

CUET (UG) 2024

Questions, Answer Key & Solutions

Subject: Biology | Code: 304 EH | Medium: English | Test Date: 15-MAY-2024

(Do not open this Test Booklet until you are asked to do so)

Time Allowed: 45 minutes	Maximum Marks: 200	Total Questions : 50	Number of Questions to be answered : 40
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Kindly read the Instructions given on this Page and Back Page carefully before attempting this Question Paper

Important Instructions for the Candidates:

1. This Test Booklet contains **50** questions printed in English. Out of these, the candidate is required to answer any **40** questions. If a candidate answers more than 40 questions, the first 40 answered questions will be considered for evaluation.
2. When you are given the OMR Answer Sheet, fill in your particulars on it carefully with blue/black ball point pen only.
3. Use only Blue/Black Ball Point Pen for marking responses.
4. The CODE for this Test Booklet is **C**. Make sure that the CODE printed on the OMR Answer Sheet is the same as that on this Test Booklet. Also ensure that your Test Booklet No. and OMR Answer Sheet No. are exactly the same. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the OMR Answer Sheet. No claim in this regard will be entertained after five minutes from the start of the examination.
5. Before attempting the question paper kindly check that this Test Booklet has total **12** pages and OMR Answer Sheet consists of one sheet. At the start of the examination within first five minutes, candidates are advised to ensure that all pages of Test Booklet and OMR Answer Sheet are properly printed and they are not damaged in any manner.]
6. Each question has four answer options. Out of these four options choose the **MOST APPROPRIATE OPTION** and darken/blacken the corresponding circle on the OMR Answer Sheet with a Blue/Black Ball Point Pen.
7. Five (5) marks will be given for each correct answer. One (1) mark will be deducted for each incorrect answer. If more than one circle is found darkened/blackened for a question, then it will be considered as an incorrect answer. Unanswered questions will be given no mark.

Name of the Candidate (in Capital Letters): _____

Application Number (in figures): _____

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Invigilator's Signature: _____

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BIOLOGY

1. Cells present in the mature pollen grains are.....

- (1) Central cell and generative cell
- (2) Antipodal cell and vegetative cell
- (3) Vegetative cell and generative cell
- (4) Filiform cell and micropylar cell

Ans (3)

2. Match **List-I** with **List-II**

List-I Structure		List-II Function	
(A)	Filiform apparatus	(I)	Made up of sporopollenin
(B)	Tapetum	(II)	Attachment of ovule to the placenta
(C)	Exine	(III)	Guides pollen tube into the synergid
(D)	Funicle	(IV)	Nourishes the pollen grain

Choose the correct answer from the options given below:

- (1) (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
- (2) (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
- (3) (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
- (4) (A) - (I), (B) - (III), (C) - (IV), (D) - (II)

Ans (2)

3. Primary Endosperm Nucleus is the product of:

- (1) Double fusion
- (2) Triple fusion
- (3) Parthenogenesis
- (4) Apomixis

Ans (2)

4. In humans, mammary gland is divided into lobes.

- (1) 10-12
- (2) 25-30
- (3) 30-35
- (4) 15-20

Ans (4)

5. Sex in human embryo is determined by :

- (1) 'X' chromosome of egg
- (2) 'X' or 'Y' chromosome of sperm
- (3) Only 'Y' chromosome of sperm
- (4) Health of mother

Ans (2)

6. Arrange the following stages of oogenesis in order of their occurrence.

- (A) Ovum
- (B) Oogonia
- (C) Primary oocyte
- (D) Secondary oocyte

Choose the correct answer from the options given below :

- (1) (C), (B), (D), (A)
- (2) (B), (C), (D), (A)
- (3) (D), (C), (A), (B)
- (4) (A), (D), (C), (B)

Ans (2)

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7. Which of the following pair of contrasting traits was not studied by Mendel?
 (1) Pink and white flowers
 (2) Inflated and constricted pods
 (3) Axial and terminal flowers
 (4) Green and yellow pods

Ans (1)

8. Failure of chromatids to segregate during cell division cycle results in:
 (1) Polyploidy (2) Euploidy
 (3) Aneuploidy (4) Autopolyploidy

Ans (3)

