

2011

BMLT

5th Semester Paramedical Examination

CLINICAL ENDOCRINOLOGY & ANDROLOGY

PAPER—XIII (Unit-25)

Full Marks : 35

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Question No. 1 and any three from the rest.

- 1. Answer any five of the following : 5×1**
- (i) What are the causes of IDDM ?
 - (ii) What are the hormones of thyroid gland ?
 - (iii) What is Cushing Syndrome ?
 - (iv) What is impoteule ?
 - (v) Mention the cut off values of obesity in adult male and female.
 - (vi) Why body temperature rises during ovulation period ?
 - (vii) What is amenorrhoea ?
 - (viii) State the significance of pituitary adrenal axis.

(Turn Over)

2011

2. (a) State the principle of ELISA.
(b) Write the protocol of ELISA you have studied.
(c) Mention the significance of this test in Bio-medical laboratory science. **2+5+3**
3. (a) Which endocrine gland is named as 'master of endocrine orchestra' and why?
(b) What is GrRF?
(c) What will happen when GTH hypersensitivity develops? **(1+3)+2+4**
4. (a) Write the normal value of sperm count in semen.
(b) Describe the technique for sperm count in semen.
(c) Mention the sugar present in sperm fluid. State the process of hormonal regulation spermatogenesis. **2+3+(1+4)**
5. (a) Classify diabetes with reasons.
(b) State the role of hormones in the management of diabetes-insipidus.
(c) What are the important antihypertensive drugs? **4+4+2**
6. (a) What are the mechanism underlying the development of Ketoacidosis?
(b) What the laboratory diagnosis of this condition.
(c) Mention the significance of studying clinical endocrinology. **4+3+3**
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2012

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Illustrate the answers wherever necessary.

Answer Question No. 1 and any three from the rest.

1. Answer any five of the following :

5x1

- (i) Write the full form of ICSI.
- (ii) Write the normal sperm count.
- (iii) Write the full form of GIFT.
- (iv) Write the example of Positive feed back system.
- (v) Write the full form of NIDDM.
- (vi) What do you mean by teratospermia?
- (vii) Write the source of C-peptide.
- (viii) What is spermiogenesis? *maturaton of sperm (final stage of spermatogenesis)*

function of Sertoli cell:

- (i) stimulate the mitosis & meiosis division in *spermatogenesis.*
- (ii) Secret ABP (and regulate testosterone level in testis)
- (iii) They absorb unnecessary cellular organelles.
- (iv) Have receptors for FSH & LH

(Turn Over)

function of acrosome:

- i) To provide mobility to the sperm.
- ii) Provide energy to locomotion.
- (iii) To ~~allow~~ penetrate into the egg
- iv) To promote meiosis followed fertilization.

V.K.S.

10m Ghu

2012

2. (a) Write the major causes of male infertility.
(b) State the fundamental steps adopted in IUI. 5+5
3. (a) State the major role of insulin on blood glucose regulation.
(b) Write the mechanism of Goitre development. 5+5
4. (a) What do you mean by interassay and intraassay variation?
(b) Why ELISA is preferred over RIA in endocrine laboratory?
(c) What is Cross reaction? (2+2)+4+2
5. (a) State the major steps of Spermatogenesis.
(b) Write in brief about the role of testosterone and thyroxine on Spermatogenesis. 5+(2 $\frac{1}{2}$ +2 $\frac{1}{2}$)
6. (a) State the classification of sperms on their morphology.
(b) Write the importance of Sperm motility in fertilization.
(c) Write the normal level of fructose in seminal plasma.
(d) What do you mean by coagulation of Semen? 4+3+1+2

V.K.S.
Anurag Kumar Manglam

Total Pages—2

C/13/P.M./BMLT/8th Seme./13(U-25)

2013

BMLT

8th Semester Paramedical Examination
ENDOCRINOLOGY & ANDROLOGY

PAPER—XIII (Unit-25)

Full Marks : 35

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three questions from the rest.

