

Agri Nagan

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2018-

भाग-2

M.Sc. Internal



चौधरी चरण सिंह विश्वविद्यालय, मेरठ Ch. Charan Singh University, Meerut

निम्नलिखित विवरण परीक्षार्थी द्वारा स्वयं भरा जाए (To be filled by the Examinee)

परीक्षा का नाम (Name of Exam) *M.Sc Zoology* वर्ष 20 *19-20* भाग/सेमेस्टर (Part / Semester) *II sem*

विषय (Subject) *Zoology* प्रश्न-पत्र/पाठ्यक्रम (Paper / Course) *II* पेपर कोड नं. (Paper Code No.) *H-*

परीक्षा का दिन (Day of Examination) *Thursday* दिनांक (Date) *28-3-19*

प्राप्तांक एवं पूर्णांक परीक्षकों द्वारा भरे जायें

पूर्णांक (Max. Marks)

प्रश्नों की क्रम संख्या	a/I	b/II	c/III	d/IV	e/V	f/VI	g/VII	h/VIII	i/IX	j/X	योग
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14											

प्राप्तांक

(शब्दों में)	अंकों में
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चौधरी चरण सिंह विश्वविद्यालय, मेरठ

R

आवश्यक विवरणों के लिए पृष्ठ भाग देखें

Date Stamp to be affixed here

परीक्षा का नाम (Name of Exam) *M.Sc Zoology* भाग/सेमेस्टर (Part / Semester) *II sem*

विषय (Subject) *Zoology* दिनांक (Date) *28/3/19*

परीक्षार्थी का अनुक्रमांक (Roll Number)

उत्तर-पुस्तिका क्रमांक

18P0172003

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KM-I-01-

कालेज कोड

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(परीक्षार्थी की श्रेणी)

संस्थागत

व्यक्तिगत

बैक पेपर

अंक सुधार

भूतपूर्व

एकल विषय

नामांकन संख्या (Enrollment Number)

पेपर कोड

M 15530812

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H-1067

परीक्षार्थी का पूरा नाम

Geetapal

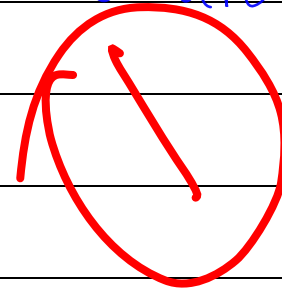
कक्ष निरीक्षक का नाम

Section-A

(2) Termination genetic code :- Termination codon is starting in a protein chain (AUG).

- (AUG) is a methionine.
- Termination genetic code is a amino acid sequence
- Termination genetic code is a three types of code.

UAA	→	Ochar
UGA	→	Amber
UAG	→	Opal



(3) GISH → (Genomic in situ hybridization)

- Genomic in situ hybridization is technology.
- It characterization in polyploidy, and Allopolyploidy or polyploidy and hybrid.
- And formed a process of hybrid autopolyploidy.

(4) Use of PCR →

PCR is a polymerase chain reaction.

- It discovered the (Kary Mullis 1985).
- This use is DNA polymerase chain reaction.

(5) Co-dominance → A gene is by two character dominance.

Ex: - Blood grouping, ~~Drosophilla~~, ~~haemophilia~~ etc.

(1) Mandel selected pea plant experiments of the (~~Pinus Sativum~~) is easily experiments of his plant and another plant is not experiments.
 that is most of Important plant is pea plant and is not another plants.
 then,

Mandel selected pea plant for his experiment.

Section-c

(ii) Genetic disorder →

Ans Summary →

Sex determination:

(i)

(a)

(b)

Klinefelter syndrome ✓

Turner's syndrome ✓

(ii)

(a)

(b)

(c)

(d)

Autosomal disorder ✓

Down syndrome ✓

Patau's syndrome

Edward's syndrome ✓

Chi-chau (cat syndrome) ✓

Single gene

(1) Sex determination →

(i) Klinefelter's syndrome :- $(44 + XX + Y)$, $(46 + XXX + Y)$

→ All syndrome are infertile syndrome.
 → All syndrome are mainly retarded.
 → Started Intelligence.

→ Short life sperm.

→ Mostly Klinefelter's syndrome are best part of the life.

