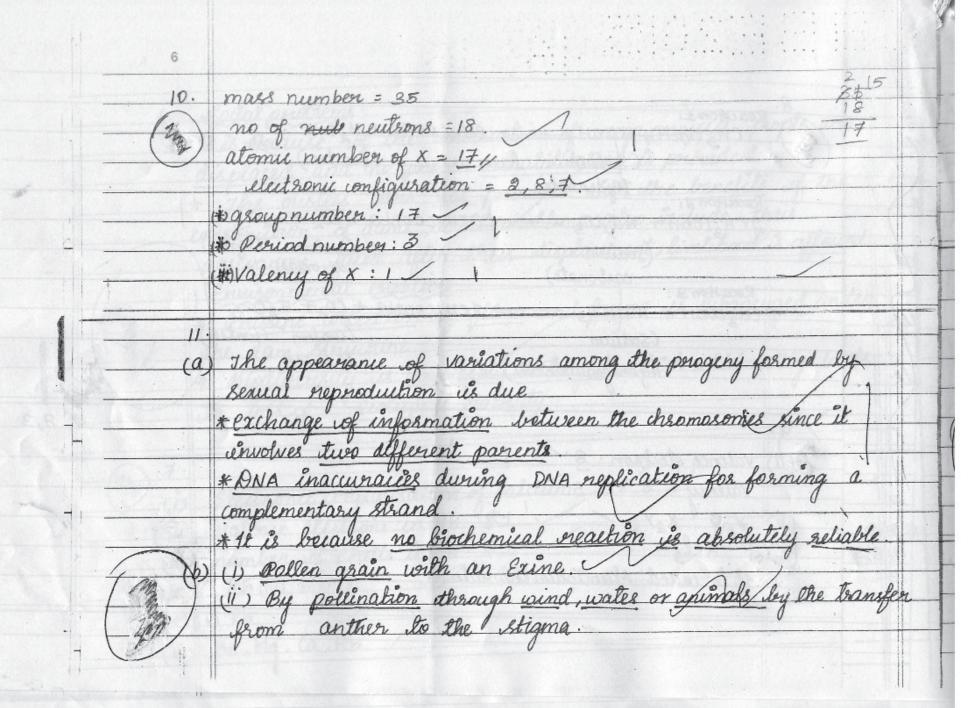
केन्द्रीय माध्यमिक शिक्षा बोर्ड दिल्ली माध्यमिक स्कूल गरीक्षा (कक्षा दसवीं) परीक्षार्थी प्रवेश- पत्र के अनुसार भरे .. SCIENCE तिषय कोड Subject Code : \_\_ O.B.b. परीक्षा का दिन एवं तिथि Day & Date of the Examination : WE DNESDAY . 02 . 03.2016 उत्तर देने का माध्यम Medium of answering the paper : ENGILTSH प्रश्न पन के स्थार लिखे Code Number Set Number कोड को दर्शाए Write code No as written on the top of the question paper 31/3 0 2 6 0 अतिरिक्त उत्तर-पुरितका (ओ) की संख्या No. of supplementary answer-book(s) used विकलांग व्यक्तिः हों / नहीं NO Person with Disabilities: Yes / No किसी शारीरिक अक्षमता से प्रमावित हो तो संबंधित वर्ग में 🗸 का निशान लगाएँ। If physically challenged, tick the category D H S चेत प्र B = दृष्टिहीन, D = मूक व बांधर, H = शारीरिक रूप से विकलांग, S = स्पास्टिक C = डिस्तेविसक, A = ऑटिस्टिक to the B = Visually Impaired, D = Hearing Impaired, H = Physically Challanged S = Spastic, C = Dyslexic, A = Autistic क्या लेखन - लिपिक उपलब्ध करवाया गया : हाँ / नहीं Whether writer provided: वन आ यदि दृष्टिहीन हैं तो उपयोग में लाए गये सोफ्टवैयर का नाम : If Visually challenged, name of software used e har agai \*एक खाने में एक अश्वर लिखें। नाम के प्रत्येक भाग के बीच एक खाना रिक्त छोड़ दें। यदि परीक्षार्थी का नान 24 अक्षरों से अधिक है, तो केवल नाम के प्रथम 24 अक्षर ही लिखें। Each letter be written in one box and one box be left blank between each part of the name. In case Candidate's Name exceeds 24 letters, write first 24 letters. नांच १ ग्रेशन ok ad 7236200 no qu कार्यालय उपयोग के लिए 086/01512 Space for office use

