1. The process by which a living cell absorbs molecules or substances from outside the cell by engulfing it with the cell membrane is known as:
   a) Lysis  
   b) Endocytosis  
   c) Ubiquitination  
   d) None of the above

2. The sequence followed by vesicles during endocytosis in plants is:
   i) Early endosomes  
   ii) Late endosomes  
   iii) Lysosomes
   a) i, ii, iii  
   b) ii, iii, i  
   c) iii, i, i  
   d) None of the above

3. pH of organelles ____________ during movement of vesicle from early endosome to lysosome changes.
   a) Increases  
   b) Decreases  
   c) Remains constant  
   d) Cannot be predicted

4. Exocytosis process includes:
   a) Outward movement of protein from the cell  
   b) Inward movement of protein to the cell  
   c) Both a & b  
   d) None of the above

5. In endocytosis process the plant’s cargo vesicles are covered with coat proteins that are made up of:
   a) Clathrin  
   b) Myosin  
   c) Actin  
   d) Lignin

6. Clathrin molecules are:
   a) Triskelion in shape  
   b) Three heavy chains  
   c) Three light chains  
   d) All of the above

7. COPII vesicles originate from which organelle?
   a) Golgi  
   b) Endoplasmic reticulum  
   c) Lysosome  
   d) Endosomes

8. Adaptor proteins forming a heterotetrameric complex with clathrin consist of:
   a) α / € and β large subunits  
   b) μ medium subunits  
   c) Sigma small subunit  
   d) All of the above

9. Endocytosis and exocytosis are:
   a) Active processes  
   b) Passive processes  
   c) Both a & b  
   d) None of the above

10. Fusion of protein containing specific vesicles to target membrane occurs in the presence of:
    a) V-SNARE  
    b) T-SNARE  
    c) Both a & b  
    d) None of the above

11. SNARE hypothesis was given by:
    a) Mendel  
    b) Rothman  
    c) Watson & Crick  
    d) Camillo Golgi

12. The process that combines both endocytosis and exocytosis?
    a) Pinocytosis  
    b) Phagocytosis  
    c) Transcytosis  
    d) None of the above

13. COPI coated vesicle transports vesicle from:
    a) Golgi to Endosome  
    b) Plasma membrane to Endosome  
    c) ER to Golgi complex  
    d) Golgi complex to ER

14. A specific one letter code in ER resident protein is:
    a) KKXX  
    b) KDEL  
    c) KELD  
    d) None of the above

15. A process of self-digestion is known as:
    a) Heterophagy  
    b) Autophagy  
    c) Both a & b  
    d) None of the above

16. During phagocytosis cells engulf large particles as:
    a) Bacteria  
    b) Cell debris  
    c) Intact cell  
    d) All of the above

17. Term endocytosis was given by
    a) Christian deDuve  
    b) Rudolf Virchow  
    c) John Dalton  
    d) Charles Darwin

Answers:
1) b  
2) a  
3) b  
4) a  
5) a  
6) d  
7) b  
8) d  
9) a  
10) c  
11) b  
12) c  
13) d  
14) b  
15) b  
16) d  
17) a

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Computer Hardware

1. What is the common hardware device used as Visual Display Unit in a Personal Computer set?
   a) Projector   b) Monitor
c) Picture tube   d) Displayer

2. Hardcopy of a softcopy is obtained through this common hardware in a PC.
   a) Printer   b) Writer
c) Xerox   d) Harder

3. This is the very common audio output device for a Personal Desktop Computer or Laptop.
   a) Mike   b) Announcer
c) Speaker   d) Louder

4. A very common pointing device used in today’s computers, invented by Douglas Engelbert:
   a) Pointer   b) Mouse
c) Clicker   d) Sticker

5. Only hardware used for typing and providing written instructions to a computer:
   a) Keyboard   b) Mouse
c) Typer   d) Writer

6. A computer vector graphic printer that draws pictures on paper based on commands from a computer using a pen:
   a) Hoarder   b) Displayer
c) Projector   d) Plotter

7. This is non volatile data storage device with generally higher capacity of data storage, which can be accessed in a random-access manner.
   a) Hard disk   b) Soft disk
c) Cold disk   d) Data disk

8. The memory chips that are the part of primary memory of a computer and can be accessed randomly:
   a) ROM chips   b) RAM chips
c) Prime chips   d) Random chips

9. This hardware piece is installed on the motherboard, known as the brain of the computer:
   a) Centre heart   b) Processor
c) Silicon   d) Heartware

10. Usually an Empty box with space for installation of hard disk, motherboard, disk drives and almost for everything in the CPU:
   a) Cabinet   b) Drum
c) Monitor   d) UPS

11. A device that connects devices together on a computer network and forwards data to devices that need to receive it, rather than broadcasting to all connected devices:
   a) Network switch   b) Connector
c) Combiner   d) Interface

12. A hardware input device in the form of a light-sensitive wand which allows the user to point to displayed objects or draw on the screen with greater positional accuracy:
   a) Alto   b) Displayer
c) Light pen   d) Stick pen

13. A common gaming input device consisting of a stick that pivots on a base and reports its direction to the device it is controlling:
   a) Gamer   b) Ingame
c) Joystick   d) Batin

14. An Input device that converts documents and photographic prints into digital form:
   a) Scanner   b) Transferer
c) Digiter   d) Xerox

15. A networking hardware that forwards data packets between computer networks and controls the data traffic in a network:
   a) Networker   b) Network switch
c) Router   d) HUB

16. This is an optical storage hardware similar to CDs, having higher capacity of data storage and more robust in nature.
   a) DVD   b) Floppy
c) Optimiser   d) Opticodisk

17. Very common backup hardware used for no power interruption in the computer functioning while power supply is off:
   a) PSU   b) CPU
c) UPS   d) ALU

Answers:

1) b  2) a  3) c  4) b  5) a  6) d  7) a  8) b  9) b  10) a  11) a  12) c  13) c  14) a  15) c  16) a  17) c

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