

MASTERCLASS REVISION TEST # 5 [90 Question – 50 Minutes (including OMR Filling)]

28 Chapter List for the Test

- 1) Digestion and Absorption
- 2) Breathing and Exchange of Gases
- 3) Body Fluids and Circulation
- 4) Excretory Products and their Elimination
- 5) Locomotion and Movement
- 6) Neural Control and Coordination
- 7) Chemical Coordination and Integration
- 8) Human Reproduction
- 9) Reproductive Health
- 10) Transport in Plants
- 11) Mineral Nutrition
- 12) Photosynthesis in Higher Plants
- 13) Respiration in Plants
- 14) Plant Growth & Development
- 15) Organisms & Populations
- 16) Ecosystem
- 17) Biodiversity and Conservation
- 18) Environmental Issues
- 19) Biomolecules
- 20) Anatomy of Flowering Plants
- 21) Cell The Unit of Life
- 22) The Living World
- 23) Animal Kingdom
- 24) Structural Organisation in Animals
- 25) Morphology of Flowering Plants
- 26) Biological Classification
- 27) Plant Kingdom
- 28) Cell Cycle and Cell Division



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- 1. Sterility in a male can be caused by:
- 1. testosterone
- 2. prolactin
- 3. LH
- 4. ICSH
- 2. Follicles are found in the ovaries and:
- 1. anterior pituitary
- 2. testis
- 3. thyroid
- 4. Pancreas
- 3. The basal metabolic rate is most significantly influenced by:
- 1. thyroxine
- 2. cortisone
- 3. adrenaline
- 4. Melatonin
- 4. Name a peptide hormone which acts mainly on hepatocytes, adipocytes and enhances cellular glucose uptake and utilisation.
- 1. Insulin
- 2. Glucagon
- 3. Secretin
- 4. Gastrin
- 5. Which of the following ions is vital for coagulation of blood?
- 1. Na⁺
- 2. Ca²⁺
- 3. K⁺
- 4. H⁺
- 6. What is the average duration of diastole and systole in a cardiac cycle lasting 0.8 seconds?

- 1. 0.3; 0.5
- 2. 0.4; 0.4
- 3. 0.5; 0.3
- 4. 0.6; 0.2
- 7. How would the right heart compared to the left during one cardiac cycle?
- 1. left heart pumps a lesser volume of blood than the right heart
- 2. right heart contracts shortly before the left heart
- 3. right heart pumps blood with less force (at lower pressure) than the left heart
- 4. left heart has a shorter cardiac cycle duration than the right heart
- 8. Blood pressure in the pulmonary artery is
- 1. more than that in the carotid
- 2. more than that in the pulmonary vein
- 3. less than that in the venae cavae
- 4. same as that in the aorta
- 9. Both carbon dioxide and oxygen move across the respiratory membrane due to:
- 1. gravity
- 2. blood pressure
- 3. diffusion
- 4. active transport
- 10. With respect to the atmospheric air, the deoxygenated blood flowing into lung capillaries has a higher concentration of:
- 1. oxygen
- 2. both carbon dioxide and oxygen
- 3. water
- 4. carbon dioxide



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- 11. A vertebrate osmoconformer is:
- 1. reptile
- 2. freshwater fish
- 3. dlophin
- 4. Hagfish
- 12. The urine concentrating ability of mammals and birds is correlated with the length of their:
- 1. ureters
- 2. proximal convoluted tubules
- 3. distal convoluted tubules
- 4. loops of Henle
- 13. Which one of the following is not a part of a renal pyramid?
- 1. Convoluted tubules
- 2. Collecting ducts
- 3. Loops Henle
- 4. Peritubular capillaries
- 14. The peripheral nervous system in humans PNS consists of cranial nerves and:
- 1. spinal cord
- 2. sensory nerves
- 3. the brain
- 4. spinal nerves
- 15. The neuron in humans with many nerve fibers arising from its cell body and that carries impulses to the effectors would be called as:
- 1. multipolar
- 2. bipolar

