Half Yearly Examination 2019-20 Sub. : Science

Class: X

	Time	: 2.30 Hrs.	M.M.: 80
		Biology	
P 8	Q.1	What is speciation?	1
	Q.2	Name two diseases that are transmitted sexually.	1
	Q.3	What is the role of seminal vesicles and the prostate g	lands? 2
	Q.4	How are inherited traits different from acquired traits?	2
900 (g) 2021 (g)	Q.5 with	A pea plant with blue colour flower denoted by BB is a pea plant with white flower denoted by bb	crossbred
8977		a) What is the expected colour of the flowers in their F	progeny?
	e provincia Misura e ig	 b) What will be the percentage of plants bearing whit F₂ generation, when the flowers F₁ plants were se 	
		c) State the expected ratio of the flowers in F ₂ generate the help of diagram.	ation with
	Q.6	List three techniques that have been developed to pregnancy.	o prevent 3
	Q.7	a) What is the difference between asexual ar reproduction?	nd sexual
		 Explain why sexually reproducing organisms h chances of survival. 	ave better
		c) Explain the type of asexual reproduction that take hydra with the help of diagram.	es place in

Chemistry

Al

11 3

Q.1	Name one metal that can be cut with knife	1
Q.2	Name the compound :- $CH_3 - C = 0$	1
Q.3	What are amphoteric oxides? Give two examples of amploxides.	hoteric 2
Q.4	Which of the following hydrocarbons undergo addition rea	ection:
	C2H6, C3H8, C3H6, C2H2 and CH4.	
Q.5	Show the formation of Na ₂ O by the transfer of electrons.	3
Q.6	When ethanol reacts with ethanoic acid in the presence of H ₂ SO ₄ ; a substance with fruity smell is produced. Answ following questions:	
	 a) State the class of compounds to which the fruity sn compounds belong. 	nelling
dui.	b) Write the chemical equation for the reaction.	
	c) State the role of Con. H ₂ SO ₄ in this reaction.	751
	Physics	
Q.1	An electric iron draws a current of 4A when connected to a	220 V
main	s. Its resistance must be:	I
	a) 1000Ω	
	b) 100Ω	
	c) 55Ω	
	d) 44Ω	

Q.2 Two wires of equal length, one of copper and the other of manganin (an alloy) have the same thickness. Which one can be used for :

2

- a) Electrical transmission lines.
- b) Electrical heating devices and why? Give reason.
- Q.3 a) State Ohm's law.

- 1

- b) A current of 5A is flowing through a resistor of 15Ω. Calculate the potential difference between the ends of the resistor. 2
- Q.4 a) What are the advantages of connecting electrical devices in parallel with the battery instead of connecting in series? 5
 - An electric iron of resistance 20Ω takes a current of 5A. Calculate the heat developed in 30S.
 - c) State Joule's law of heating.

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KENDRIYA VIDYALAYA SANGATHAN

LUCKNOW REGION

PERIODIC TEST -II

CLASS-X

SUBJECT - SCIENCE

BLUE PRINT

CHAPTER	1 MARKS	2 MARKS			
		2 MANKS	3 MARKS	5 MARKS	TOTA
METALS AND NON-METALS	1/11				25032
	1(1)	1(2)	1(3)		2/61
HEREDITY AND EVOLUTION	1/1)				3(6)
ELECTRICITY	1(1)	1(2)	1(3)		3(6)
ELECTRICITY	1(1)	1(2)			3(0)
CARBON AND ITS COMPOUNDS	-1-7	1(2)	1(3)	1(5)	4(11)
THE TIS COMPOUNDS	1(1)	1(2)	1(3)		1 2 12 2
OW DO ORGANISM REPRODUCE			1(3)		3(6)
- THE PRODUCE	1(1)	1(2)	1(3)	1/6)	****
OTAL	E/E\		777	1(5)	4(11)
	5(5)	5(10)	5(15)	2(10)	40

Marking Scheme class - & Science

Q-No	Answers	574
-11	BIOLOGY	
1.	Fermation of new species-	1
2.	Generalea, syphilis, AIRS (Any two)	
3.	Secrete fluid for nourishment and smooth movement of sperms.	1
	characters that can be transferred to the yest generation are	1
-	inherited traits while the traits that are agained during the	
	lifetime of an individual and connot be transferred to the	
	ment generation are called acquired traite eig body buildings	F
¥8.		
5.	a) Blue	
	b) 25% Bbx Bb	
	<) 3:1 B 8 8 8 .	
	P BP PP TATE THE MENT HER MENT	
1		
6	Carrier method: - Using condons/diaphrage to prevent	
	featilisation	4
	Chemical method: - changes the hormonal balance of perfemale	
	through oral pills so that eggs are not released	
	Surgical method: The vasdefirms in moles or the	
	fallopiantube in females is blocked to prevent the	2
1	transfer of sperms and aggs	
-11	The state of the s	
7-9)	Any two differences Asexual Reproduction Sexual reproduction	
	Only one parent takes part Both male and female	
	take part	
	does not involve fertilisation of Involves fertilisation	
775	gametes of gametes	
	because sexual reproduction gives dise to more variations	
	which are essential for survival under unfavourable	
A	Conditions ATT THE TEST OF THE	

CHEMISTRY	
Q-NO ANSWERS	Mar
1. Sodium	1
2. E-thanoic acid	1
3. Metal oxides that react with both acids and bases.	1
Example ZnO, HO	
4. C3H6, SH2	2
5. 28,1 0 - 280++e-	1
3,60 +4e - , 02-	
	-
No 7.0: - [No +] [:0: 2] - No [0:].	1+1
No.	100
6. Eslers	1
сусоон + с, 4,0H 450 , снасоос, 45 + 430	1
ethanode	1
Delaydrating agent	,
Physics	
1. 55 n	
2. a) capper wire because it has loss resistance and hence good	1
conductor of electricity	1
b) Manganin because is an alloy its resistance is high here	
it produces large amount of heat	1
3.0) Correct statement	101
5) R= 15.12 , I= SA V= IR	11
V= Sx1S = 75 V	1/4
	-
appliance att the some without	-
Overall resistance is reduced due to which current from the power. Supply is high	2
Even if one appliance slope uniting other and	
normally (Any two)	-
b) R= 201, I=SA, 1=305	
H = 1+8+ - 5x5x2x3x = 15veo 1 - 15 KT	
130003 - 15 Kd	2