9. Select the correctly matched pair about sickle cell anaemia :

Genotype : Phenotype

- (A) Hb^A Hb^A : Diseased phenotype
 (B) Hb^A Hb^S : Diseased phenotype
 (C) Hb^S Hb^S : Diseased phenotype
 (D) Hb^S Hb^A : Carrier of disease

Choose the correct answer from the options given below :

- (1) (C) and (D) only (2) (A) and (C) only
 (3) (B), (C) and (D) only (4) (A), (B), and (C) only

Ans (1)

10. Match List-I with List-II:

List-I Scientists		List-II Discovery	
(A)	Sutton and Boveri	(I)	X-Body
(B)	Sturtevant	(II)	Chromosomal Theory of Inheritance
(C)	Henking	(III)	Transformation in bacteria
(D)	Griffith	(IV)	Genetic maps

Choose the correct answer from the options given below :

- (1) (A) - (II), (B) - (IV), (C) - (I), (D) - (III)
 (2) (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
 (3) (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
 (4) (A) - (IV), (B) - (I), (C) - (III), (D) - (II)

Ans (1)

11. Which of the following statements are incorrect with respect to nucleotides ?

- (A) Purines and pyrimidines are nitrogenous bases.
 (B) Nucleotides are non-enzymatic molecules.
 (C) Phosphate group is linked to - OH of 5' C of a nucleoside through phosphoester linkage.
 (D) In RNA, every nucleotide residue has an additional - OH group present at 2' position in the ribose.
 (E) Thymine is an example of Pyrimidine.

Choose the correct answer from the options given below :

- (1) (A), (B) and (E) only (2) (D) and (E) only
 (3) (B) and (D) only (4) (B) and (E) only

Ans (1)

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12. Arrange the given steps of DNA fingerprinting in the sequence from initiation to end.

- (A) Digestion of DNA by restriction endonuclease
- (B) Isolation of DNA
- (C) Hybridisation using labelled VNTR probe
- (D) Transferring (blotting) of separated DNA fragments to synthetic membrane

Choose the correct answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (A), (D), (C), (B)
- (3) (B), (A), (D), (C)
- (4) (C), (A), (B), (D)

Ans (3)

13. Nucleosome is associated with _____ molecules of histones.

- (1) Four
- (2) Nine
- (3) Two
- (4) Eight

Ans (4)

14. Select the observations drawn from the human genome project which are correct.

- (A) The human genome contains 3164.7 million bp.
- (B) The average gene consists of 3000 bases.
- (C) Total number of genes is estimated at 30,000
- (D) The functions are unknown for over 50% of discovered genes.
- (E) Less than 2% of the genome codes for proteins.

Choose the correct answer from the options given below :

- (1) (A), (B), (C) and (D) only
- (2) (A), (B), (C), (D) and (E) only
- (3) (A), (C) and (E) only
- (4) (A), (B), (C), (D) and (E)

Ans (4)

15. Analogous structures are result of :

- (1) Convergent evolution
- (2) divergent evolution
- (3) Parallel evolution
- (4) Retrogressive evolution

Ans (1)

16. Which of the following does not affect the Hardy–Weinberg equilibrium ?

- (1) Natural selection
- (2) Genetic drift
- (3) Gene pool
- (4) Gene migration

Ans (3)

17. Which of the following primates was more like an ape?

- (1) *Homo erectus*
- (2) *Dryopithecus*
- (3) *Australopithecines*
- (4) *Ramapithecus*

Ans (2)

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18. Match List-I with List - II :

List-I Placental mammals		List-II Counterpart marsupials	
(A)	Anteater	(I)	Spotted cuscus
(B)	Bobcat	(II)	Numbat
(C)	Lemur	(III)	Flying Phalanger
(D)	Flying squirrel	(IV)	Tasmanian tiger cat

Choose the correct answer from the options given below :

- (1) (A) – (II), (B) – (IV), (C) – (I), (D) – (III) (2) (A) – (II), (B) – (I), (C) – (IV), (D) – (III)
 (3) (A) – (IV), (B) – (I), (C) – (II), (D) – (III) (4) (A) – (IV), (B) – (I), (C) – (III), (D) – (II)

Ans (1)

19. Identify the incorrect statement/s :

- (A) Intestinal perforation and death may occur in severe cases of typhoid infection.
 (B) Common cold is caused by Rhinoviruses.
 (C) Lips and fingernails may turn grey to bluish colour in severe cases of pneumonia.
 (D) Pneumonia is caused by *Salmonella*.
 (E) Typhoid fever could be confirmed by Widal test.

