

1.

Photosynthesis occurs in the

- (A) nucleus
- (B) cell wall
- (C) chloroplast
- (D) mitochondrion

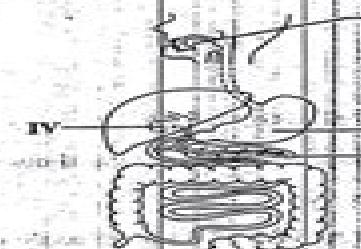
- 2 -

2.

The structure responsible for the transfer of characteristics from parents to offspring is found in the

- (A) vacuole
- (B) cytoplasm
- (C) chromosome
- (D) cell membrane

Items 3-4 refer to the following diagram of the human digestive tract.



3.

The organ labelled IV is the

- (A) liver
- (B) stomach
- (C) pancreas
- (D) gall bladder

4.

Hydrochloric acid is produced in

- (A) I
- (B) II
- (C) III
- (D) IV

5.

Which of the following pollutant gases combines with the haemoglobin in red blood cells?

- (A) Methane
- (B) Sulphur dioxide
- (C) Nitrogen dioxide
- (D) Carbon monoxide

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[Yearbook of International Organizations 2014-2015, Volumes 1a & 1b \(Set\)](#) Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

Towards an Integrated Approach to Measurement, Analysis and Modeling of Cortical Networks A. Ravishankar Rao, Guillermo A. Cecchi, Ehud Kaplan, 2016-03-17 The amount of data

being produced by neuroscientists is increasing rapidly driven by advances in neuroimaging and recording techniques spanning multiple scales of resolution The availability of such data poses significant challenges for their processing and interpretation To gain a deeper understanding of the surrounding issues the Editors of this e Book reached out to an interdisciplinary community and formed the Cortical Networks Working Group and the genesis of this e Book thus began with the formation of this Working Group which was supported by the National Institute for Mathematical and Biological Synthesis in the USA The Group consisted of scientists from neuroscience physics psychology and computer science and meetings were held in person A detailed list of the group members is presented in the Editorial that follows At the time we started in 2010 the term big data was hardly in existence though the volume of data we were handling would certainly have qualified Furthermore there was significant interest in harnessing the power of supercomputers to perform large scale neuronal simulations and in creating specialized hardware to mimic neural function We realized that the various disciplines represented in our Group could and should work together to accelerate progress in Neuroscience We searched for common threads that could define the foundation for an integrated approach to solve important problems in the field We adopted a network centric perspective to address these challenges as the data are derived from structures that are themselves network like We proposed three inter twined threads consisting of measurement of neural activity analysis of network structures deduced from this activity and modeling of network function leading to theoretical insights This approach formed the foundation of our initial call for papers When we issued the call for papers we were not sure how many papers would fall into each of these threads We were pleased that we found significant interest in each thread and the number of submissions exceeded our expectations This is an indication that the field of neuroscience is ripe for the type of integration and interchange that we had anticipated We first published a special topics issue after we received a sufficient number of submissions This is now being converted to an e book to strengthen the coherence of its contributions One of the strong themes emerging in this e book is that network based measures capture better the dynamics of brain processes and provide features with greater discriminative power than point based measures Another theme is the importance of network oscillations and synchrony Current research is shedding light on the principles that govern the establishment and maintenance of network oscillation states These principles could explain why there is impaired synchronization between different brain areas in schizophrenics and Parkinson s patients Such research could ultimately provide the foundation for an understanding of other psychiatric and neurodegenerative conditions The chapters in this book cover these three main threads related to cortical networks Some authors have combined two or more threads within a single chapter We expect the availability of related work appearing in a single e book to help our readers see the connection between different research efforts and spur further insights and research White Paper on Science and Technology ,2015 Mechatronic Systems and Materials VIII Zdzisław Gosiewski,Zbigniew Kulesza,2017-07-12 12th MSM Selected peer reviewed papers from the 12th

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