- 3. unipolar and sensory
- 4. multipolar and motor
- 16. The organ converts one energy form into another would be called as:
- 1. effector
- 2. transducer
- 3. generator
- 4. receptor
- 17. Photosensitive compound in human eye is made up of
- 1. opsin and Retinal
- 2. opsin and Retinol
- 3. transducin and Retinene
- 4. guanosine and Retinol
- 18. The presence of stones in the gallbladder is referred to as:
- 1. cholecystitis
- 2. cholecystectomy
- 3. cholelithiasis
- 4. cholesterol calculi
- 19. After digestion, monoglycerides and fatty acids associate with bile salts and phopholipids to form:
- 1. chylomicrons
- 2. micelles
- 3. globules
- 4. Lipoproteins
- 20. Ovulation occurs ____ days prior to the onset of the next cycle.
- 1. 1



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- 2.7
- 3.14
- 4.21
- 21. Non primate mammalian females have:
- 1. a follicular cycle
- 2. an estrous cycle
- 3. a menstrual cycle
- 4. a luteal cycle
- 22. The first structure amongst the following to receive sperms would be:
- 1. vas deferens
- 2. urethra
- 3. epididymis
- 4. seminal vesicle
- 23. Which of the following guards the opening of hepatopancreatic duct into the duodenum?
- 1. Ileocaecal valve
- 2. Pyloric sphincter
- 3. Sphincter of Oddi
- 4. Semilunar valve
- 24. Name the chronic respiratory disorder caused mainly by cigarette smoking
- 1. asthma
- 2. respiratory acidosis
- 3. respiratory alkalosis
- 4. Emphysema
- 25. The opening in a vertebra that is formed by a neural arch and back portion of a vertebral body and through which the spinal cord passes is called as:
- 1. intervertebral foramen.
- 2. vertebral canal.

- 3. vertebral foramen.
- 4. formen magnum
- 26. The number of pairs of vertebrosternal ribs in humans are:
- 1.3
- 2. 2
- 3. 7
- 4. 10
- 27. Situated between the two hip bones of the pelvis, sacrum is a triangular bone in the lower back formed from fusion of:
- 1. 3 vertebrae
- 2. 5vertebrae
- 3. 7 vertebrae
- 4. 12 vertebrae
- 28. Which of the following is not a function of the skeletal system?
- 1. Production of erythrocytes
- 2. Storage of minerals
- 3. Production of body heat
- 4. Locomotion
- 29. Identify the correct statement on 'inhibin'
- 1. Is produced by granulosa cells in ovary and inhibits the secretion of FSH
- 2. Is produced by granulosa cells in ovary and inhibits the secretion of LH
- 3. Is produced by nurse cells in testes and inhibits the secretion of LH
- 4. Inhibits the secretion of LH, FSH and prolactin
- 30. Amenorrhea is:
- 1. Abnormal menstruation
- 2. Excess menstruation



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- 3. Absence of menstruation
- 4. Scanty menstruation
- 31. Lactational amenorrhea method of contraception is based on the fact that:
- 1. Ovulation and menstrual flow does not occur post conception during intense lactation
- 2. The cervix mucus becomes hostile to sperms after parturition during intense lactation
- 3. Ovulation and menstrual flow does not occur post partum during intense lactation
- 4. The endometrium is reabsorbed rather than sloughed off during intense lactation
- 32. Lactational amenorrhea is effective up to a maximum period of:
- 1. 3 months
- 2. 6 months
- 3. 9 months
- 4. 12 months
- 33. Which one of the following elements in plants is not remobilised?
- 1. Calcium
- 2. Potassium
- 3. Sulphur
- 4. Phosphorus
- 34. For imbibition to occur, affinity between the adsorbant and the liquid is:
- 1. not essential
- 2. not essential since imbitition is also a diffusion
- 3. not essential if occurring against the concentration gradient
- 4. a pre-requisite

- 35. Consider the following statements:
- I. In diffusion, different substances move independently of one another depending on their individual concentration gradients.
- II. Similarly, in bulk transport, different substances move independently of one another depending on their individual concentration gradients.
- III. Bulk flow can be achieved either through a positive hydrostatic pressure or through a negative hydrostatic pressure.

