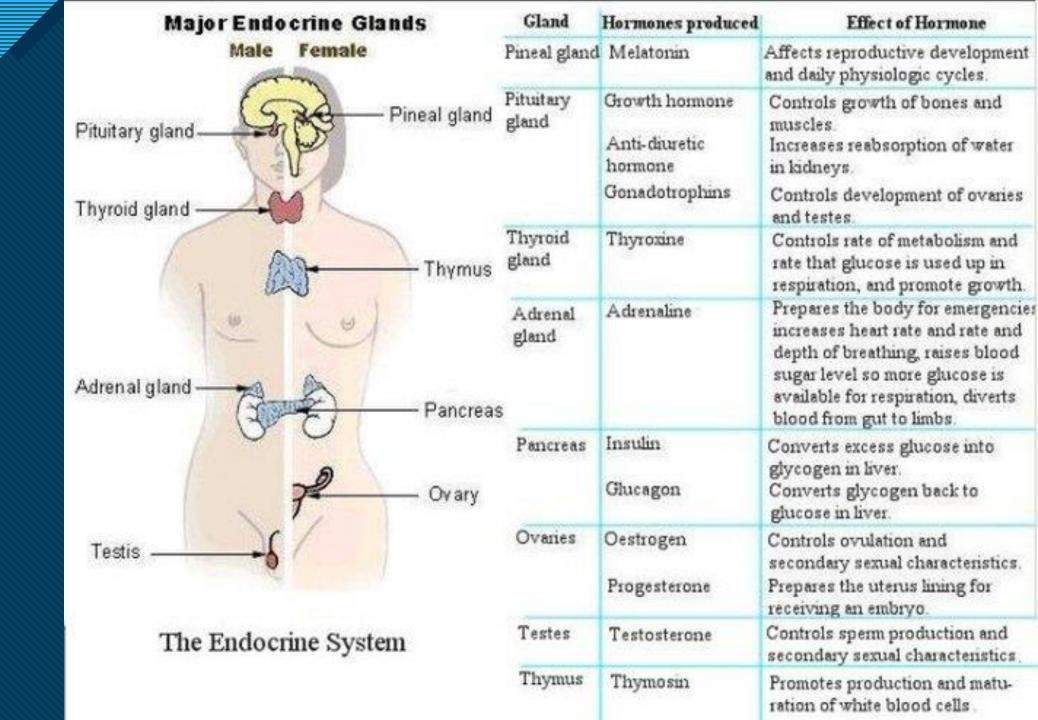
CELL ORGANELLES AND ITS FUNCTIONS



CIRCULATORY SYSTEM



ENDOCRINE GLANDS



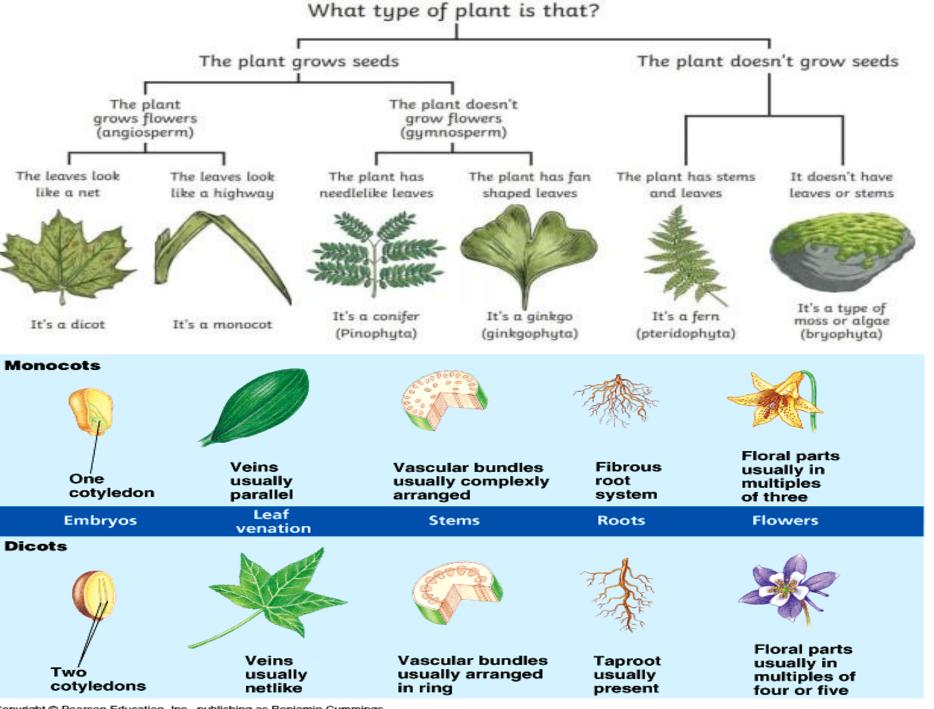
VITAMINS AND THEIR DEFICIENCY DISEASES

| | Vitamin/Mineral | <u>Deficiency Disease/</u> <u>Disorder</u> | Available From | | |
|----|---------------------------------|---|---|--|--|
| | 1. Vitamin A (Retinol) | Night blindness, poor vision | spinach, carrot, mangoes, butter | | |
| | 2. Vitamin B1 (Thiamine) | Beriberi, extreme weakness | eggs, meat, yeast, mushrooms, tomatoes | | |
| | 3. Vitamin B2 (Riboflavin) | Retarded growth, bad skin | green leafy vegetables, milk, yogurt, egg | | |
| | 4. Vitamin B3 (Niacin) | Diarrhea, dementia | mushroom, peanut, almond, lentil, barley | | |
| 5. | 5. Vitamin B7 or Vitamin H | Dermatitis, Hair Loss | green leafy vegetables, most nuts, avocado, | | |
| | (Biotin) | Dermatitis, Hair Loss | banana | | |
| | 6. Vitamin B12 (Cyanocobalamin) | Anaemia | fortified cereals, meat, egg | | |
| | 7. Vitamin C (Ascorbic Acid) | Scurvy, Swelling of Gums | lemon, oranges, avocado | | |
| | 8. Vitamin D (Calciferol) | Rickets & brittle bones in children which break and bend easily | milk, fish, liver-oil, mushrooms, sunlight | | |
| | 9. Vitamin E (Tocopherol) | Less Fertility | almonds, sunflower seeds, most nuts & seeds | | |
| | 10. Vitamin K (Phylloquinone) | Non-Clotting of Blood | green leafy vegetables, carrots | | |
| | | | | | |

Minerals

| , L | | | | | |
|-----------------|---------------------------------|--|--|--|--|
| 11. Calcium | Brittle bones, tooth decay | milk, green leafy vegetables | | | |
| 12. Phosphorous | Bad teeth and bones | pulses, cereals, milk | | | |
| 13. Iodine | Goitre, enlarged thyroid gland | fish, table salt | | | |
| 14. Potassium | Cardiac Arrest | fish, bananas, mushrooms, dates, raisins | | | |
| 15. Copper | Low apetite, retarded growth | pulses and leafy vegetables | | | |
| 16. Iron | Anemia, lack of red blood cells | almonds, dates, green leafy vegetables, raisins | | | |
| | | | | | |

CLASSIFICATION **OF PLANTS**



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Phytohormones

(Plant hormones)







