

M.Sc. ANATOMY DEGREE EXAMINATIONS
(For Candidates admitted from 2008-2009 regulations)
PAPER II – EMBRYOLOGY AND GENETICS

Q.P. Code: 281002

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

Pages (Max.)	Time (Max.)	Marks (Max.)
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1. Describe the development of placenta and the anomalies associated with it.
2. Describe the development of kidneys and the anomalies associated with it.

17	40 min.	20
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17	40 min.	20
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II. Write notes on :

1. Translocation.
2. Autosomal dominant inheritance.
3. Bilaminar germ disc.
4. Omphalocele.
5. Mutation.
6. Development of thyroid gland.
7. Somite.
8. Pedigree chart.
9. Neural crest cells.
10. Hardy Weinberg principle.

4	10 min.	6
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4	10 min.	6
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4	10 min.	6
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4	10 min.	6
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Time : Three Hours**Maximum : 100 marks****Answer ALL questions in the same order.****I. Elaborate on:**

	Pages	Time	Marks
	(Max.)	(Max.)	(Max.)

1. Describe in detail about the development of Heart.
Add a note on its development defects.

	17	40 min.	20
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2. Describe in detail about the development of Gut.
Add a note on omphalocele.

	17	40 min.	20
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II. Write Notes on:

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|------------------------------------|---|---------|---|
| 1. Mesonephric duct. | 4 | 10 min. | 6 |
| 2. Connecting stalk. | 4 | 10 min. | 6 |
| 3. Development of Diaphragm. | 4 | 10 min. | 6 |
| 4. Sex linked Inheritance. | 4 | 10 min. | 6 |
| 5. Karyotyping. | 4 | 10 min. | 6 |
| 6. Development of Thyroid gland. | 4 | 10 min. | 6 |
| 7. Mutation. | 4 | 10 min. | 6 |
| 8. Development of Pituitary Gland. | 4 | 10 min. | 6 |
| 9. Gene Therapy. | 4 | 10 min. | 6 |
| 10. Klinefelter Syndrome. | 4 | 10 min. | 6 |

[LD 1013]

OCTOBER 2013

Sub. Code: 1002

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Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Describe the structural abnormalities of chromosomes in detail along with examples in human.
2. Describe the development of kidney and its developmental anomalies by giving reasons.

II. Write notes on:

(10 x 6 = 60)

1. Recombinant DNA technology.
2. Development of neurocranium.
3. Development of tooth
4. Twinning
5. Mendel's law
6. Staining methods of chromosomes.
7. Genetic counselling
8. Control of embryonic development
9. Karyotyping
10. Development of portal vein.
