

B

CET-2011

Sr. No. :

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Booklet Series Code: A

Important : Please consult your Admit Card / Roll No. Slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.

In Figures

In Words

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O.M.R. Answer Sheet Serial No.

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Signature of the Candidate : _____

Subject : Biology

Time : 70 minutes

Number of Questions : 60

Maximum Marks : 120

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO

INSTRUCTIONS

1. Write your Roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
2. Enter the Subject and Series Code of Question Booklet on the OMR Answer Sheet. Darken the corresponding bubbles with **Black Ball Point / Black Gel pen**.
3. Do not make any identification mark on the Answer Sheet or Question Booklet.
4. To open the Question Booklet remove the paper seal(s) gently when asked to do so.
5. Please check that this Question Booklet contains **60** questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
6. Each question has four alternative answers (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with **Black Ball Point / Black Gel pen**.
7. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
8. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
9. Negative marking will be adopted for evaluation i.e., 1/4th of the marks of the question will be deducted for each wrong answer. A wrong answer means incorrect answer or wrong filling of bubble.
10. For calculations, use of simple log tables is permitted. Borrowing of log tables and any other material is not allowed.
11. For rough work only the sheets marked "Rough Work" at the end of the Question Booklet be used.
12. The Answer Sheet is designed for **computer evaluation**. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. **Any resultant loss to the candidate on the above account, i.e., not following the instructions completely, shall be of the candidate only.**
13. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
14. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so, would be expelled from the examination.
15. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
16. **Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.**

1. **Cartilage is a type of**
(A) Connective tissue (B) Epithelial tissue
(C) Skeletal tissue (D) Muscular tissue
2. **Streaming of the cytoplasm within some living cells is known as**
(A) Homeostasis (B) Cyclosis
(C) Diffusion (D) Osmoregulation
3. **Which of the following sugar cannot be split into further groups by hydrolysis ?**
(A) Glucose (B) Sucrose
(C) Lactose (D) Maltose
4. **Columnar epithelium is found in**
(A) Trachea (B) Stomach
(C) Lungs (D) Uterus
5. **Prokaryotes can be distinguished from eukaryotes as they lack**
(A) RNA (B) Ribosomes
(C) Gene discontinuity (D) Unique DNA sequences
6. **Example of an oxidative organelle is**
(A) Ribosome (B) Golgi body
(C) Peroxisome (D) Endoplasmic reticulum
7. **A group of related genera which resemble each other in floral characteristics represent a**
(A) Family (B) Order
(C) Species (D) Taxa
8. **Members of plants which provide pulses belong to family**
(A) Asteraceae (B) Fabaceae
(C) Poacea (D) Solanaceae
9. **When the root is swollen in the form of closely arranged rings, it is called**
(A) Annulated (B) Moniliform
(C) Fasciculated (D) Beaded
10. ***Colocasia* also known as taro, is an example of a modified**
(A) Rhizome (B) Tuber
(C) Bulb (D) Corm

- 11. Mitotic chromosomes are stained with**
- (A) Safranin (B) Fast green
(C) Amido blue (D) Acetocarmine
- 12. Which of the following meristem classification is based on the position in the plant body ?**
- (A) Primary meristem (B) Intercalary meristem
(C) Secondary meristem (D) Procambial meristem
- 13. Steroids are**
- (A) Lipids (B) Proteins
(C) Vitamins (D) Carbohydrates
- 14. First portion of the small intestine is called the**
- (A) Jejunum (B) Ileum
(C) Duodenum (D) Cystic duct
- 15. The segment of earthworm in which mouth is situated is called**
- (A) Prosoma (B) Prostomium
(C) Peristomium (D) Prosegment
- 16. Meiosis can be best studied in**
- (A) Root tips (B) Megaspore mother cells
(C) Microspores (D) Pollen mother cells
- 17. Brow antlered deer is found in**
- (A) Kaziranga National Park (B) Corbett National Park
(C) Keibul Lamjao National Park (D) Bandipur National Park
- 18. The most abundant RNA in the cell is**
- (A) rRNA (B) mRNA
(C) tRNA (D) snRNA
- 19. The cockroach crushes food with the help of its**
- (A) Labium (B) First maxillae
(C) Mandibles (D) Antennae
- 20. Major function of the mineral Magnesium is**
- (A) Formation of bones (B) Maintenance of acid base balance
(C) Storing of energy (D) Activator of enzymes