1		3 .
4	Speed of light in air = $\frac{4}{5}$ Speed of light in water 3 $\frac{2.25}{4.59}$	
	10	
	$\frac{3 \times 10^8}{\text{Speed of light in water}} = \frac{4}{3}$ $\frac{9 \times 10^8}{4} = \text{Speed of light in water}$	
esono		
	= 2.25 × 108 m/s -> speed of light in unles.	
ite ?	5. The four stakeholders are namely; * the people who live in and around the forest by seeking liveli	road
17	Isom Jonest peroduits etc. i.e., habitants of forest.	
	by negulating the actions in forest by outsiders.	200
	Pidical	7
	* The wild life conservationasts and enthusiasts who wants to prestine collection of flora and farma.	eserve
		- 42Ah

Social problems: Sleetronic configurat (vi) Be, Mq, Ca, Rb.

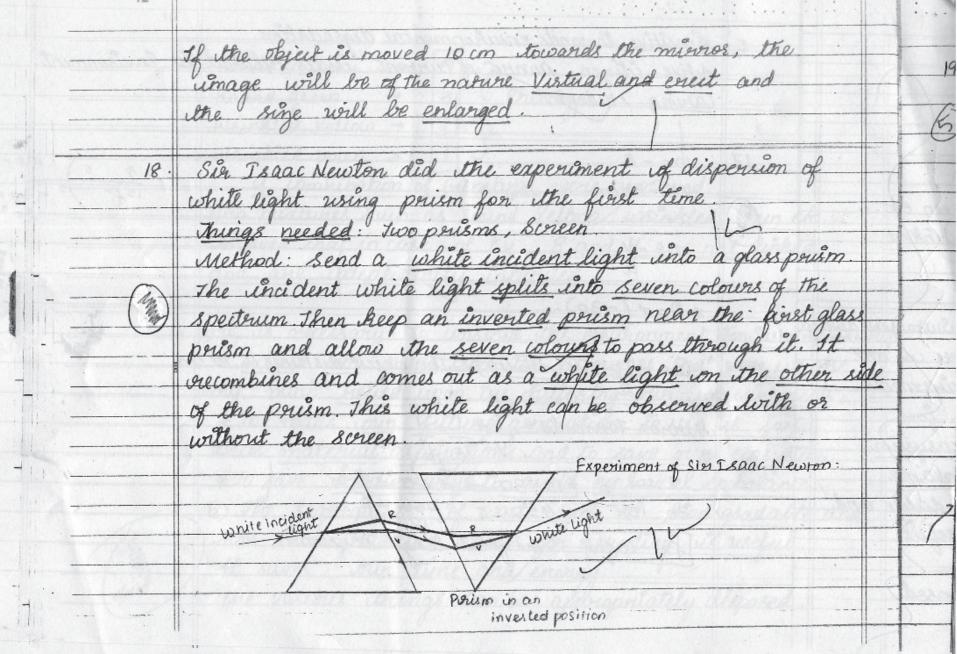


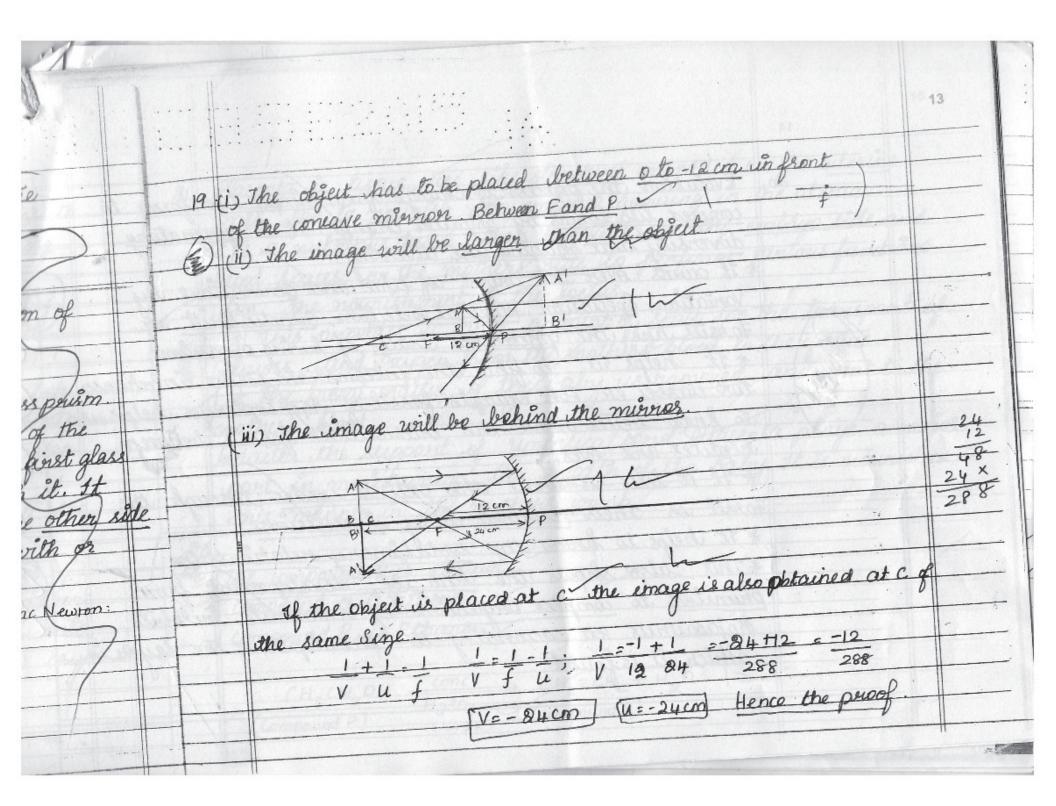
(111) C is the pollen tube that carries the male gamete from Stigma through style to the embryo sae to fertilise with (IV) After fertilisation is over, zygote to formed 12. The creation of new individuals from the existing individuals on individual for the species to survive is called neproduction The consistency of the DNA is maintained inonder to organice Similar kind of organisms with some body design for to fit to a particular siche Thus, reproduction stability tof the population of species population sing, that makes us to notice the particular ning y retiable July differentiated on multicellular organisms has the ability to the transfer

able to reproduce This is an asexual mode of reproduction. This also takes place in Planaria. 14. Evolution and classification are interlinked \* classification is done according to ancester in the first a cousin us related when the brother and a sister are considered So, classification tells about the organisms from the cell