Correct statements are:

- 1. I, II, III
- 2. I and II
- 3. I and III
- 4. II and III
- 36. In context of amniocentesis, which of the following statement is incorrect?
- 1. It is used for prenatal sex determination
- 2. It can be used for detection of down syndrome
- 3. It can be used for detection of cleft palate
- 4. it is usually done when a woman is between 14-16 weeks pregnant
- 37. A nitrogen fixing microbe associated with Azolla in rice fields is
- 1. Spirulina
- 2. Anabaena
- 3. Frankia
- 4. Tolypothrix
- 38. Identify the element required by plants for utilization of calcium and pollen germination:
- 1. Iron
- 2. Sulfur



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- 3. Boron
- 4. Zinc
- 39. The deficiency symptoms of which of the following tend to first appear in young tissues?
- 1. Nitrogen
- 2. Potassium
- 3. Calcium
- 4. Magnesium
- 40. In a chloroplast the highest number of protons are found in
- 1. lumen of thylakoids
- 2. inter membrane space
- 3. antenna complex
- 4. Stroma
- 41. In Section 13.7 NCERT says that "immediately after light becomes unavailable, the biosynthetic process continues for some time and then stops". Why does it stop after some time?
- 1. The respiration stops in the absence of light and hence synthesis of sugars is stopped
- 2. The reactions of the biosynthetic phase are directly dependent on light
- 3. The reactions of the biosynthetic phase are dependent on the products of light reaction
- 4. This is a mistake in NCERT as Dark Reactions will continue throughout night
- 42. This is an intext question in Section 13.7.1 NCERT. How many carbon atoms does the primary carbon dioxide acceptor have in C₃ photosynthesis?
- 1. 2

- 2.3
- 3. 4
- 4. 5
- 43. Which of the metabolites is common to respiration mediated breakdown of fats, carbohydrates and proteins?
- 1. Glucose-6-phosphate
- 2. Fructose 1, 6, bisphosphate
- 3. Pyruvic acid
- 4. Acetyl Co-A
- 44. Refer Section 14.4.1, NCERT. The continued oxidation of acetyl CoA via the TCA cycle requires the continued replenishment of:
- I. Oxalaacetic acid
- II. NAD+
- III. FAD
- 1. I and II only
- 2. I and III only
- 3. II and III only
- 4. I, II and III
- 45. At how many points in the TCA cycle is NAD+ reduced to NADH + H+?
- 1. 2
- 2. 3
- 3. 4
- 4. 6
- 46. What causes a green plant exposed to the light on only one side, to bend toward the source of light as it grows?
- 1. Green plants need light to perform photosynthesis
- 2. Green plants seek light because they are phototropic



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- 3. Light stimulates plant cells on the lighted side to grow faster
- 4. Auxin accumulates on the shaded side, stimulating greater cell elongation
- 47. The growth in plants can be best expressed as [refer Section 15.2]:
- 1. Open
- 2. Determinate
- 3. Closed
- 4. Redundant
- 48. Development is term that includes all changes that a plant goes through during its life cycle:
- 1. till germination of the seed
- 2. during its vegetative growth
- 3. from germination till flowering
- 4. from germination to senescence
- 49. Two opposite forces operate in the growth and development of every population. One of them relates to the ability to reproduce at a given rate. The force opposing it is called.
- 1. Morbidity.
- 2. Fecundity.
- 3. Biotic potential.
- 4. Environmental resistance.
- 50. Organisms that are tolerant of a wide range of salinity are called:
- 1. Stenohalines
- 2. Euryhalines
- 3. Halophytes
- 4. Stenothermals

