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Previous Year Question

1. Which one of the following guides the entry of the pollen tube into the embryo sac?

1. Antipodal cell
2. Filiform apparatus
3. Micropyle
4. Synergids

(A) Malaria (i) Inflammation of lower limb

(B) Filariasis (ii) Cycles of fever

(C) Ring worms (iii) Blood clots and excess mucus in stools

(D) Amoebiasis (iv) Scaly lesions on nails

2. Antibody molecule has:

1. Two peptide chains
2. Three peptide chains
3. Four peptide chains
4. One polypeptide chain

3. Choose the correct formula showing the relationship between **Gross Primary Productivity (GPP)**, **Respiration losses (R)**, and **Net Primary Productivity (NPP)**.

1.  $GPP = R / NPP$
2.  $GPP = 2NPP + R$
3.  $GPP = NPP - R$
4.  $GPP - R = NPP$

5. Match **List-I (Producer)** with **List-II (Acid)**.

Producer	Acid
(A) Clostridium butylicum	(i) Lactic acid
(B) Aspergillus niger	(ii) Butyric acid
(C) Acetobacter aceti	(iii) Citric acid
(D) Lactobacillus	(iv) Acetic acid

4. Match **List-I (Disease)** with **List-II (Characteristic symptoms)**.

**List-I**                      **List-II**

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6. Which of the following is opposite to the **micropylar end of ovule**?

1. Hilum
2. Chalaza
3. Funicle
4. Nucellus

9. The process of copying genetic information from one strand of DNA into RNA is termed as:

1. Replication
2. Translation
3. Transcription
4. Regulation

7. Match **List-I (Technique / term)** with **List-II (Features)**.

Technique	Feature
(A) Amniocentesis	(i) Ligation of fallopian tube
(B) Maternal mortality rate	(ii) Ligation of vas deferens
(C) Vasectomy	(iii) Death rate
(D) Tubectomy	(iv) Testing of sex

10. Arrange the following events in the correct order pertaining to **fertilization in human reproductive system**:

- (A) Blastocyst becomes embedded in endometrium
- (B) Finger-like projections appear on trophoblast
- (C) Blastomeres arranged into trophoblast and inner cell mass
- (D) Zygote divides to form morula

11. Which of the following are **not involved in intrauterine devices (IUDs)**?

- (A) Lippes loop
- (B) LNG-20
- (C) Saheli
- (D) Implants

12. Match **List-I (Character)** with **List-II (Recessive trait)**.

Character	Recessive trait
(A) Flower colour	(i) Green
(B) Seed colour	(ii) Yellow

8. Which type of innate immunity is exhibited by **interferons secreted by virus-infected cells**?

1. Physical barriers
2. Cytokine barriers
3. Physiological barriers
4. Cellular barriers

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(C) Pod colour (iii) Constricted

(D) Pod shape (iv) White

**Gene**                      **Encodes**

(A) 'i'                      (i) Permease

(B) 'z'                      (ii) Repressor

(C) 'y'                      (iii) Transacetylase

(D) 'a'                      (iv)  $\beta$ -galactosidase

13. Which of the following is **not associated with transcription in bacteria?**

1. Rho factor
2. Methyl guanosine triphosphate
3. Sigma factor
4. DNA-dependent RNA polymerase

14. Which of the following disorders are the results of **aneuploidy?**

- (A) Haemophilia
- (B) Down's syndrome
- (C) Thalassemia
- (D) Turner's syndrome

15. Which option expresses **intermediate skin colour** in an individual?

1. AABbCC
2. aabbcc
3. AaBbCc
4. aaBBcc

16. Match **gene name with encoded enzyme.**

17. Which of the following is **incorrect regarding drug abuse?**

1. Cannabinoids affect cardiovascular system
2. Heroin extracted from Papaver somniferum
3. Nicotine is a sedative and pain killer
4. Excess dosage of coca alkaloid causes hallucinations

18. Arrange steps involved in **gel electrophoresis:**

- (A) Exposure to UV light
- (B) Staining with ethidium bromide
- (C) Movement of DNA fragments toward anode
- (D) Elution

19. Match **List-I (Product)** with **List-II (Producer).**

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Product	Producer
(A) Citric acid	(i) Trichoderma polysporum
(B) Ethanol	(ii) Monascus purpureus
(C) Statins	(iii) Saccharomyces cerevisiae
(D) Cyclosporin -A	(iv) Aspergillus niger

23. Baculoviruses are pathogens that attack:

1. Insects
2. Roundworms
3. Molluscs
4. Birds

24. If individuals in reproductive age group exceed pre-reproductive group, population growth is:

1. Expanding
2. Stable
3. Declining

20. EcoRI, a significant tool in **rDNA technology**, is a:

1. Bacteria
2. Plasmid
3. Enzyme
4. Purine

25. Which statements are true regarding **homologous organs**?

- (A) Homology indicates common ancestry
- (B) Whale and cheetah share similar forelimb bone pattern
- (C) Vertebrate heart is example of homologous organ
- (D) Thorn of Bougainvillea and tendril of Cucurbita

