

# O. P. JINDAL SCHOOL, RAIGARH (CG) 496 001, INDIA

Phone: 07762-227042, 227293, (Extn. 227001 - 49801, 02, 04, 06, 09); Fax: 07762-262613; website: www.opjsrgh.in; e-mail: opjsraigarh@jspl.com

## CLASS: XII- BIOLOGY

1. Name the different stains used in light microscopy
2. Describe lytic and lysogenic cycle in short
3. Gram staining technique is a differential staining procedure. Explain the statement.
4. Explain the mechanism of dikaryotization in fungus?
5. Explain the structure and life cycle of chlamydomonas.
6. Explain the following terms in short
  - a)annulus b)apogamy c)apospory d)sorus e)strobilus
7. Give difference between catadromous and anadromous fishes with examples.
8. What are the different types of vascular bundles in flowering plants?
9. What is dendrochronology?
10. Describe the following terms in short
  - a)Leaf gap b)leaf trace c)dictyostele d)callose e)actinostele
11. What are expression vectors?
12. Explain southern blotting? How is it different from western blotting?
13. What is restriction mapping?
14. What are Bt tomatoes and FlavrSavr tomatoes?
15. Describe in short the making of Dolly sheep.
16. Mention the different types of eggs and their cleavage patterns.
17. What is cryptorchidism?
18. What are the different glands present in reproductive system?
19. Give the fate of primary germ layers in man?
20. What are three stages of parturition?

Questions 21-30 **assertion reason** type
21. At birth kangaroos are only a few centimeters long.
22. During cleavage of mammalian zygote, the resulting blastomeres become smaller and smaller.
23. In morula stage, the cells divide without any increase in size.
24. The size of gonads increases at sexual maturity.
25. Some males have no father.
26. Sperms are small and streamlined.
27. Withdrawal before ejaculation is a poor way to prevent pregnancy
28. Viruses can be used in the manufacturing proteins.
29. Genes are multiplied using micro-organisms
30. Plasmids are single stranded extra chromosomal DNA.