- 51. Small plants [herbs and shrubs], growing in forests, are usually adapted to photosynthesize optimally under:
- 1. Very high light conditions
- 2. Very low water conditions
- 3. Very high water conditions
- 4. Very low light conditions
- 52. Highest value in g/m²/yr of a grassland ecosystem would be (AIPMT 2004)
- 1. Gross primary production
- 2. Net primary production
- 3. Secondary production
- 4. Tertiary production
- 53. Humus:
- 1. Is easily broken down by microbes
- 2. Undergoes decomposition rapidly
- 3. Serves as reservoir of nutrients
- 4. Yields organic nutrients on mineralization
- 54. Decomposition of detritus is rapid when:
- 1. It is rich in lignin and chitin
- 2. Ambient temperature is low
- 3. Environment favors anaerobiosis
- 4. It predominantly contains nitrogen and sugars
- 55. Which one is odd combination of habitat and particular animal (AIPMT 2007)
- 1. Sunderbans-Bengal Tiger
- 2. Periyar-Elephant
- 3. Rann of Kutch-Wild Ass
- 4. Dachingam National Park Snow Leopard



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- 56. What exotic introduction is threatening indigenous catfishes in our rivers?
- 1. Carassius auratus
- 2. Carcinus maenas
- 3. Centaurea solstitialis
- 4. Clarias gariepinus
- 57. Which group of the following has the maximum % age of species facing threat of extinction?
- 1. Amphibians
- 2. Birds
- 3. Mammals
- 4. Gymnosperms
- 58. Which one of the following is mismatched? (AIPMT 2005)
- 1. Fossil fuel burning Release of CO₂
- 2. Nuclear power Radioactive wastes
- 3. Solar energy Green house effect
- 4. Biomass burning Release of CO₂
- 59. Which of the following is implicated in the causation of skin cancers and snow-blindness cataracts in humans?
- 1. UV A
- 2. UV B
- 3. UV C
- 4. None of these
- 60. The normal greenhouse effect is necessary for survival of life on Earth as it has raised the temperature of Earth's surface by:
- 1. 18°C
- 2. 15°C
- 3.33°C
- 4. 50°C
- 61. ATP is a

- 1. nucleotide
- 2. nucleosome
- 3. nucleoside
- 4. purine
- 62. Adenine and guanine are:
- 1. Substituted purines
- 2. Substituted pyrimidines
- 3. Deoxyribonucleosides
- 4. Ribonucleotides
- 63. The first amino acid in the primary structure of a protein is termed as:
- 1. C terminus amino acid
- 2. N terminus amino acid
- 3. An imino acid
- 4. Alpha amino acid
- 64. In choroplasts the chlorophyll is located in (AIPMT-2005)
- 1. Stroma
- 2. Grana
- 3. Pyrenoid
- 4. Both 1 and 2.
- 65. A 'slime layer' or a 'capsule' is a modification of which of the following layers of the cell envelope of a prokaryotic cell?
- 1. Glycocalyx
- 2. Cell wall
- 3. Lipoprotein layer
- 4. Cell membrane
- 66. Mesosomes, extensions of plasma membrane in bacterial cells, help in all the following except:
- 1. Cell wall formation



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- 2. DNA replication and distribution to daughter cells
- 3. Respiration
- 4. Photosynthesis
- 67. One of the most important functions of botanical gardens is that [AIPMT 2004]
- 1. one can observe tropical plants there
- 2. they allow ex situ conservation of germplasm
- 3.they provide the natural habitat for wildlife
- 4. they provide a beautiful area for recreation
- 68. Which of the following is a defining characteristic of living organisms?
- 1. Growth
- 2. Ability to make sound
- 3. Reproduction
- 4. Response to external stimuli
- 69. Match the following and choose the correct option:
- A. Family i. tuberosum
- B. Kingdom ii. Polemoniales
- C. Order iii. Solanum
- D. Species iv. Plantae
- E. Genus v. Solanacea

Options:

- 1. i-D, ii-C, iii-E, iv-B, v-A
- 2. i-E, ii-D, iii-B, iv-A, v-C
- 3. i-D, ii-E, iii-B, iv-A, v-C
- 4. i-E, ii-C, iii-B, iv-A, v-D
- 70. What is true about Nereis, scorpion, cockroach and silver fish? (AIPMT 2007)
- 1. They all possess dorsal heart
- 2. None of them is aquatic
- 3. They all belong to the same phylum
- 4. They all have jointed paired appendages