Choose the answer from options given below :

- (1) (A), (C) and (D) only (2) (B) and (E) only
 (3) (D) only (4) (A) and (D) only

Ans (3)

20. Match List-I with List - II :

List-I Types of barriers		List-II Examples	
(A)	Cytokine barriers	(I)	Mucus coating
(B)	Physical barriers	(II)	Tears from eyes
(C)	Cellular barriers	(III)	Phagocytosis
(D)	Physiological barriers	(IV)	Interferons

Choose the correct answer from the options given below :

- (1) (A) – (IV), (B) – (III), (C) – (I), (D) – (II) (2) (A) – (II), (B) – (IV), (C) – (III), (D) – (I)
 (3) (A) – (II), (B) – (I), (C) – (IV), (D) – (III) (4) (A) – (IV), (B) – (I), (C) – (III), (D) – (II)

Ans (4)

21. Smack is chemically

- (1) Diacetyl morphine (2) Coaine
 (3) Benzodiazepine (4) Amphetamine

Ans (1)

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22. Antibodies are secreted by:

- (1) T-Cells (2) B-Cells
(3) α -Cells (4) β -Cells

Ans (2)

23. In sewage treatment, flocs are:

- (1) the solids that settle during sedimentation.
(2) the supernatant that is formed above the primary sludge.
(3) the masses of bacteria associated with fungal filaments
(4) the bacteria which grow anaerobically and are also called anaerobic sludge digesters.

Ans (3)

24. Match List-I with List-II

List-I Products		List-II Organisms	
(A)	Statin	(I)	Streptococcus
(B)	Clot buster	(II)	Trichoderma
(C)	Swiss cheese	(III)	Monascus
(D)	Cyclosporin-A	(IV)	Propionibacterium

Choose the correct answer from the options given below:

- (1) (A) - (II) (B) - (I) (C) - (IV) (D) - (III) (2) (A)-(III), (B) - (I) (C) - (IV) (D) - (II)
(3) (A) - (III) (B) - (IV) (C) - (II) (D) - (I) (4) (A)-(II), (B) - (III), (C) - (I), (D)-(IV)

Ans (2)

25. The beetle used as a biocontrol agent for aphids and mosquitoes is:

- (1) Trichoderma (2) Dragonflies
(3) Ladybird (4) Silver fish

Ans (3)

26. Downstream processing method involves:

- (1) Identification (2) Amplification
(3) Fermentation (4) Purification

Ans (4)

27. Which of the following is set the correctly matched pair of organism and its respective cell wall degrading enzyme ?

- (1) Fungi-Chitinase (2) Algae-Methylase
(3) Plant cells-Cellulase (4) Bacteria-Lysozyme

Ans (2)

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28. Arrange the following steps involved in transformation of bacteria in a sequence from initiation to end
- (A) Incubation of rDNA with bacterial cell on ice
 - (B) Treatment with divalent cations
 - (C) Heat shock treatment
 - (D) Selection on antibiotic containing agar plate
 - (E) Placed them again on ice

Choose the correct answer from the options given below:

- (1) (A), (B), (D), (C), (E)
- (2) (B), (A), (C), (E), (D)
- (3) (B), (C), (D), (A), (E)
- (4) (A), (C), (B), (D), (E)

Ans (2)

29. Which of the following statements are incorrect
- (A) Fragments of DNA can be separated by ELISA.
 - (B) Transformation is a procedure through which a piece of DNA is introduced in a host bacterium
 - (C) Recombinant DNA technology does not involve isolation of a desired DNA fragment.
 - (D) DNA ligases are used for stitching DNA fragments into a vector.