1. Answer any five of the following :

5×1

- What do you mean by solid phase immuno assay?
 - What is amenorrhoea?
 - Write the names of any two goitreogenic substances.
 - Define infertility.
 - Write the types of diabetes insipidus.
 - Write the full form of IVF and SUZI.
 - Write the name of any one enzyme used for labeling purpose in ELISA.
 - What do you mean by oligospermia?
2. (a) State the major causes of female infertility. 4
(b) Write the principle of ICSI. 3
(c) What do you mean by artificial insemination? 3

1(b) amenorrhoea : → absence of menstrual cycle period in women of reproductive stage. amenorrhoea seen during pregnancy & breast feeding.
Two types : → primary & secondary amenorrhoea.

1(a) Solid phase immunoassay : → It is a type of immunoassay in which the Ag or serum is bound to a solid surface, such as a microplate wall or the side of a tube.

© Goitrogenic substance : → substance that suppresses the function of the thyroid gland and cause goiter. eg. →

2(c) Artificial insemination : → AI is the process in which male semen is introduced to female's vagina or oviduct. In this women attain pregnancy not involving sexual intercourse.

2013

5th S

- 3. (a) State the operation of pituitary-thyroid axis.
- (b) Write the activity of the axis in goitre patient.
- (c) What are the hormonal causes of obesity?
- (d) What do you mean by secondary hypertension?
3+2+3+2

- 4. (a) State the principle of s-ELISA.
- (b) What do you mean by intra assay and inter assay variation?
- (c) Why ELISA is preferred over RIA?
3+4+3

- 5. (a) Write the process of spermdilution in connection with sperm count.
- (b) State the procedure of spermcount by manual method.
- (c) Write the principle of sperm motility assessment.
- (d) What do you mean by oligo spermia and azoospermia?
2+4+2+2

- 6. (a) Write the major causes of type-1 and type-2 diabetes mellitus.
- (b) What do you mean by renal and cranial type of diabetes insipidus?
- (c) Why infertility is noted in diabetes mellitus?
5+3+2

2014

BMLT

5th Semester Paramedical Examination

ENDOCRINOLOGY & ANDROLOGY

PAPER—XIII (Unit-25)

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Time : 2 Hours

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Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three questions from the rest.

1. Answer any five of the following : 5×1
- (a) What do you mean by endemic goitre ?
 - (b) Write the main difference between infertility and sterility.
 - (c) What do you mean by tetraspermia ?
 - (d) What do you mean by cross reaction in hormone assay ?
 - (e) Write the names of any two tracer element used for labelling purpose of hormone in RLA.
 - (f) What do you mean by antisperm antibody ?
 - (g) What do you mean by positive feedback process in endocrine system ?
 - (h) Write any one function of acrosome.

(Turn Over)

- 2014
- 2.
- Describe briefly the pituitary ovarian axis for controlling ovarian activity.
 - Write the causes of female infertility. 4+4+2
 - What is cranial diabetes insipidus.
- 3.
- Write the major classification of sperm on the basis of morphology.
 - State the justification for the inclusion of chemical components in sperm diluent.
 - Describe in brief the process (manual) of sperm motility. 3+2+5
- 4.
- Write the principle of c-ELISA.
 - Describe in brief the steps adopted for hormones assay used c-ELISA.
 - State the features of c-ELISA. 2+5+3
- 5.
- State thyroid profile in blood of a goitre patient in general.
 - Write the thyroid profile in blood of a nongenetical obese person.
 - State the hormonal causes of diabetes insipidus.
 - What do you mean by primary hypertension? 2+2+4+2
- 6.
- State the role of testosterone and thyroxine on spermatogenesis.
 - Write the principle of fructose estimation in semen.
 - What are the conditions when IUI is adopted in ART. 4+2+4

