MOCK CET PAPER 6

1. Which of the following hormones does not promote apical dominance?
   1) NAA
   2) BAP
   3) IAA
   4) IBA

2. The process of expelling urine from the urinary bladder through urethra is called as
   1) Micturition
   2) Urination
   3) Secretion
   4) Defecation

3. During DNA replication, the helicase enzyme helps
   1) Breaking and resealing of DNA strand
   2) Unwinding the DNA double helix
   3) Joining Okazaki fragments
   4) Repairing enzyme

4. The fruit wall and seed coat remains fused in
   1) Caryopsis
   2) Cypsela
   3) Capsule
   4) Legume

5. With regard to C4 plants which one of the fallowing statement is wrong?
   1) They are adapted to saline condition
   2) They do not show photorespiration
   3) Bundle sheath cells are chlorenchymatous
   4) Mesophyll cells are differentiated

6. According to NeoDarwinism, all of the fallowing contributes to change in gene frequency except
   1) Mutation
   2) Gene flow
   3) Speciation
   4) Isolation

7. A tissue culture company intends to produce virus free plants. Which of the following methods is best suited for this
   1) Stem culture
   2) Meristem culture
   3) Anther culture
   4) Protoplast culture

8. In a family the blood group of both father and mother are heterozygous for B. the possible blood group in their children's is
   1) A and B
   2) O and A
   3) O and AB
   4) O and B

9. The main excretory product of urecotelic animals is
   1) Urea
   2) Uric acid
   3) Ammonia
   4) Creatinine

10. The lack of vitamin K fails to normal blood clotting mechanism. Among these which one of the functions is not worked properly
   1) Formation of prothrombin
   2) Synthesis of antiheparin
   3) Realease of calcium ions
   4) Synthesis of fibrinogen

11. Which of the following hormones is a not steroid?
   1) Oxytocin
   2) Androgens
   3) Estrogen
   4) Glucocorticoids

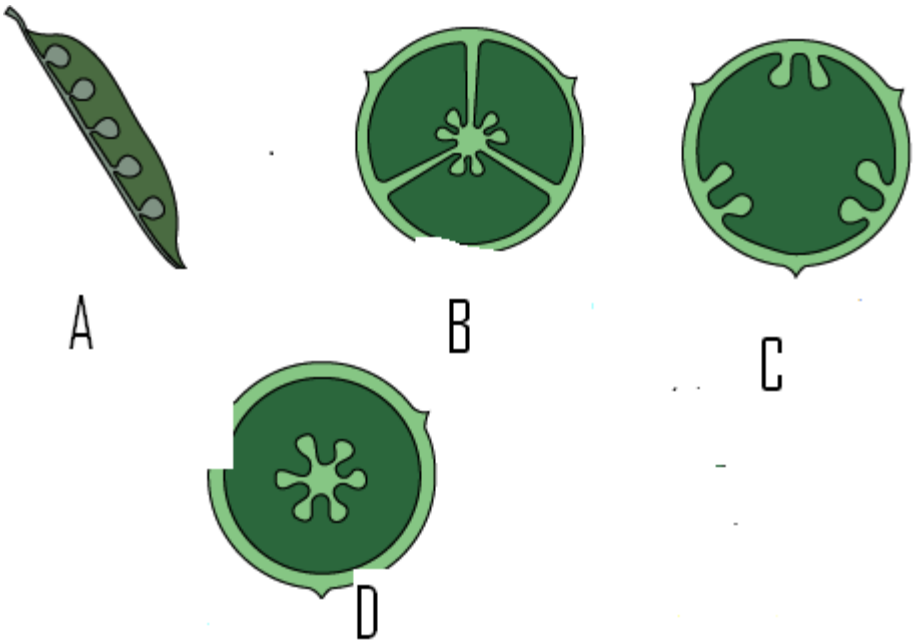
12. RNA is the genetic material in
   1) All viruses
   2) Few viruses like bacteriophages
   3) Few viruses like porvoviruse
   4) Few viruses like TMV

13. The most appropriate and rapid cause for decline in wild life is due to
   1) Overgrazing
   2) Global warming
   3) Mining
   4) Habitat destruction