⇒ Super male ✓
 ⇒ Super female ✓

(ii) Turner syndrome \rightarrow $(45 + XXX + XY)$ $(48 + XXXY)$

\Rightarrow Turner syndrome are mainly retired.

\Rightarrow This syndrome are Infertile

\Rightarrow Short life span.

(2) Autosomal disorders -

(i) Down syndrome \rightarrow This syndrome are very short life of span.

\Rightarrow All syndrome are Infertile.

\Rightarrow Down syndrome are mainly retired and most of the disorders.

⇒ 21 Group of trisomy.

(ii) Patau's syndrome →

→ All syndrome are infertile.

→ All syndrome are mostly retarded.

→ Short life span.

(iii) Edwards's syndrome →

- All syndrome are mostly retarded.

- All syndrome are infertile.

(iv) Chin^{or} Chau (cat fish syndrome):-

- ⇒ All syndrome are Infertile.
- ⇒ Short life sperm.
- ⇒ Mostly intelligence.
- ⇒ All syndrome are mainly retired.

3

(9) Applications of Genetic engineering:-

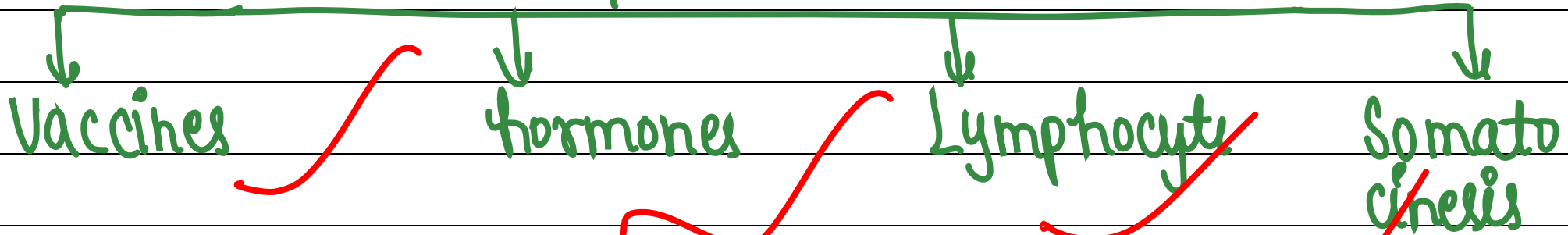
Ans Summary:-

(1) Applications of genetic engineering.

(2) Genetic engineering Definition.

(3) Applications of Agricultural

(4) Application of medicines

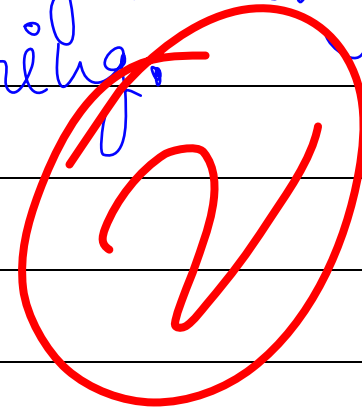


(5) Applications of energy production.

(1) Genetic engineering definition: Genetic engineering is a (DNA recombinant technology).

- Genetic engineering is vaccines, medicines and plants or agricultural part of the most life and energy production.

- It is a biotechnology of engineering is the part of genetic engineering.



Section B

(6) Criminal syndrome:-

⇒ Criminal syndrome is a (Super male) syndrome.

⇒ Super male syndrome are $44+XXHY$.

⇒ All syndrome are mainly retired.

⇒ All syndrome are Infertile.

⇒ Short life sperm.

⇒ Mainly syndrome are intelligence.

(7) Cytogenetic map :-

- Cytogenetic map is study of chromosomes.
- It is a part of genetics.
- It is numerical abnormalities and structural abnormalities.
- Numerical abnormalities is Aneuploidy is Trisomy ($2n+1$) and tetrasomy ($2n+2$)
- It is a most part of the Euploidy is monoidy and diploid and polyploid.

monoidy $\rightarrow (X)$

diploidy $\rightarrow (2X)$

polyploidy $\rightarrow (3X, 4X, 5X \text{ etc.})$

- Hyperloidy is monosomy, nullisomy and Hypoloidy is trisomy and tetrasomy.

trisomy $\rightarrow (2n-1)$

tetrasomy $\rightarrow (2n-2)$

