

TELANGANA UNIVERSITY
S.S.R. DEGREE COLLEGE, NIZAMABAD (C.C:5029)
V SEMESTER INTERNAL ASSESSMENT II EXAMINATIONS
ZOOLOGY QUESTION BANK

I. Multiple choice questions.

1. Green Biotechnology refers to? [a]
a. Agriculture biology b. Medical c. Field d. Drugs
2. Binding of two different DNA fragments is called? [b]
a. Bonding b. Ligation c. Fusion d. Glueing
3. Plasmids combine with main chromosomal DNA of bacteria are called? [c]
a. PBR³²² b. A plasmid c. Episomes d. cosmids
4. Stem cells are of _____ types [d]
a. 1 b. 6 c. 2 d. 4
5. Restriction endonuclease is [b]
a. Carbon compound b. Enzyme c. Protein d. Carbohydrate
6. First transgenic mammal is [a]
a. Sheep b. Cow c. Donkey d. Man
7. Totipotent is a type of _____ cells [b]
a. Somatic b. Stem c. Germ d. b & c
8. Which technique is involved in production of hybrid cells? [d]
a. Gene b. Embryo c. Hybridization d. Hybridona
9. First transgenic Animals was [c]
a. Fish b. Cow c. Super mouse d. Dolly
10. Who is the father of Biotechnology? [b]
a. Herbert spencer b. Karl ereky c. Collin d. Hohp
11. Chimeric DNA is also called as [d]
a. p-DNA b. H-DNA c. c-DNA d. r-DNA
12. The size of a vector should be [c]
a. Big b. Medium c. Small d. Micro
13. How many types of Restriction endonuclease are present? [b]
a. 2 b. 3 c. 1 d. 4
14. Who discovered restriction endonucleases? [a]
a. W.Arber b. Karl ereky c. Collin d. None
15. White biotechnology refers to? [c]
a. Pest technology b. Medicinal technology c. Industrial technology d. Water technology
16. Cosmids has minimum _____ base pairs? [a]
a. 250 b. 320 c. 140 d. 185
17. Shuttle vectors allows cloning of [b]
a. RNA b. DNA c. Protein d. Bacteria
18. _____ is a extrachromosomal material [d]
a. Cosmid b. Plasmid c. Vector d. b & c
19. Bacillus thuringiensis is? [c]
a. Weedicide b. Insecticide c. Biopesticide d. b & c
20. Adult stem cells are also called as? [b]
a. Stem cells b. Somatic cells c. Germ cells d. None

II. Fill in the blanks.

1. Full form of r-DNA is Recombinant DNA
2. Endonuclease enzyme is used for the fragmentation of DNA.
3. Ligases are also called as Glueing agents
4. Cloning vector is the structures which carry foreign DNA along with its own DNA

5. In P^{BR} 322, 'P' stands for plasmid
6. Ori stands for Origin of replication
7. Size of plasmid is 1kbp-200kbp
8. The hybrid cloning vectors originated from the plasmids is Cosmid
9. ART stands for Assisted reproductive technology
10. Unipotent stem cells are differentiated from Multipotent stem cells
11. HAT stands for Hypoxanthine aminopterin thymidine
12. IVF stands for Invitro fertilization
13. Stem cells are the blastocyst cells which can be modified into other types of tissues
14. Process of specific gene of an organism is introduced into another selected organism is Transgenesis
15. IVF is a process of fertilization invitro
16. Microinjection method is used in production of Transgenic fish organism
17. Full of DNA is Deoxyribo nucleic acid
18. Mast cells are examples of Unipotent stem cells
19. r-DNA technology are invented by Herbert boyr
20. Microinjection method was developed by Marshall A-Barber

III. Short Answers.

1. Cosmids were discovered by?
A: Collin and Hohn in 1978
2. What are the three methods of transgenesis?
A: i) Retroviral vector method ii) Micro injection method iii) Embryonic stem cell method
3. What is transgene?
A: The foreign gene which is being introduced into an organism.
4. Who is the first child born by IVF treatment?
A: Louise Brown on 25th July 1978
5. Who developed hybridoma technology?
A: Georges kohler and cesar Milstein in 1975
6. What are stem cells?
A: Totipotent stem cells, Pleuripotent stem cells, Multipotent stem cells, Unipotent stem cells.
7. Who invented R-DNA technology?
A: Herbert Boyer
8. Stem cells?
A: The blastocyst cells which can be modified into other types of tissues.
9. IVF (Invitro fertilization)?
A: Is a process where an egg is combined with sperm invitro (in glassware)
10. Applications of Bio technology?
A: i) Conservation of environment ii) Biotechnology is useful in solving crimes paternal and maternal cases.