Choose the answer from the options given below

- (1) (A) and (C) only
- (2) (A) and (B) only
- (3) (B) and (C) only
- (4) (A), (B) and (D) only

Ans (1)

30. Which of the following statements are true?
- (A) Milk obtained from 'Rosie' is nutritionally more balanced for human babies than natural human milk.
 - (B) Biopiracy refers to the use of bioresources without proper authorisation from MNCs.
 - (C) GEAC is the decisive body for safety and validity of GMOs and GM research respectively.
 - (D) Transgenic animals help us to understand the contribution of genes in the development of diseases.

Choose the correct answer from the options given below:

- (1) (A) and (C) only
- (2) (C) and (D) only
- (3) (A) and (D) only
- (4) (B) and (C) only

Ans (3)

31. Match List-I with List-II :

List-I	List-II
Transgene	Used for Products
(A) α -I-antritypsin	(I) <i>Meloidegynae incognitia</i>
(B) cryIAc	(II) Corn borer
(C) Antisense RNA	(III) Treat emphysema
(D) cryIAb	(IV) Cotton bollworms

Choose the correct answer from the options given below:

- (1) (A)-(III), (B) - (IV), (C) - (I), (D) - (II)
- (2) (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (3) (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
- (4) (A) - (I), (B) - (IV), (C) - (III), (D) - (II)

Ans (1)

32. Expand "GEAC"

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- (1) Genetic and Environment Advisory Committee
- (2) Gene Establishment Approval Committee
- (3) Genetic Engineering Advisory Committee
- (4) Genetic Engineering Approval Committee

Ans (4)

33. When an insect feeds on the Bt plant, the insect dies due to the conversion of inactive protein to active protein in:

- (1) Alkaline pH of the gut
- (2) Acidic pH of the gut
- (3) Acidic pH of the saliva
- (4) alkaline pH of saliva

Ans (1)

34. Match List-I with List-II

List-I	List-II
Interspecies Relationships	Features
(A) Commensalism	(I) One species is benefitted at the expense of the other
(B) Mutualism	(II) One species is harmed and the other is unaffected
(C) Amensalism	(III) Both the species are benefitted
(D) Parasitism	(IV) One species benefits and other remains unaffected

Choose the correct answer from the options given below:

- (1) (A)-(I), (B) - (II), (C) - (III), (D) - (IV)
- (2) (A) - (IV), (B) - (III), (C) - (II), (D) - (I)
- (3) (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
- (4) (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

Ans (4)

35. In a country, at any time, the population has the same number of young and mature ones. What type of growth does it reflect ?

- (1) Expanding
- (2) Declining
- (3) Stable
- (4) S-shaped

Ans (3)

36. Two closely related species can co-exist indefinitely and violate the Gause's 'Competitive Exclusion Principle' by :

- (1) eliminating the inferior species.
- (2) resource partitioning.
- (3) interacting with each other symbiotically .
- (4) changing the area of grazing.

Ans (2)

37. The process of mineralisation by microorganisms helps in the release of:

- (1) inorganic nutrients from detritus and formation of humus.
- (2) organic nutrients from humus.
- (3) inorganic nutrients from humus.
- (4) organic and inorganic nutrients from detritus

Ans (3)

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38. In which ecosystem is the biomass of primary consumers greater than producers?
(1) Forests (2) Grassland (3) Desert (4) Sea

Ans (4)

39. Choose the correct statements with respect to decomposition from the following:
(A) Decomposition is an anaerobic process.
(B) Decomposition rate of detritus depends upon the chemical nature of it.
(C) Water-soluble organic nutrients go into the soil and get precipitated in the process of leaching.
(D) Humification follows mineralisation
Choose the correct answer from the options given below:

- (1) (B) and (D) only (2) (A) and (C) only
(3) (B) and (C) only (4) (A) and (D) only

Ans (1)

40. Match List I with list II

List I concepts	List II Explanation
(A) standing state	(i) Available biomass for the consumption of heterotrophs
(B) Secondary productivity	(ii) Rate of formation of organic matter by consumers
(C) Standing crop	(iii) Mass of living matter in a trophic level at a given time
(D) Net primary productivity	(iv) Amount of mineral nutrients in the soil at a given time

Choose the correct answer from the options given below

- (1) (A) – (IV), (B) – (III), (C) – (II), (D) – (I)
(2) (A) – (I), (B) – (II), (C) – (III), (D) – (IV)
(3) (A) – (IV), (B) – (II), (C) – (III), (D) – (I)
(4) (A) – (I), (B) – (IV), (C) – (II), (D) – (II)

