

Swotters Academy

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Fest / Exam Name: Ch1 - Reproduction In Organisms		Standard: 12th Science		Subject: Biology		
Student Name:		Section	n:	Roll No.:	Roll No.:	
				Questions: 25 Time: 01:45 hh	:mm Marks:	
1. N 2. N	structions Aake sure to write in the point formation. You handwriti New section on new page Honesty is the best policy.	ng should be n	eat and clean			
			SECTION-A			
Q1.	The statements given below describe certain features t 1. Pistil may have many carpels. 2. Each carpel may have more than one ovule. 3. Each carpel has only one ovule. 4. Pistil have only one carpel. Choose the statements that are true from the options i				1 Mai	
n?	A i and ii. B i and iii. Identify the incorrect statement:		C ii and iv.	D iii and iv	1 Mai	
	toenury the incorrect scatteriers. A In asexual reproduction, the offspring produced are morphologically and genetically identical to the pare C In asexual reproduction, a single parent produces off without the formation of gametes. Which of the following is a post-fertilisation event in fit	spring with or	B Zoospores are sexual D Conidia are asexual st		1 Mai	
	A Transfer of pollen grains.		B Embryo development			
~	C Formation of flower.	f =1==4=b ==	D Formation of pollen g		1 Mai	
	4. Appearance of vegetative propagules from the nodes of plants such as sugarcane and ginger is mainly because: A Nodes are shorter than internodes. B Nodes have meristematic cells. D Nodes have non-photosynthetic cells. 5. Given below are a few statements related to external fertilization. Choose the correct statements: 1. The male and female gametes are formed and released simultaneously. 2. Only a few gametes are released into the medium. 3. Water is the medium in a majority of organisms exhibiting external fertilization. 4. Offspring formed as a result of external fertilization have better. Chance of survival than those formed inside an organism,				1 Mai	
Q6.	A iii and iv. A few statements describing certain features of reprod 1. Gametic fusion takes place. 2. Transfer of genetic material takes place. 3. Reduction division takes place. 4. Progeny have some resemblance with parents. Select the options that are true for both asexual and se			D i and iv.	1 Mai	
	A i and ii. B ii and iii.		C ii and iv.	D i and iii.		
	There are various types of reproduction. The type of re A. The habitat and morphology of the organism. C. Morphology and physiology of the organism. Amoeba and Yeast reproduce asexually by fission and be		B Morphology of the or D The organism's habita		1 Mai	
	A Microscopic organisms.		B Heterotrophic organis	sms.		
09.	C Unicellular organisms. Mention two inherent characteristics of Amoeba and y	east that enable	D Uninucleate organism them to reproduce asexu		1 Mai	
	Rearrange the following events of sexual reproduction embryogenesis, fertilisation, gametogenesis, pollination	in the sequence			1 Mai	
Q11.	Although potato tuber is an underground part, it is con	sidered as a ste	m. Give two reasons.		1 Mai	
			SECTION-B			
Q12.	Is there a relationship between the size of an organism	and its life spar	n? Give two examples in su	pport of your answer.	2 Mar	
Q13.	Between an annual and a perennial plant, which one has	as a shorter juv	enile phase? Give one reas	on.	2 Mar	
014	In the figure given below mark the equile and perionen				2 Mari	

	IV.	water nyacintii	μ.	DUIDIIS	1
Q24.	Differentiat	te between,			4 Marks
	Ovipary an	d vivipary. Cite an example for each type.			

Q25. Do all the gametes formed from a parent organism have the same genetic composition (identical DNA copies of the parental genome)? Analyse 5 Marks the situation with the background of gametogenesis and provide or give suitable explanation.



	y	
Q15.	is the presence of large number of chromosomes in an organism a hindrance to sexual reproduction? Justify your answer by giving suitable reasons.	2 Marks
Q16.	Why do we refer to offspring formed by asexual method of reproduction as clones?	2 Marks
Q17.	What do the following parts of a flower develop into after fertilisation? 1. Ovary 2. Ovules	2 Marks
Q18.	The probability of fruit set in a self-pollinated bisexual flower of a plant is far greater than a dioecious plant. Explain.	2 Marks
Q19.	Is it possible to consider vegetative propagation observed in certain plants like Bryophyllum, water hyacinth, ginger etc., as a type of asexual reproduction? Give two/ three reasons.	3 Marks
Q20.	In haploid organisms that undergo sexual reproduction, name the stage in the life cycle when meiosis occurs. Give reasons for your answer.	3 Marks
Q21.	With which type of reproduction do we associate the reduction division? Analyse the reasons for it.	3 Marks
Q22.	List the changes observed in an angiosperm flower subsequent to pollination and fertilisation.	3 Marks
	anaman a	

SECTION-C Q23. Match the organisms given in Column-'A' with the vegetative propagules given in column 'B'.

	Col. A		Col. B	
	Bryophyllum	a.	Offset	
i.	Agave	b.	Eyes	
ii	Potato	r	Leaf huds	