

CET – MOCK TEST

1. Which disease of man is similar with cattles bovine spongiform encephalopathy?

- a) Encephalitis b) Jacob- cruezfeldt disease c) Spongiocitis d) Spondylitis

2. Fruit formed from an inflorescence is

- a) Simple fruit b) Pseudofruit c) Composite fruit d) Aggregate fruit

3. In potato, self – pollination is performed in

- a) Bud condition
b) Cleistogamous condition
c) Bending of filaments to bring anthers in contact with stigma.
d) Styles are bend to bring stigma in contact with anthers.

4. Match the columns and find the correct answer

Column I

Column II

- | | |
|-----------------|--------------------------|
| a) Streptomyces | p) Nitrifying bacteria |
| b) Rhizobium | q) Source of antibiotics |
| c) Nitrosomonas | r) Nitrogen fixation |
| d) Acetobacter | s)Source of antigen |
| | t) Vinegar synthesis |

- a) a – s, b – t, c – p, d – r b) a – t, b – p, c – q, d – s
c) a – q, b – r, c – p, d – t d) a – q, b – r, c – s, d – t

5) Chiropterophily means

- a) Pollination by insects b) Pollination by wind
c) Pollination by bats d) Pollination by snails

6) Match items of column I Column II

column I

Column II

- | | |
|------------------------|-------------------|
| a) Collateral and open | p) Cucurbita stem |
| b) Radial | q) Fern |
| c) Bicollateral | r) Maize root |
| d) Concentric | s) Sunflower |
| | t) Maize stem |

- | | |
|-------------------------------|-------------------------------|
| a) a – t, b – s, c – r, d – p | b) a – s, b – r, c – p, d – q |
| c) a – s, b – p, c – r, d – p | d) a – s, b – r, c – q, d – p |

7) Irish famine of 1845 was caused by

- | | |
|----------------------------------|-----------------------------------|
| a) <i>Alternaria solani</i> | b) <i>Sclerospora graminicola</i> |
| c) <i>Phytophthora infestans</i> | d) <i>Fusarium oxysporum</i> |

8) Exchange of gases in lung alveoli occurs through

- a) Active transport b) Osmosis c) Simple diffusion d) Passive transport

9) Continuous bleeding from an injured part of body is due to deficiency of

- a) Vit A b) Vit B c) Vit K d) Vit E

10. ADH will be released from the posterior pituitary when there is a decrease in

- | | |
|--------------------------------|-----------------------------------|
| a) Plasma sodium concentration | b) Plasma potassium concentration |
| c) Plasma volume | d) Plasma PH |

11. Montreal protocol aims at

- | | |
|--|---|
| a) Biodiversity conservation | b) Control of water pollution |
| c) Control of CO ₂ emission | d) Reduction of ozone depleting substances. |

12. A child of O – group has B-group father. The genotype of the father will be

- a) I^o I^o b) I^B I^B c) I^A I^B d) I^B I^o

13. Match the columns and select correct combination

I

II

- a) Saliva
- b) Gastric juice
- c) Pancreatic
- d) Intestinal juice
- p) Disaccharides
- q) Trypsin
- r) Ptyalin
- s) Pepsin
- t) Cellulose

- a) a - r, b - s, c - p, d - t
- b) a - r, b - t, c - p, d - q
- c) a - s, b - r, c - p, d - t
- d) a - r, b - s, c - q, d - p

14. Acrosome reaction in sperm is triggered by

- a) Capacitation
- b) Release of lysine
- c) Influx of Na^+
- d) Contact with fertilizin.

15. L.S.D, Morphine and Bhang are respectively obtained from

- A) Claviceps, Papaver and cannabis
- B) Claviceps, Cannabis and Rauwolfia
- C) Cannabis, Claviceps and Fusarium
- D) Claviceps, Rauwolfia and Fusarium

16. Melanocyte stimulating hormone is secreted by pituitary

- a) Anterior lobe
- b) Median lobe
- c) Posterior lobe
- d) Not any particular lobe.

17. In alcoholics liver gets damaged as it

- a) Accumulates excess of fats
- b) Stores excess of glycogen
- c) Secretes more bile
- d) Has to detoxify alcohol

18. The number of uriniferous tubules in each kidney of man is

- a) About 10,000
- b) About 500
- c) Numerous
- d) About 1.0×10^6

19. The cells which do not respire

- a) Epidermal cells
- b) Sieve cells
- c) Cortical cells
- d) Erythrocytes

20. When paternal and maternal chromosomes change their materials with each other in cell division this event is called

- a) Bivalent forming
- b) dyad forming
- c) Synapsis
- d) Crossing over

21. A photosynthesizing plant is releasing O^{18} more than the normal plant, it must have been supplied with

- a) O^3 b) H_2O with O^{18} c) CO_2 with O^{18} d) $C_6H_{12}O_6$ with O^{18}

22. Loading of phloem is related to

- a) Increase of sugar in phloem b) Elongation of phloem cell
c) Separation of phloem parenchyma d) Strengthening of phloem fibre

23. A few organisms are known to grow and multiply at temperatures of $100 - 105^\circ$. They belong to

- a) Thermophilic sulphur bacteria b) Hot spring blue – green algae
c) Methanogenic archaeobacteria d) Marine archaeobacteria

24. Replum is present in the ovary of flower of

- a) Sunflower b) Fig c) Apple d) Mustard

25. If there are 4 cells in anthers, what will be the number of pollen grains

- a) 16 b) 8 c) 12 d) 4

26. The bones of a child are less brittle and more flexible than that of an adult individual because they have

- a) More calcium phosphate and less organic substances
b) Less calcium phosphate and organic substances
c) More calcium phosphate and organic substances
d) Less calcium phosphate and more organic substances