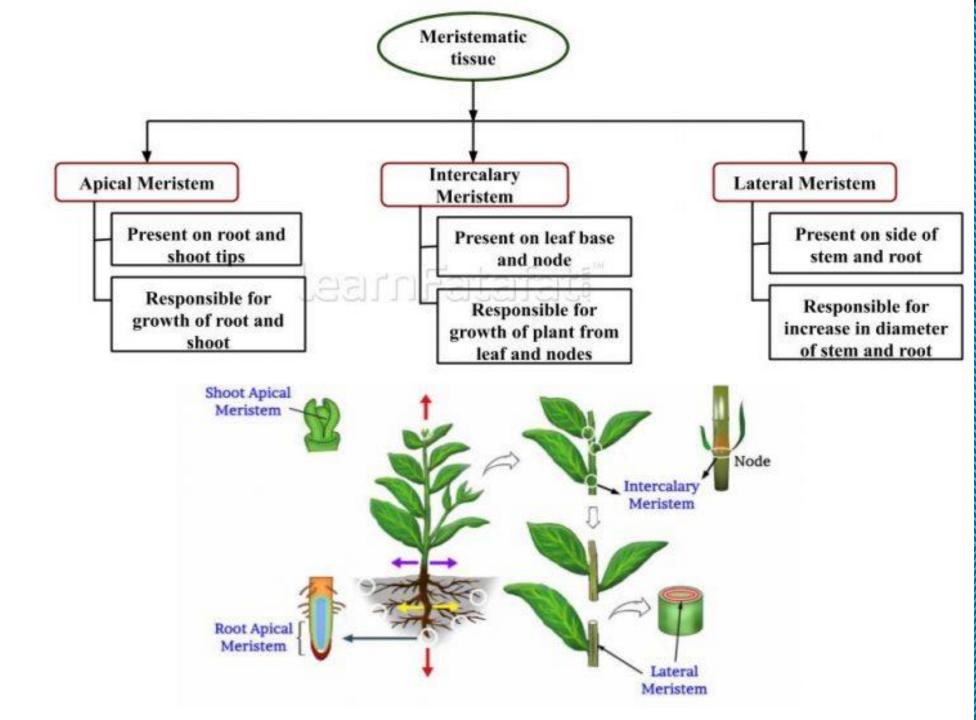




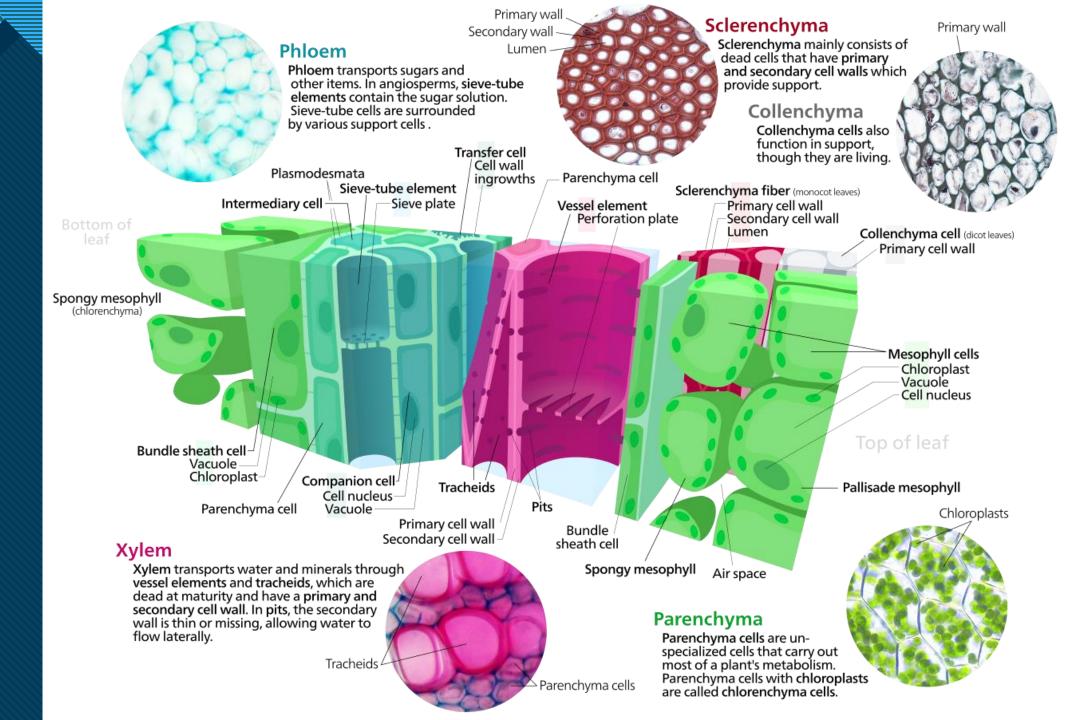
PLANT HORMONES

| | Germination | Growth to Maturity | Flowering | Fruit Development | Abscission | Seed Dormancy |
|---------------|-------------|-----------------------|-----------|----------------------|------------|------------------|
| Gibberellin | | Ø | Ø | | | |
| Auxin | | Ø | Ø | | | |
| Cytokinins | (| 0 | 0 | | Ø | |
| Ethylene | | (| | | | (X) |
| Abscisic Acid | Ø | Ø | (| | | |

SIMPLE PLANT TISSUE



Plant permanent tissue



Thank You