14. If a bag surrounded by parchment membrane containing sucrose solution is placed in water container the volume of the sugar solution in the bag
   1) Decreases
   2) Increases
   3) Unchanged
   4) Bag bursts

15. A person has been diagnosed as having autoimmune disease. Which of the following is likely to be the disease?
    1) Parkinson's disease
    2) Chronic renal failure
    3) Rheumatoid arthritis
    4) Asthma

16. The diagram of the different types of placentation is given below. Identify the types of placentation labeled A, B, C and D
    labeled A, B, C and D



    1) A= marginal, B= axile C=parietal D=free central
    2) A= parietal, B= marginal C=axile D=free central
    3) A= free central, B= marginal C=axile D=parietal
    4) A= parietal, B= marginal C=free central D=axile

17. Examples of secondary meristem are
    1) Procambium and intrafascicular cambium
    2) Interfascicular cambium and phellogen
    3) Phellem and phelloderm
    4) Procambium and phelloderm

18. The correct sequence of development of Frog is
    1) fertilization-cleavage-blastula-gastrula-neural
    2) fertilization-blastula-cleavage-gastrula-neural
    3) fertilization- cleavage-blastula- neural-gastrula
    4) fertilization- cleavage-neural- blastula-gastrula

19. A bacterium is responsible for sever food poisoning. Identify the species
    1) Salmonella sps
    2) Shigella serotypes
    3) Haemophilus aegyptium
    4) Clostridium botulinum

20. In the absence of----------hormone metamorphosis of tadpole would be affected
    1) Growth hormone
    2) ACTH
    3) Thyroxin
    4) FSH

21. The appropriate definition for lesser known food plant is
    1) They are known in some area only
    2) They are restricted to certain places only
    3) They are nutritional value but unexplored and cultivated
    4) They are less in number and uncultivated

22. Ranikhet disease of poultry is caused by
    1) Fungus
    2) Protozoa
    3) Bacterium
    4) Virus

23. Forensic department officials are investigating the crime. But only a small amount of tissue is left over in the murder spot and get a little DNA. What would be the appropriate method for further investigation?
    1) Treating the DNA with REN
    2) Treating the DNA with ligase
    3) Southern blotting technique
    4) Polymerase chain reaction

24. A person is suffering from measles. What kind of substances you expect in his body
    1) Phagocytes
    2) Kinins
    3) Histamines
    4) Interferon

25. Aphid sty let technique is used to collect and analyze
    1) Xylem sap
    2) Phloem sap

3) Tissue fluid
4) Cell sap

26. The RQ value for anaerobic respiration is high and even infinity. It is because
1) Absence of oxygen consumed
2) Absence of carbon dioxide liberated
3) Presence of oxygen in high concentration
4) Presence of high carbon dioxide concentration

27. The industrial countries agreed to reduce the emission of green house gases by an average of 5.2% by 2010 under
1) Kyoto protocol
2) Montreal protocol
3) GAAT protocol
4) New Delhi protocol

28. An animal whose secondary oocyte has 16 chromosomes. What shall be the number of chromosomes in their ootid?
1) 8
2) 32
3) 16
4) 4

29. Flame cells are the excretory organs of
1) Annelid
2) Plat helminthes
3) Arthropod
4) Mollusk

30. Compare the statements A and B
Statement A: Blood sugar level elevates soon after carbohydrate rich meal
Statement B: decreased response of cells to insulin causes maturity onset diabetes mellitus
Select the correct description
1) Statement A is correct and B is wrong
2) Statement A is wrong and B is correct
3) Both Statement A and B are correct and B is not the reason for A
4) Both Statement A and B are correct and B is the reason for A

31. What is false about spring wood?
1) Contain large amount of xylem fibers
2) It is also called late wood
3) Xylem vessels have comparatively thin wall
4) Vessels have broad lumen

32. Compare the statements A and B
Statement A: BAP is responsible for Richmond- Long effect
Statement B: ABA promotes senescence
Select the correct description
1) Statement A is correct and B is wrong
2) Statement A is wrong and B is correct
3) Both Statement A and B are correct and B is not the reason for A
4) Both Statement A and B are correct and B is the reason for A