27. Cerebellum is the centre for reflex coordination and muscular tone, if it is injured

- a) movements become jerky walk controlled
b) movements are shaky and speech defective
c) movements are unbalanced d) no effect at all

28. Who is called Father of Modern Algology in India?

- a) R. N Singh b) Y. Bhardwaj c) F. E. Fritsch d) M O P Iyengar

29. Black snow is caused by

a) Scytonema b) Scotiella c) Raphidonema D) both b and c

30. Which algae is used in space programme to regulate the supply of

a) Chlorella, CO_2 b) Chlorella, O_2 c) Acetabularia, O_2 d) Scenedesmus, CO_2

31. The young one of cockroach is called

a) maggot b) Fingerling c) Nymph d) Caterpillar

32. Manganese is required in

a) plant cell wall formation b) photolysis of H_2O during photosynthesis
c) Chlorophyll synthesis d) nucleic acid synthesis

33. The enzyme that catalyses CO_2 fixation in C_4 plants is

a) RUBP Carboxylase b) PEP Carboxylase
c) Carbonic anhydrase d) Carboxydismutase

34. Foolish seeding disease / bakaene disease of rice helped in discovery of hormone

a) Gibberellin b) IAA c) Ethylene d) Cytokinin

35. Compensation point is the value of a factor where there is

a) Beginning of photosynthesis b) Little photosynthesis
c) Photosynthesis equal to rate of respiration d) Neither photosynthesis nor respiration

36. Root hairs absorb water from soil through

a) TP b) Ion exchange c) Osmosis d) DPD

37. Cell turgidity is caused by

a) Endosmosis b) Exosmosis c) Plasmolysis d) Diffusion

38. During dialysis which are the substances kept at a lower concentration than in the blood?

a) Amino acid and glucose b) Glucose and salt
c) Glucose and urea d) Salt and urea

39. Which enzyme is mainly responsible for DNA chain elongation during replication?

- a) DNA polymerases – II b) DNA – ligase
c) RNA polymerase d) DNA – polymerase – III

40. Acid rain is due to increase in atmospheric concentration of

- a) Ozone and dust b) CO₂ and CO c) SO₃ and CO d) SO₂ and NO₂

41. The muscles of one of the following has maximum mitochondria

- a) Ducts of glands b) Around bones c) Heart d) Walls of intestine

42. GIFT involves

- a) Transfer of a mixture of sperms and ova into the fallopian tube.
b) Transfer of a mixture of sperms and ova into the uterus
c) Transfer of zygote into the fallopian tube
d) Transfer of embryo into the uterus

43. Proteins present in silk fiber are

- a) Fibrin and serine b) Chondrin and mucin
c) Fibrin and sericine d) Collagen and elastin

44. One of these is not an amino acid

- a) Glycine b) Lysine c) Tryptophan d) Uracil

45. The gases used in the spark – discharge apparatus were

- a) NH₃, CH₄ and O₂ b) O₂, CO₂ AND NH₃ c) CO₂, NH₃, and CH₄ d) H₂, CH₄ and NH₃

46. Volkmann's canals occur in

- a) Bone b) Cartilage c) Liver d) Internal ear.

47. The lacteals are found in

- a) Mammary gland b) Spleen c) Villi d) Salivary gland

48. Match the theories given in column I with the names of scientists listed in column II choose the answer which gives the correct combination of the alphabets

	column I		column II
A	Relay pump theory	p	Stocking
B	Transpiration	q	Sir J.C. Bose
C	Mass flow theory	r	Godlewski
D	Pulsation theory	s	Dixon and Joly
		t	Ernst Munch

- a) A – q, B – p, C – t, D – r b) A– r, B – q, C – t, D – p
c) A– s, B – r, C – p, D – q d) A– r, B– s, C – t, D – q

49. The least amount of CO₂ is transported to lungs by blood as

- a)carboxy haemoglobin b)carbo haemoglobin
c)carbonic acid d)bicarbonates of Na and K

50. In which of the following plants, there will be no transpiration

- a) Aquatic, submerged plants b) Plants living in deserts
c) Aquatic plants with floating leaves d) Plants growing in hilly regions.

51.King cobra is

- a) *Naja hunnah* b) *Naja naja* c) *Viper Russell* d) *Bundares coerulus*

52. A bone is connected to another bone by

- a) Disc b) Tendon c) Cartilage d) Ligament

53. Chemical formula of chlorophyll-a

- a) C₅₅ H₇₂ O₅ N₄ Mg b) C₅₅ H₇₂ O₆ N₄ Mg c) C₅₅ H₇₀ O₆ N₄ Mg d)None of these

54. Determining the age of the plant by counting the number of annual rings in a cross

section of wood is called

- a) palaeontology b) palynology c) chronology d) dendrochronology

55. Impulse of a heart beat originates from

- a) SA node b) AV node c) vagus nerve d) cardiac nerve

56. The Rann of Kutch, of Gujarat is home to the

- a) Lesser flamingoes b) Great Indian Bustard c) Houbara Bustard d) Asiatic Wild ass

57. Lungs are surrounded by

- a) Pericardium b) Perichondrium c) Pleuron d) None

58. The role of placenta is

- a) to convey nerve impulses b) to act as storage organ
c) to provide nutrition for developing foetus d) none

59. The effective filtration pressure is

- a) 75mm of Hg b) 30mm of Hg c) 20mm of Hg d) 25mm of Hg

60. Surgical removal of thymus of a neonate shall result in failure to produce

- a) B-lymphocytes b) T-lymphocytes c) Monocytes d) Basophils