level till in whether the organisms are vertebrates on invertebrates seperate an This comparison reveals that evolution and classification goes hand in ragnisms hand when we go back along this hierchy it is found that life originated from unanimate matters in the primitive age. rive ruse to ell organism Molecular Skylogery also tells about genetic affinities and and sequences this helps to organise a group with common ancestor and a rosat Super group with distant anceston. 15 Mendels dihybrid cross helps to know that traits are inherited atsotakes undependently. Various alleles eremain together in hybrid union and at the time of progery formation they assort independently. This was proved by the new misdures of plants that were ( wrinkled of Yellow) (sound green) Rryy (Round Yellow) - F. neidered 9:3:3:1 (Phenotype ratio) the cell

763.027 23°	Round Yellow - 9 9
	Round green -> 3 & Phenotype.
	Wrinkled Yellow -> 3
	Wrinkled green - 1)
4 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	9 combination of Gienetype were protivied.
SECRETARION A DE	New mintures such as sound Yellow, wrinkled green etc.
ALADA SSA	showed that in case of Ry, R and y were not linked
	and are independently inherited.
, 16.	* fulfill our needs from the resources that were we are
	* To make our fithere generation to use it for
	will material aspinations and to save our ecosystem.
	* To save brodiversity to avoid evological embalance.
	b) The segregation of waste such as biodegradable and
1/8/2	non-brodegradable wastes for nearling is useful.
- 3	It saves our time and energy.
Sino /	The various things can be appropriately disposed.