33. Guard cells turgid due to
1) Influx of protons fallowed by endosmosis
2) Efflux of potassium ions fallowed by endosmosis
3) Decrease in water potential followed by endosmosis
4) Increase in water potential fallowed by endosmosis

34. Compare the statements A and B
Statement A: Okazaki fragments are synthesized on leading strand of DNA
Statement B: RNA synthesis occurs on sense strand of DNA
Select the correct description
1) Statement A is correct and B is wrong
2) Statement A is wrong and B is correct
3) Both Statement A and B are correct
4) Both Statement A and B are wrong

35. Which of the following is not properly matched?
1) Protozoa-sporozoa-plasmodium
2) Pplatyhelminthes-trematoda-liver fluke
3) orthropoda-crustacea-prawn
4) mollusca-cephalopoda-pila globosa

36. The thermostat of the body is called
1) Thalamus
2) Cerebellum
3) Pons veroli
4) Hypothalamus

37. The viroid causes
1) CJD
2) Kuru
3) Potato spindle tuber
4) Mad cow disease

38. The production of polyploidy requires ------chemical for chromosomal doubling
1) Polyethylene glycol
2) Sodium hypochlorite
3) 2, 4, D
4) Colchicines

39. The sequential steps involved in menstrual cycle of human female
1) ovulation-menstrual phase-proliferative phase-luteal phase
2) Ovulation phase-menstrual phase-follicular phase-luteal phase
3) Menstrual phase-ovulation-follicular phase-luteal phase
4) Menstrual phase-follicular phase-ovulation phase-luteal phase

40. Identify the wrong statement with respect to non cyclic photophosphorylation
1) It involves both PSI and PSII
2) Photo oxidation of water occurs
3) At the end only ATP molecules are produced
4) Oxygen is evolved as a by product

41. Guttation is due to
1) Transpiration pull
2) Root pressure
3) Vital force
4) Capillary force

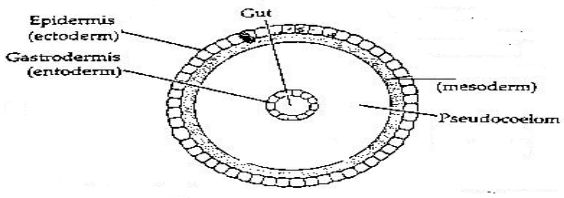
42. Corollary corona, sagittate anthers and dumbbell shaped stigma are salient features of
1) Apocyanaceae
2) Arecaceae
3) Solanaceae
4) Malvaceae

43. The vision in cockroach is said to be
1) Monocular
2) Binocular
3) Mosaic
4) Direct

44. Compare the statements A and B
Statement A: Eri silk is produced by philosamia recini
Statement B: Eri silk worm feeds on som plant
Select the correct description
1) Statement A is correct and B is wrong
2) Statement A is wrong and B is correct
3) Both Statement A and B are correct

4) Both Statement A and B are wrong

45. The diagram of the cross section of a body plan of an invertebrate is given below. Based on that identify the phylum



1) Nematodes
2) Platyhelminthes
3) Annelida
4) Arthropoda

46. Nephric filtrate does not contain
1) Glucose
2) Urea
3) RBC
4) Amino acids

47. Which of the following recordings is true when separation of photosynthetic pigments by paper chromatography will be made?
1) Chlorophyll b moves slowly where as carotene moves fast
2) Chlorophyll a moves slowly where as xanthophylls is fast
3) Chlorophyll b moves slowly where as chlorophyll a is fast
4) Carotenes moves slowly where as chlorophyll b moves fast

48. Match the compounds given in column I with the number of carbon atoms present in column II choose the answer which gives the correct combination of alphabets of the two columns

Column I	Column II
A) Malic acid	p) 5-c compound
B) DHAP	q) 6-c compound
C) Oxalo succinate	r) 3-c compound
D) Alpha keto gluterate	s) 4-c compound
	t) 2-c compound

1) A=s, B=r, C=q, D=p
2) A=s, B=p, C=t, D=r
3) A=q, B=t, C=s, D=r
4) A=s, B=r, C=p, D=t