Ans (3)

Read the passage carefully and give the answer to the next five questions:

India was amongst the first countries in the world to initiate action plans and programmes at a national level to attain total reproductive health as a social goal. These programmes called 'family planning' were initiated in 1951 and were periodically assessed over the past decades. Improved programmes covering wider reproduction-related areas are currently in operation. Creating awareness among the people about various reproduction-related aspects, and providing facilities and support for building up a reproductively healthy society are the major tasks under these programmes

41. Which of the following is not a Sexually transmitted Disease ?
(1) Chlamydia
(2) Filariasis
(3) Genital herpes
(4) Trichomoniasis

Ans (2)

42. Which of the following statements is incorrect with respect to Medical Termination of Pregnancy ?

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- (1) They are considered safe during the first, trimester
- (2) It is legalised in India from 1971.
- (3) MTPs can be performed even after 24 weeks, but with the opinion of 2 registered medical practitioners on specific grounds.
- (4) About 20% of the total number of conceived pregnancies undergo MTP in a year globally.

Ans (3)

43. Match list I with List II

List I Various Assisted Reproductive Technologies	List II Process Involved
(A) ZIFT	(i) Formation of embryo in vitro by injecting sperm directly into ovum
(B) ICSI	(ii) Transferring of embryo with more than 8 blastomeres into the uterus
(C) IUI	(iii) Transferring of fertilised egg up to 8 blastomeres into fallopian tube
(D) IUT	(iv) Transfer of semen from a healthy donor into the uterus Artificially

Choose the correct answer from the option given below :

- (1) (A) – (III), (B) – (I), (C) – (II), (D) – (IV)
- (2) (A) – (III), (B) – (I), (C) – (IV), (D) – (II)
- (3) (A) – (II), (B) – (III), (C) – (IV), (D) – (I)
- (4) (A) – (IV), (B) – (III), (C) – (I), (D) – (II)

Ans (2)

44. Which of the following methods of contraception is not meant for females

- (1) IUDs
- (2) Lactational amenorrhea
- (3) Vasectomy
- (4) Condoms

Ans (3)

45. 'Saheli'- an oral contraceptive pill, also knowus the 'Once a week' pill, was developed by :

- (1) AIIMS
- (2) NBRI
- (3) CDRI
- (4) NBPG

Ans (3)

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Read the passage carefully and give the answers to the next five questions:

Does the number of species in a community really matter to the functioning of the ecosystem? This is a question for which ecologists have not been able to give a definitive answer. For many decades, ecologists believed that communities with more species, generally, tend to be more stable than those with less species. According to the International Union for Conservation of Nature and Natural Resources (IUCN) (2004), the total number of plant and animal species described so far is more than 1.5 million.

46. Which of the following is not a characteristic of a stable biological community ?

- (1) It must be resistant to invasions by alien species.
- (2) It should not show too much variation in productivity from year to year.
- (3) All the species are equally important in a stable community and absence of anyone leads to its instability.
- (4) It is resilient to occasional disturbances, whether natural or man-made.

Ans (3)

47. In rivet popper hypothesis the 'rivet' signifies ?

- (1) key species
- (2) Endemic species
- (3) Community
- (4) Species

Ans (4)

48. The scientist who proved that species richness correlates with the stability of a community, was _____.

- | | |
|------------------|-------------------|
| (1) Paul Ehrlich | (2) David Tilman |
| (3) Robert May | (4) Edward Wilson |

Ans (2)

49. Among the vertebrates, which of the following is the most species-rich group?

- | | |
|--------------|-------------|
| (1) Reptiles | (2) Fishes |
| (3) Insects | (4) Mammals |

Ans (2)

50. Which are the various hypotheses proposed in explaining the greatest biological diversity in tropics except:

- (1) Temperate regions are subjected to glaciation, but tropical latitudes have remained relatively undisturbed.
- (2) Tropical environments have more humidity/moisture which helps the diversity to flourish.
- (3) Tropical environments are less seasonal and more constant.
- (4) There is more solar energy available in the tropics which contributes to higher productivity and hence, biodiversity.

Ans (2)






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