- 71. "Amniotes" do not include:
- 1. Amphibians
- 2. Reptiles
- 3. Birds
- 4. Mammals
- 72. The presence of mutable collagenous tissue is an important feature of:
- 1. Annelida
- 2. Echinodermata
- 3. Porifera
- 4 Molluska
- 73. Which cartilage is present at the end of long bones? [AIPMT 2002]
- 1. Calcified cartilage
- 2. Hyaline cartilage
- 3. Elastic cartilage
- 4. Fibrous cartilage
- 74. Osteocytes [bone cells] are present in spaces called:
- 1. Osteon
- 2. Lamellae
- 3. Haversian canals
- 4. Lacunae
- 75. Smooth muscles are:
- 1. Voluntary and striated
- 2. Voluntary and unstriated
- 3. Involuntary and unstraited
- 4. Involuntary and striated

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- 76. Cambium found in vascular bundles of dicot stem is (AIPMT-2000)
- 1. Intercalary meristem
- 2. Fasicular cambium
- 3. Secondary meristem
- 4. All of the above
- 77. Root hairs develop from the region of: (NEET-2017)
- 1. Maturation
- 2. Elongation
- 3. Root cap
- 4. Meristematic activity
- 78. Azolla has a symbiotic relationship with (AIPMT-2004)
- 1. Chlorella
- 2. Anabaena
- 3. Nostoc
- 4. Tolypothrix
- 79. Cycas has two cotyledons but is not included under angiosperms because it has (AIPMT-2001)
- 1. Circinate ptyxis
- 2. Compound leaves
- 3. Monocot like stem
- 4. Naked seeds.
- 80. If you are provided with root-tips of onion in your class and are asked to count the chromomes, which of the following stages can you most conveniently look into ? (AIPMT 2004)
- 1. Telophase
- 2. Anaphase

- 3. Prophase
- 4. Metaphase
- 81. All the following characteristics differentiate stems from the roots except:
- 1. Development from the plumule
- 2. Presence of nodes and internodes
- 3. Terminal or axillary buds
- 4. Endogenous development of branches
- 82. Stems contain chlorophyll and carry out photosynthesis in:
- 1. Opuntia and Euphorbia
- 2. Mint and Jasmine
- 3. Pistia and Eichhornia
- 4. Banana and Pineapple
- 83. Regarding the guard cells:
- 1. walls away from the stomatal pores are thin and those towards the stomatal pores are thick
- 2. walls away from the stomatal pores are thick and those towards the stomatal pores are thin
- 3. chloroplasts are mostly absent
- 4. play no role in the regulation of opening and closing of stomata
- 84. A simple plant tissue is characterized by:
- 1. continued cell division
- 2. presence of only living cells
- 3. cells with chloroplasts
- 4. presence of only one type of cells
- 85. The centrosome duplicates during:
- 1. Early Prophase
- 2. Late prophase
- 3. S phase
- 4. G₂ phase
- 86. The two asters together with spindle fibers form the:



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- 1. Centrosome
- 2. Mitotic apparatus
- 3. Kinetochore
- 4. Chiasmata
- 87. Difference between Virus and Viroid is
- 1. Absence of protein coat in viroid but presence of virus
- 2. Presence of low molecular weight RNA in virus but absence in viroid
- 3. Both 1 and 2
- 4. None of the above
- 88. With respect to fungal sexual cycle, choose the correct sequence of events
- 1. Karyogamy, Plasmogamy and Meiosis
- 2. Meiosis, Plasmogamy and Karyogamy
- 3. Plasmogamy, Karyogamy and Meiosis
- 4. Meiosis, Karyogamy and Plasmogamy
- 89. Protonema is
- 1. Haploid and is found in mosses
- 2. Diploid and is found is liverworts
- 3. Diploid and is found in pteridophytes
- 4. Haploid and is found in pteridophytes
- 90. The giant Redwood tree (Sequoia sempervirens) is a/an
- 1. Angiosperm
- 2. Free fern
- 3. Pteridophyte
- 4. Gymnosperm