21. Arrange geological periods from **latest to oldest**:

- (A) Triassic
- (B) Carboniferous
- (C) Tertiary
- (D) Jurassic

26. Arrange plant groups according to **appearance on earth**:

- (A) Angiosperms
- (B) Seed ferns
- (C) Rhynia-type plants
- (D) Psilophyton

22. Which steps are related to **PCR**?

- (A) Extension
- (B) Annealing
- (C) Propagation
- (D) Denaturation

27. If a man is eating fish as food, which trophic level is he in?

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2. Second
  3. Third
  4. Fourth
- 

- (A) Biogas
  - (B) Activated sludge
  - (C) Flocs
  - (D) Primary sludge
- 

28. Thorn of Bougainvillea and tendril of Cucurbita are:

1. Homologous structures
  2. Analogous structures
  3. Vestigial structures
  4. Developing structures
- 

32. Wildlife safari parks are example of:

1. Ex-situ conservation
  2. In-situ conservation
  3. Biodiversity hotspots
  4. Sacred groves
- 

29. A small standing crop of phytoplankton supporting large zooplankton crop represents:

1. Inverted pyramid of biomass
  2. Upright pyramid of biomass
  3. Upright pyramid of energy
  4. Inverted pyramid of energy
- 

33. Humification leads to:

1. Soil erosion
  2. Soil conservation
  3. Accumulation of humus
  4. Accumulation of salts
- 

30. The first isolated restriction endonuclease was:

1. Hind II
  2. EcoRI
  3. BamHI
  4. Pvu II
- 

34. If double-stranded DNA has **15% adenine**, percent of cytosine will be:

1. 15%
  2. 30%
  3. 35%
  4. 85%
- 

31. Arrange products formed during **sewage treatment** in correct sequence:

35. Transgenic animals help to study diseases such as:

1. Cholera and typhoid
  2. Leptospirosis and ringworm
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3. Cancer and cystic fibrosis
  4. Pneumonia and kala-azar
- 

2. 50%
  3. 1–5%
  4. 2–10%
- 

36. Genetically modified plants are useful in:

1. Increasing crop yield
  2. Making crops tolerant to stresses
  3. Reducing mineral nutrient use
  4. Decreasing post-harvest losses
- 

40. ELISA is based on principle of:

1. Antigen-antibody interaction
  2. PCR
  3. Radioactive molecule
  4. Cloning of DNA
- 

37. Which of the following is the **primary female sex organ**?

1. Mammary glands
  2. Uterus
  3. Ovaries
  4. Cervix
- 

41. Which of the following is **not included in in-situ conservation**?

1. Zoological park
  2. National park
  3. Wildlife sanctuary
  4. Biosphere reserves
- 

38. Which structure is **haploid (n)** in male reproductive system?

1. Secondary spermatocytes
  2. Primary spermatocytes
  3. Leydig cells
  4. Sertoli cells
- 

42. Which of the following **does not exhibit a narrowly utilitarian argument for conserving biodiversity**?

1. Construction materials
  2. Pollination
  3. Industrial products
  4. Medicines
- 

39. Percentage of **photosynthetically active radiation (PAR)** in solar radiation is:

1. 100%
- 

43. Which of the following might **not account for the greater biological diversity in the tropics**?

1. Frequent glaciations in the past
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2. More solar energy available
  3. Less seasonal and more constant climate
  4. Undisturbed for millions of years
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44. How many **episodes of mass extinction of species** have occurred since the origin and diversification of life on Earth?

1. Two
  2. Three
  3. Five
  4. Seven
- 

45. Which of the following **hotspots does not cover India's biodiversity region?**

1. Western Ghats–Sri Lanka
  2. Amazon forests
  3. Indo-Burma
  4. Himalaya
- 

46. With reference to **reproduction in flowering plants**, which of the following is incorrect?

1. Endosperm develops into seed
  2. Ovary develops into fruit
  3. Ploidy of PEN is  $3n$
  4. Syngamy is fusion of male and female gamete
- 

47. Which of the following is **not a stage of growing embryo in dicot plants?**

1. Heart-shaped stage
  2. Globular stage
  3. Pre-embryo stage
  4. Rhombus stage
- 

48. The coconut water from tender coconut is actually:

1. Free-nuclear endosperm
  2. Synergids
  3. Antipodal cells
  4. Scutellum
- 

49. Formation of diploid zygote is a result of:

1. Emasculation
  2. Triple fusion
  3. Syngamy
  4. Bagging
- 

50. If there are **38 chromosomes in the zygote**, how many chromosomes will be present in the **haploid egg cell?**

1. 38
  2. 19
  3. 57
  4. 76
-

