- 1. The chlorophyll in photosynthesis is used for
 - I. Absorbing light
 - II. Breaking down water molecule
 - III. No function
 - IV. Reduction of CO₂
- 2. Proteins after digestion are converted into
 - I. Carbohydrates
 - II. Small globules
 - III. Amino acids
 - IV. starch
- 3. Carbohydrates in the plants are stored in the form of
 - I. Glycogen
 - II. Starch
 - III. Glucose
 - IV. Maltose
- 4. Main site of photosynthesis
 - I. Leaf
 - II. Stem
 - III. Chloroplast
 - IV. Guard cells
- 5. The small pores present of leaf's surface are called
 - I. Stomata
 - II. Chlorophyll
 - III. Guard cells
 - IV. None of these
- **6.** Photosynthesis is a
 - I. Catabolic process
 - II. Parabolic process
 - III. Amphibolic process
 - IV. Photochemical process
- 7. Opening and closing of pores is a function performed by
 - I. Stomata
 - II. Chlorophyll
 - III. Chloroplast
 - IV. Guard cells
- **8.** Which element is used in the synthesis of proteins?
 - I. Hydrogen
 - II. Oxygen
 - III. Nitrogen
 - IV. Carbon dioxide
- 9. Temporary finger like extensions on amoeba are called
 - I. Cell membrane
 - II. Cell wall
 - III. Pseudopodia
 - IV. Cilia
- **10.** Bile juice is secreted by
 - I. Stomach
 - II. Pancreas
 - III. Small intestine
 - IV. Liver

11.Immunosuppressants such as prevent transplanted organs from being rejected in recipients.
 Thrombin Cyclosporine Aspirin None of the above
12. Both B & T lymphocytes are produced in the bone marrow; however, only the T lymphocytes travel to the and mature there.
 Spleen Thymus Pituitary gland Adrenal gland
13. The is at its largest in children, but with the onset of puberty, it eventually shrinks and gets replaced by fat.
 Thymus Hypothalamus Parathyroid gland None of the above
14. Ascaris lumbricoides is a species of parasitic roundworm that lives in
 Humans Grasshoppers Pigs None of the above
15. Which of the following diseases has been eradicated
 Smallpox Rinderpest Polio All of the above
16. A kind of injury or damage, which results in the premature death of all the nearby cells in a tissue or an organ through autolysis is called

Neurosis
 Necrosis
 Apoptosis

4. Cellular senes	scence
17. Hypochondria is	also termed as
1.	Health anxiety
	Sleep apnea
	Hypnagogia
4.	Narcolepsy
18. The immune sys	tem comprises
	Humoral and fibrous systems
	Humoral and Cell-mediated systems
	Antigens
4.	Lymphocytes
19. Which of the foll	owing is a viral disease?
1.	Diphtheria
	Filariasis
	Leprosy
4.	Influenza
20. Carcinoma arises	from the
1.	Epithelial cells
	Bone Marrow
	Pigment containing Cells
4.	None of the above
21.Pollination is best	defined as
(B) Germinat (C) Growth o	of pollen from the anther to the stigma ion of pollen grains f pollen tube in ovule lowers by insects
22. Plants absorb mo	ost part of the water needed by them through their
(A)Embryon	ic zone
(B) Growing	point
(C) Root hai	irs
(D) Zone of	elongation
23. Primary phloem	develops from
(A)Lateral 1	meristem

(B) Protoderm
(C) Extrastelar cambium
(D) Provascular tissue
24. Phloem is a tissue found in
(A)Reproductive organs of animals
(B) Plants
(C) Insects
(D) Mammals
25. Plants growing on the sand are called as
(A) Chasmophytes
(B) Oxylophytes
© Lithophytes
(D) Psammophytes
26. Osmosis is the flow of solution from higher concentration to a solution of lower concentration through a semi permeable membrane. What is incorrect in this statement
A) Exact concentration of solution is not given
(B) Character of semi permeable membrane is not given
(C) The flow of solution is not possible through semi-permeable membrane
(D) All are incorrect
27. Organic Substances which, in very small amounts, control growth and development called
(A) Vitamins
(B) Hormones
(C) Enzymes
(D) None of the above
28. Rainwater helps to increase the to some extent.
 (A) Phosphorous contents (B) Nitrogen contents (C) Calcium contents (D) Potash contents
29. Ptyalin is an enzyme produced in the

