

PREVIEW QUESTION BANK(Single)

Module Name : NCET Language: ENGLISH
 Section Name : 304-Biology Biological Studies Biotechnology Bioch
 Exam Date : 29-Apr-2025 Batch : 09:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Ne M
Section : 304-Biology Biological Studies Biotechnology Bioch				
Topic : Topic 84				
Q.Type : Objective Question				
1	4005	Pollens are well preserved as fossils because of the presence of: 1. Intine 2. Pectin 3. Sporopollenin 4. Cellulose (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
2	4006	Select the statements which are true with respect to polyembryony. A. Seeds of orange show polyembryony. B. Cells of the inner integument protrude in the embryo sac and develop into embryos. C. Only two embryos are always produced in polyembryony. D. Embryos are formed without fertilisation. Choose the correct answer from the options given below: 1. A and D only 2. B and C only 3. A, D and C only 4. B, C and D only (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
3	4007		4.0	1.00

Arrange the given steps involved in the process of human fertilisation and implantation in the correct order of their occurrence .

- A. Formation of morula.
- B. Formation of 2nd polar body.
- C. Fusion of sperm with ovum in the ampullary region.
- D. Attachment of blastocyst to endometrium.
- E. Mitotic division in zygote.

Choose the **correct** answer from the options given below:

- 1. C, B, A, E, D
- 2. D, A, B, C, E
- 3. C, B, E, A, D
- 4. B, C, E, A, D

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

4	4008	The structural and functional unit between the developing embryo and maternal body is called: 1. Trophoblast 2. Chronic Villi 3. Placenta 4. Endometrium (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

5

4009

Match the **LIST-I** with **LIST-II**

LIST-I (Contraceptive type)		LIST-II (Example)	
A.	Non-medicated IUDs	I.	Progestasert
B.	Copper releasing IUDs	II.	Saheli
C.	Hormone releasing IUDs	III.	Multiload 375
D.	Oral Contraceptive	IV.	Lippes loop

Choose the **correct** answer from the options given below:

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

4.0

1.00

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

6	4010	The rise in population of India since independence from approximately 350 million to close to billion mark by 2000 is attributed to: 1. Rise in IMR and MMR, decline in death rate and increased number of people in reproducible age. 2. Rise in IMR and decline in MMR. 3. Increase in the number of people in reproducible age and decrease in death rate only. 4. Increase in number of people in reproducible age, decline in IMR, MMR and death rate. (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

7	4011	Match the LIST-I with LIST-II <table> <tr> <th colspan="2">LIST-I (Contribution)</th><th colspan="2">LIST-II (Scientist)</th></tr> <tr> <td>A.</td><td>Chromosomal theory of inheritance</td><td>I.</td><td>Henking</td></tr> <tr> <td>B.</td><td>Rediscoverers of Mendel's results</td><td>II.</td><td>Sutton and Boveri</td></tr> <tr> <td>C.</td><td>Linkage</td><td>III.</td><td>DeVries and Correns</td></tr> <tr> <td>D.</td><td>X body</td><td>IV.</td><td>Morgan</td></tr> </table> Choose the correct answer from the options given below: 1. A-IV, B-I, C-II, D-III 2. A-II, B-III, C-IV, D-I 3. A-II, B-IV, C-III, D-I 4. A-I, B-III, C-II, D-IV (A) 1 (B) 2 (C) 3 (D) 4	LIST-I (Contribution)		LIST-II (Scientist)		A.	Chromosomal theory of inheritance	I.	Henking	B.	Rediscoverers of Mendel's results	II.	Sutton and Boveri	C.	Linkage	III.	DeVries and Correns	D.	X body	IV.	Morgan	4.0	1.00
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Q.Type : Objective Question

8	4012		4.0	1.00
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		Which of the following are observed in Turner's Syndrome? A. Absence of X-chromosome. B. Gynaecomastia C. Rudimentary ovaries D. Furrowed tongue Choose the correct answer from the options given below: 1. B only 2. A, B and C only 3. A and C only 4. A, B and D only (A) 1 (B) 2 (C) 3 (D) 4		
Q.Type : Objective Question				
9	4013	RNA Polymerase III is not responsible for the transcription of: 1. 5srRNA 2. Small nuclear RNAs 3. Heterogeneous nuclear RNA 4. tRNA (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
10	4014	According to Erwin Chargaff, which of the following is correct with respect to ratio of bases in DNA? 1. A:G = T:C = 1 2. A:T = G:C $\neq$ 1 3. G:C $\neq$ A:T 4. A:T = G:C = 1 (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
11	4015		4.0	1.00

		Which of the following statements reflect that the biochemical nature of 'transforming principle' in Griffith's experiment is DNA? A. Protease treatment do not affect transformation. B. RNases affect transformation. C. Digestion with DNase inhibit transformation. D. DNA from R bacteria transformed S bacteria and made it virulent. Choose the correct answer from the options given below: 1. A, C and D only 2. A, B and D only 3. B and D only 4. A and C only (A) 1 (B) 2 (C) 3 (D) 4		
Q.Type : Objective Question				
12	4016	Oparin of Russia and Haldane of England proposed that: A. Units of life called spores were transferred to earth and other planets. B. Formation of life was preceded by chemical evolution. C. Life came out of decaying and rotting matter like straw and mud. D. First form of life could have come from pre-existing non-living organic molecules. Choose the correct answer from the options given below: 1. A, B and D only 2. B and D only 3. A and C only 4. B, C and D only (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
13	4017	Ringworm, common infectious disease in man is caused by: 1. <i>Ascaris</i> 2. <i>Wuchereria</i> 3. Tape worm 4. <i>Microsporum</i> (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00