Evolution the process of change from simple life complex life forms by gradual change. It is generating diversity and shaping the diversity \* It occurs over the course of time and generations Variation, Speciation, Natural Selection; Genetic drift Fossils are the preserved traces of living organisms \* It helps us to find the intermediate for to know better about the reptiles and Aves \* It it tells us about the extinct Fossil or their retained body imperessions \* It helps to know the evolutionary relationship primitive to complex organisms. eg. v etc. according to

		15
opme to	21 Placenta is tissue tisc like structure embedded on the uterine	this
ating	wall for to nowish the embryo growing in the uterus.	
	It is a nutritive tiese that has ville on the embryo side on	rd
? log)	Island spaces on the mother's side to perform various function	no
etc.	( ) for the nourish ment of the foetus.	
ems.	* This perovides a large amount of small for the transport	Lof
inbehveen	In Colucose and oxygen from the mother's blood to the feetus.	0.
hetps us	I was future of they ordery us removed and sent to	the
etween	mother's blood.	29000
	* with the support of umbilical word, Placenta plays a market in maintaining the health of the baby. It is nourish this manner in the mother's womb.	ajor
sh the	part in maintaining the health of the baby. It is nourist	red in
	this manner in the mother's womb.	ν
ns V		
from	The compound P is ethanol.	Thus.
eloberte.	compound a is Ethene 12	
2 layer in	Compound R is Ethane	
1		
	$\begin{array}{c c} \begin{array}{c c} CH_3CH_2OH & \underline{conc.} & CH_2=CH_2+H_2O & 1\\ \hline \end{array} \\ \hline \begin{array}{c c} (Compound P) & H_2SO_4 & (Compound B) \end{array}$	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	A CONTROL OF THE PARTY OF THE P	

Addition: (compound a) combustion : 2 (02 + 3 H2 0 x Heat and Light. C2+6+02-(compound R) The compounds P, Q, R are Ethanol, Ethene and Ethane respectively. The refraction of light nays when it passes through the atmosphere bend towards the normal and reaches us This atmosphere in phenomena of refraction in the atmosphere is called atmospheric refraction. (a) Twinkling of Stars: The starlight on entering the atmosphere undergoes reforaction completely and continuously. It bend towards the normal. Since, the atmosphere as not stationary, the apparant position of Stan changes It appears slightly higher up. The amount of starlight that enters

eye fluctuates So, the : star flickers and causes the twinkling effect So, the star appears to be twinkling and this because of the atmospheric sufraction. Mapparent position of stan original position of Star rane b) Advanced sureuse and delayed Sunset: Survive and sunset is actually the crossing of horizon by the sun. The advanced survise and delayed survet is due through the to almospheric orefraction. The difference between the artial aches as survise and apparent survise is two minutes. Likewise the n the atmosphere difference between the actual sunset and apparent sunset is two minutes. The flattening of sun's disc is also due to this e undergoes phenomena. APPARENT SUNSET (ADVANCED) SUNSET ( DELAVED) towards the DESERVER SUN DURING SON DURING SUNSET

18		
24		
(a)	The distance between the principal four and the optical centres of	
(4)	the concave lens or diverging lens is called the focal length of	, ,
The state of the s	diverging lens.	
(b)	$ \begin{cases} f = -30 \text{ cm}. \\ \text{M} \cdot \text{h} = \text{bcm}. \end{cases} $	4-
14	V=-15cm. u=? h'=?	
7	Lens formula:	
eary to they	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
3-3600	Vu f u f V V	
Dr. N. S. P	-1-1=-1 $-1=-1-(-1)15 \overline{u} \overline{30} \overline{u} \overline{30} (15)$	G
	15 U 30 U 30 (15).	
	$-\underline{L} = -\underline{L} + \underline{L}$	
alle-2002 to	u 30 15	
100	$-\frac{1}{1} = -15 + 30$	3 (33)
	1 - 1 = 1	
	-1 = 18 1 u 450 30	M
	-u=30	
	[u=-30 cm] The object distance is -30 cm.	

. 11

20		1
	SECTION -B.	-
25.	(d) Radicle, cotyledon, Plumule.	
	(a) carrot and Radish.	
	a) /m, /A and /P.	1
	(a) /i is more than /a, but nearly equal to Le	
	6) inverted and diminished.	
1 30	a) lens slightly towards the screen.	
21	(c) caster oil and sodium hydroxide.	1
(30)	(c) There is no change in the blue litmus paper and the ned	1
( 300	litmus paper turns blue.	
1 00 00	(d) calcium chloride, magnesium chloride.	
33.34.	yes ameld resolvably observe the nontrinhence called bad.	de
89	He could probably observe the proturbence called bud.	
	bud bud	CE TOTAL
	nucleus of Yeast \.	The same of
(Arm)	yeast 1	-
- 319	After the protuberance comes out they form colony of chain of	
- Yar	brids.	1
	ingan of Bods.	-
		=
		-