(B) Pituitary glands
(C) Thyroid glands
(D) Pancreas
30. Radical vascular bundles are those in which
(A)Xylem is surrounded by phloem
(B) Phloem is surrounded by xylem
(C) Xylem and phloem occur on the same radius
(D) Xylem and phloem occur on the different radii
31. In World War II, the fermentation was used for the production of a) Alcohol b) Antibiotics c) Wine d) Beer
32. The small-scale bioreactors have volume of a) 5-10 litres b) 10-20 litres c) 1-10 litres d) 1-20 litres
 33. The bioreactor is not capable of a) Producing aseptic conditions b) Meeting containment regulations c) Controlling pH d) Produce electricity
34. Which of the following fermenters are characterized by height to diameter ratio? a) Tower fermenter b) Airlift fermenter c) Hollow fibre d) Perfusion bioreactor
35. In which of the following fermenters the impellers are replaced by constant flow of gas? a) Airlift fermenter b) Tower fermenter c) Hollow fibre d) Perfusion bioreactor

(A) Salivary glands

 36. Which of the following is used to grow anchorage-dependent cells? a) Airlift fermenter b) Tower fermenter c) Hollow fibre chamber d) Perfusion bioreactor
 37. Which of the following bioreactor consists of a vessel replaced by a multilayered bag? a) Single Use bioreactors b) Perfusion bioreactors c) Airlift bioreactor d) Tower bioreactor
 38. What is the function of carbon in stainless steel? a) Improves resistance to corrosion b) Improves ductility c) Reduces sensitization d) Improves halogen resistance
39. The Borosilicate glass does not contain a) SiO ₂ b) B ₂ O ₃ c) Al ₂ O ₃ d) KH₂PO₄
40. Which of the following class consists of microorganisms which are not causative agents? a) EFB Class 1 b) EFB Class 2 c) EFB Class 3
41. Which of the following class consists of microorganisms which are causing disease in man and are hazardous to workers? a) EFB Class 3 b) EFB Class 1 c) EFB Class 2 d) EFB Class 4
42. EFB Class 4 consists of a) Low-risk microorganisms b) High-risk microorganisms c) Medium-risk microorganisms d) Environmental-risk microorganisms
43. Which of the following class of microorganisms causes less threat to a man?

	c) Medium-risk microorganisms d) Environmental-risk microorganisms
	micro array is an ordered array of microscopic elements on a planer substrate that allows pecific binding of
<u>A.</u>	gene or gene products
<u>B.</u>	whole genome
<u>C.</u>	both (a) and (b)
<u>D.</u>	none of these
45. I	Biochips are made up of
	A. semi-conducting molecules inserted into the protein frame work
	B. conducting molecules inserted into the protein frame work
	C. non-conducting molecules inserted into the protein frame workD. any of the above
	<u>D.</u> any of the above
	ypoxanthine can be measured by
	A. hypoxanthine sensor
_	B. amorphous silicon ISFET
	C. urea sensor
<u>]</u>	<u>D.</u> alcohol sensor
47. Whi	ich of the following technology is used for micro array manufacturing?
<u>A.</u>	Photolithography
<u>B.</u>	Ink jetting
<u>C.</u>	Contact printing
<u>D.</u>	All of these
of	Thich of the following adaptations would it be desirable for a farmer to breed into a crop wheat? Learly ripening

a) Low-risk microorganismsb) High-risk microorganisms

- 49.Gene banks conserve stocks of
- **<u>A.</u>** seed only
- **B.** Resistance to disease vegetative material only
- C.C. Resistance to pestive material both
- D.D. Alhofethesese

- 50. Microbiosensors are based on
 - A. ions effect
 - **B.** ionsensitive field effect transistor
 - <u>C.</u> piezoelectric effect
 - **D.** magnetic effect