SAINIK SCHOOL GOPALGANJ SUB: BIOLOGY CLASS - XII ASSIGNMENT

Lesson: 1: Reproduction in organism

A.Butterfly

B.Crow

`	Q10) Given below are four options you consider the most appropriate			Choose the option
1. Veg	getative propagation in <i>Pistia occur</i> (a) Sucker (c) Runner	s by (b) Offset (d) Rhizome		
2. The	e term homothallic and monoceious (a) Unisexual condition (c) Staminate flowers	(b) Bisex	note ual conditi ate flowers	
3. Idei	lentify the correct sequence of events (a) Gametogenesis,Syngamy,Embryogenesis,Zygote (b) Gametogenesis,Zygote,Syngamy,Embryogenesis (c) Gametogenesis,Embryogenesis,Zygote,Syngamy (d) Gametogenesis,Syngamy,Zygote,Embryogenesis			
4. The	There is no natural death in single celled organisms like <i>Amoeba</i> and bacteria (a) They can not reproduce sexually (b) They reproduce by binary fission (c) Parental body is distributed among the offspring (d) They are microscopic			
5. Dev	velopment of unfertilized ovum into (a) Parthenogenesis (c) Fertilization		nenocarpy	
6. Mul	tiple fission occurs in. a) <i>Amoeba</i> (c) Fungi	(b) <i>Plasn</i> (d) None		
7. Ase	exual reproduction in fungi takes pl a) Gemmule (c) Binary fission	ace by (b) Coni (d) None		
8. Mat	cch the following Column I (Organism)	(A	Colu pproximat	mn II e life span)

1.60 years

2.140 years



The correct sequence is

(a) 3,1,4,2

- (b) 4,3,2,1
- (c) 3,2,1,4
- (d) 2,3,1,4
- 9. A person which shows the secondary sexual characters of both male and female is called
 - (a) Intersex

(b) Hermaphrodite

(c) Bisexual

- (d) Gyanandromorph
- 10. Offspring formed by sexual reproduction exhibit more variations than those formed by asexual reproduction because
 - (a) Sexual reproduction is a lengthy process
 - (b) Gametes of parents have qualitatively different genetic composition
 - (c) Genetic material comes from parents of two different species
 - (d) Greater amount of DNA is involved in sexual reproduction.
- 11. Name the vegetative propagules in the following.
 - (i) Banana
 - (ii) Agave
 - (iii) Bryophyllum
 - (iv) Water Hyacinth
- 12. Differentiate between the following.
 - (a) Oviparous and viviparous
 - (b) Pre-fertilization and post-fertilization events
- 13. How is the sexuality of papaya plant different from a maize plant?
- 14. In which organisms gametes are non motile? How do they reach the female gamete for fertilization?
- 15. Give reasons:
 - (a) Rotifers are called Parthenogenic organisms.
 - (b) Mammals living in natural wild condition are seasonal breeders
 - (c) Water Hyacinth is called an invasive weed
 - (d) Bamboo plants are considered to have unusual flowering response.
 - (e) Marchantia is considered dioeciously.
- 16. Mention the advantages of sexual reproduction. State the different stages of organism's life span.
- 17. You must have seen your mother adding 3-4 globules of yeast to the idli paste she has prepared. Similarly, brewing industry uses yeast in the manufacture of alcohol.
- (a) How does such a small amount of yeast added help to produce thousands of liters of alcohol? Explain how yeast multiplies so fast.
 - (b) Name the process carried out by yeast in these cases.

- 18. In nature, i.e .in the wild birds lay eggs seasonally during a particular time of the year but in poultry farm, eggs are produced throughout the year.
 - (a) Give reason for this observation.
 - (b) Is it ethically /morally correct in your opinion? Justify your argument.
- 19. Describe the different types of asexual reproduction exhibited by unicellular organisms.
- 20. Define external fertilization. Mention its disadvantages.