49. Identify the correct statement
1) Xylem shows centrifugal developments in roots
2) Polyarch is a feature of dicot root
3) Root hairs are short lived and are continuously replaced by new root hairs
4) Ground tissue in monocot stem is differentiated into cortex, pericycle and pith

50. Identify the correct matched pairs of germ layers and their derivatives
A-mesoderm-gonad
B-Ectoderm-pancreas
C-Endoderm-lungs
D-Ectoderm-skin derivatives
E-mesoderm-bone
1) A, C, D and E only
2) A and B only
3) A and D only
4) A, C and D only

51. The functional stage of lysosome is
1) Primary lysosome and secondary lysosome
2) Primary lysosome and autophagosome
3) Residual body and autophagosome
4) Primary lysosome, secondary lysosome, autophagosome and residual body

52. Match the following: in the I column common names of the plants are listed and in the II column scientific names are listed

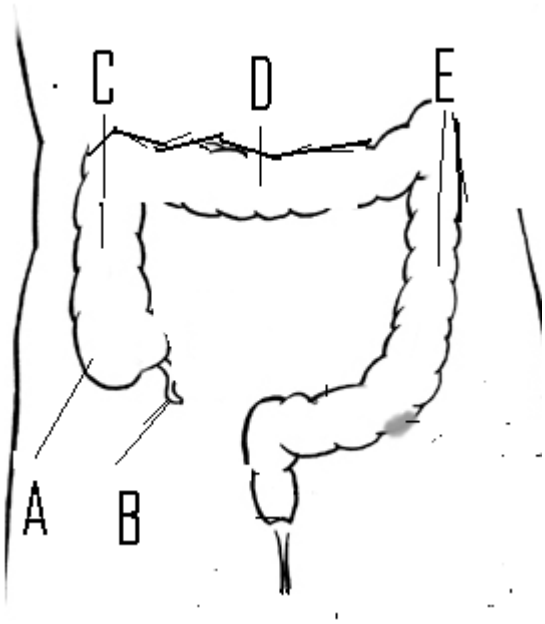
Column I	Column II
A) Sarpaganda	p) Dalbergia sisso
B) Ashwaganda	q) Vinca rosea
C) Rose wood	r) Withenia somnifera
D) Ground nut	s) Rouwolfia serpentina
	t) Arachis hypogea

1) A=s, B=r, C=q, D=p
2) A=s, B=p, C=t, D=r
3) A=q, B=t, C=s, D=r
4) A=s, B=r, C=p, D=t

53. A patient lacks ADA gene and functional T lymphocytes. He is suffering from
1) AIDS
2) Muscular dystrophy
3) Cystic fibrosis

4) SCID

54. The diagram of large intestine of man is given below. Identify the parts labeled A, B, C , D and E



1) A=Caecum, B=vermiform appendix, C= ascending colon= D=transverse colon E= descending colon
1) A=Caecum, B=descending colon, C= ascending colon= transverse colon E= vermiform appendix
1) A=Caecum, B=vermiform appendix, C= ascending colon= transverse colon E= sigmoid curve
1) A=Caecum, B=vermiform appendix, C= sigmoid curve= transverse colon E= descending colon

55. FSH in human male promotes
1) Spermatogenesis
2) Growth of pubic hairs
3) Libido
4) Descending the testes into scrotum

56. The white matter of---------is called Arbor vitae
1) Cerebrum
2) Cerebellum
3) Mid brain
4) Thalamus

57. The chromosomal complement of Turner's syndrome
1) 44A+XXY
2) 44A+XO
3) 45A+XX
4) 45A+XY

58. Which one among the fallowing is not the consequences, if hypertension is untreated
1) Heart attach
2) Liver cirrhosis
3) Strokes
4) Renal failure

59. The single horned rhinoceros is protected in
1) Kaziranga national park
2) Kahna national park
3) Rajiv Gandhi national park
4) Gir national park

60. What will be the proportion of dwarf progeny, if heterozygous tall plant is crossed with homozygous dwarf plant
1) 100%
2) 75%
3) 50%
4) 25%