- 21. DNA packaging in eukaryotes is done by formation of**
- (A) Chromosomes (B) Chromatin
(C) Chromophore (D) Nucleosome
- 22. Which of the following type is a rapid type of absorption ?**
- (A) Active absorption (B) Passive absorption
(C) Continuous absorption (D) Pulsating absorption
- 23. Quantasome is a unit related to**
- (A) Respiration (B) Ascent of sap
(C) Growth (D) Photosynthesis
- 24. Transport of cytokinin in the plant body is**
- (A) Basipetal (B) Lateral
(C) Acropetal (D) On all sides
- 25. The left lung of human is divided into**
- (A) One lobe (B) Two lobes
(C) Three lobes (D) Four lobes
- 26. Cancelled**
- 27. Cancelled**
- 28. Cancelled**
- 29. Cancelled**
- 30. Cancelled**
- 31. Cancelled**
- 32. Cancelled**

33. Cancelled

34. Cancelled

35. Cancelled

36. Which gland secretes alkaline mucous in the urethra to neutralize the acidity of urine ?

- (A) Prostrate gland (B) Cowper's gland
(C) Seminal vesicles (D) Preputial glands

37. Which of the following pesticides is an acetyl cholinesterase inhibitor ?

- (A) DDT (B) Deltamethrin
(C) Malathion (D) Permethrin

38. In *E. coli*, the transcription is terminated by

- (A) RNA polymerase (B) DNA polymerase
(C) rho factor (D) H factor

39. Which one of the following is considered to be the first biological catalyst when life originated on earth ?

- (A) RNA (B) DNA
(C) Protein (D) Lipid

40. The only Floating National Park in the world is

- (A) Keibul Lamjao National Park (B) Keoladeo Ghana National Park
(C) Chilka Lake Sanctuary (D) Nal Sarovar Sanctuary

41. The enzyme that is used to make the first strand of cDNA from mRNA is

- (A) Restriction endonuclease (B) Reverse transcriptase
(C) DNA polymerase (D) T4 DNA ligase

42. Which of the following is an example of Pleiotropy ?

- (A) Colour blindness (B) Sickle cell anemia
(C) Blood groups (D) Phenylketonuria

43. The transgenic animals are those which have

- (A) Foreign DNA in some of its cells (B) Foreign DNA in all of its cells
(C) Foreign RNA in all of its cells (D) DNA and RNA both in the cells

- 44. Marijuana is extracted from the leaves of**
(A) *Areca catechu* (B) *Thea sinensis*
(C) *Cannabis indica* (D) *Cannabis sativa*
- 45. The mode of action of Novobiocin is**
(A) Induces abnormal protein synthesis (B) Inhibits DNA polymerization
(C) Interferes with protein synthesis (D) Inhibits cell wall synthesis
- 46. Sacred groves are found in**
(A) Meghalaya (B) Punjab
(C) Jammu and Kashmir (D) Bihar
- 47. Cyclosporine-A : an immunosuppressive agent is produced by the fungus**
(A) *Fusarium graminearum* (B) *Trichoderma polysporum*
(C) *Aspergillus niger* (D) *Chaetomium cellulolyticum*
- 48. The non-medicated IUD is**
(A) Copper T (B) Progestasert
(C) Lippes loop (D) LNG-20
- 49. The most common organ involved in extra-intestinal amebiasis is**
(A) Liver (B) Lungs
(C) Brain (D) Spleen
- 50. The type of ovule present in *Opuntia* is**
(A) Amphitropous (B) Campylotropous
(C) Circinotropous (D) Orthotropous
- 51. The mode of asexual reproduction in *Euglena* is**
(A) Transverse binary fission (B) Longitudinal binary fission
(C) Multiple fission (D) Irregular binary fission
- 52. The growth of a population is determined by**
(A) Natality rate (B) Mortality rate
(C) Vital index (D) Population density
- 53. The complementary, synthetic and random DNA are used as**
(A) Cloning vectors (B) Recombinant DNA
(C) Transposons (D) Passenger DNA
- 54. The Parasite which has been recently eradicated from India**
(A) *Leishmania donovani* (B) *Dracunculus medinensis*

(C) *Toxoplasma gondii* (D) *Taenia solium*

55. Interferons have been used for the treatment of

- (A) Ascariasis (B) Influenza
(C) Filariasis (D) Giardiasis

56. World AIDS day is celebrated every year on

- (A) 1st November (B) 5th June
(C) 1st December (D) 31st December

57. The term genetics was coined by

- (A) G.J. Mendel (B) William Bateson
(C) H.D. Vries (D) A.V. Leeuwenhoek

58. Tenebrinoid beetles are famous for

- (A) Conscious mimicry (B) Aggressive mimicry
(C) Mullerian mimicry (D) Bateson mimicry

59. The period of fishes is

- (A) Jurassic (B) Devonian
(C) Cretaceous (D) Silurian

60. The part of protein coding gene that is translated into protein is called

- (A) Primary transcript (B) Exons
(C) Open reading frames (D) Antisense strand

ROUGH WORK