Q.Type : Objective Question				
14	4018	Identify the correct sequence of replication in retroviruses. A. Viral DNA incorporates into host genome. B. New viruses are produced. C. Viral RNA is introduced into animal cell. D. New viral RNA is produced by the infected cell. E. Viral DNA is produced by reverse transcriptase. Choose the correct answer from the options given below: 1. E, D, B, C, A 2. D, A, B, E, C 3. C, E, A, D, B 4. C, B, D, E, A (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
15	4019	A group of students wanted to know in details about the industrial production of citric acid. Which book should be recommended for them to gather more information about associated microbes? 1. Fungi and its industrial application 2. Bacteria and its industrial application 3. Algae and its industrial application 4. Protozoa and its industrial application (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
16	4020	Given below are two statements: Statement I: The greater the BOD of waste water, less is its polluting potential. Statement II: BOD is the amount of oxygen that would be consumed if all the organic matter in one litre of water is oxidised by bacteria. In the light above statements, choose the most appropriate answer from the options given below 1. Both Statement I and Statement II are correct 2. Both Statement I and Statement II are incorrect 3. Statement I is correct but Statement II is incorrect 4. Statement I is incorrect but Statement II is correct (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00

Q.Type : Objective Question

17	4021	Which of the following are microbial biocontrol agents? 1. <i>Trichoderma</i>, Ladybird, Baculoviruses 2. <i>Bacillus thuringiensis</i>, <i>Glomus</i>, <i>Azospirillum</i> 3. <i>Trichoderma</i>, <i>Bacillus thuringiensis</i> 4. Baculoviruses, <i>Anabaena</i>, <i>Bacillus thuringiensis</i> (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

18	4022	Arrange the given steps in amplification of gene of interest by PCR technique in correct sequence. A. Extension of primers B. Primer annealing C. Amplification of gene of interest D. Denaturation Choose the correct answer from the options given below: 1. A, B, D, C 2. D, C, B, A 3. D, B, A, C 4. A, B, C, D (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

19	4023	Identify the correct sequence of steps involved in the production of genetically modified organisms. A. Use of ligases to join foreign DNA to vector DNA. B. Introduction of recombinant DNA into host. C. Identify DNA with desirable genes. D. Maintenance of introduced DNA in host and transfer of DNA to its progeny. E. Cut the foreign DNA and vector DNA with same restriction enzymes. Choose the correct answer from the options given below: 1. C, D, E, A, B 2. D, A, B, E, C 3. C, E, A, B, D 4. B, A, C, D, E (A) 1 (B) 2	4.0	1.00
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		(C) 3		
		(D) 4		
Q.Type : Objective Question				
20	4024	Which of the following is used for early diagnosis of the diseases? A. Serum analysis B. Polymerase Chain Reaction C. Enzyme Linked Immuno Sorbent Assay D. Urine analysis E. Recombinant DNA technology Choose the correct answer from the options given below: 1. A, C and D only 2. B, C and E only 3. A, D and E only 4. B, C and D only (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
21	4025	The organisation set up by the Indian Government to take decisions regarding the validity of GM research is: 1. GMAC 2. GECA 3. GEC 4. GEAC (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
22	4026	A multinational company is using bio-resources of a country without proper authorisation and compensation. This is known as: 1. Exploitation 2. Biopiracy 3. Bio-resource harvesting 4. Intellectual Property Rights (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00

Q.Type : Objective Question

23	4027	Competition is best defined as a process in which 'r' (the intrinsic rate of increase) of one species is: 1. Significantly higher in the presence of another species 2. Significantly lower in the presence of another species 3. Equal in the presence of another species 4. May vary in the presence of other species with temperature (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
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Q.Type : Objective Question

24

4028

4.0

1.00

Match the **LIST-I** with **LIST-II**

LIST-I (Scientist)		LIST-II (Contribution)	
A.	Ramdeo Misra	I.	Increased diversity contribute to higher productivity
B.	Gause	II.	Father of Ecology in India
C.	Paul Ehrlich	III.	Competitive Exclusion Principle
D.	David Tilman	IV.	Rivet Popper Hypothesis

Choose the **correct** answer from the options given below:

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

(A) 1

(B) 2

(C) 3

(D) 4

Q.Type : Objective Question

25	4029	Which among the following is the major conduit for energy flow in aquatic ecosystem? 1. DFC 2. PAR 3. APC 4. GFC	4.0	1.00
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		(A) 1		
		(B) 2		
		(C) 3		
		(D) 4		
Q.Type : Objective Question				
26	4030	The rate of biomass production also known as productivity, is expressed in terms of: 1. $\text{gm}^2\text{yr}^{-1}$ or $(\text{kcal m}^2) \text{yr}^{-1}$ 2. $\text{gm}^{-1}\text{yr}^{-2}$ 3. $(\text{kcal m}^{-1}) \text{yr}^{-2}$ 4. $(\text{kcal m}^{-2}) \text{yr}^{-1}$ or $\text{gm}^{-2}\text{yr}^{-1}$ (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
27	4031	In species area relationship equation $\log S = \log C + Z \log A$, what is C? 1. Richness of species 2. Y- intercept 3. Regression coefficient 4. Area (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00
Q.Type : Objective Question				
28	4032	India is ecologically more diverse nation because it has: 1. More than 50,000 strains of rice, which are genetically different 2. Greater amphibian species in Eastern Ghats than Western Ghats. 3. Greater ecosystem diversity with its deserts, rain forests, wetlands, estuaries etc. 4. Greater amphibian species in Western Ghats than Eastern Ghats. (A) 1 (B) 2 (C) 3 (D) 4	4.0	1.00