2. (a) Write the major causes of NIDDM.
(b) Why male infertility is noted in diabetes mellitus?
(c) Why goitre is noted in hilly areas? 3+4+3
3. (a) Write the composition of sperm diluent.
(b) Write the formula of sperm count using Neubauer's Chamber.
(c) State the precautions those should be followed for sperm count accurately using Neubauer's Chamber. 3+2+5
4. (a) Write basic differences between e-ELISA and s-ELISA.
(b) State the general protocol of hormone assay following s-ELISA.
(c) What do you mean by cross reaction in hormone assay using ELISA technique? 3+5+2
5. (a) State the features those should be fulfilled for conduction IUI.
(b) Write primary/fundamental concept of IUI.
(c) State the major causes of male infertility. 3+5+2
6. (a) What do you mean by glucose tolerance test?
(b) State the significance of C-peptide assay of plasma.
(c) Define MRDD.
(d) What is safe period. 3+3+2+2

2014

BMLT

5th Semester Paramedical Examination
CLINICAL ENDOCRINOLOGY & ANDROLOGY

PAPER—XIII (Unit-25)

Full Marks : 35

Time : 2 Hours

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Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three questions from the rest.

1. Answer any five of the following : 5×1
- (a) Write the full forms of IUI and IVF.
 - (b) What do you mean by solid phase assay ?
 - (c) Write the full form of CASA.
 - (d) What do you mean by renal diabetes insipidus ?
 - (e) Write the names of any two types of sperm motility.
 - (f) What do you mean by intra assay variation ?
 - (g) Write the name of any two hormones which are synthesized in adipose tissue.
 - (h) What do you mean by haemospermia ?

(Turn Over)

OLD**2015****BMLT****5th Semester Paramedical Examination****CLINICAL ENDOCRINOLOGY & ANDROLOGY****PAPER—XIII (Unit-25)***Full Marks : 35**Time : 2 Hours*

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three questions from the rest.

1. Answer any five of the following : 5×1

- (a) Write the full forms of ICSI.
- (b) What is positive feed back system in endocrinology?
- (c) What do you mean by hot and cold antigen?
- (d) What is infertility?
- (e) What do you mean by liquid phase immunoassay?
- (f) What is spermiogenesis?
- (g) Write any two abnormal morphology of Sperm.
- (h) What is IDDM?

(Turn Over)

2015

2. (a) State the major causes of female infertility.

(b) Write the major steps adopted in IVF briefly.

4+6

3. (a) Why obesity results infertility?

(b) Write the major causes of IDDM.

(c) What is cross reaction in hormone assay?

3+4+3

4. (a) Write the test for testing of Sperm Viability.

(b) Describe in brief about the role of thyroxine on spermatogenesis.

5+5

5. (a) Describe briefly the technique of sperm count in semen.

(b) Discuss the conditions when IUI is mandatory in ART.

6+4

6. (a) Discuss the importance of glucose memory test.

(b) Write the fundamental steps adopted in superovulation.

5+5

10 1:5
~~200~~ 40/8 10
>40 2/20 20

BMLT 5th Semester Examination, 2016

**CLINICAL ENDOCRINOLOGY
AND ANDROLOGY**

PAPER – XII (U-25)

Full Marks : 40

Time : 2 hours

Answer Q. No. 1 and any three of the following

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

UNIT – 25

1. Answer any five of the following : 2 × 5

(a) Write the full form IVF and IUI.

(b) What do you mean by glycated haemoglobin ?

(Turn Over)

~~(c)~~ What do you mean by solid phase and liquid phase immunoassay.

~~(d)~~ Write the full form of ELISA and RIA.

(e) What do you mean by feedback control of endocrine system ?

(f) Write the conversion of pre-proinsulin to pro-insulin.

~~(g)~~ Define teratosperm.

~~(h)~~ What is intraassay variation ?

2. ~~(a)~~ Write the major steps followed in IUI.

(b) What are the major causes of male infertility ? 5 + 5

3. (a) State the major functions of insulin on carbohydrate metabolism.

(b) What do you mean by primary and secondary hypothyroidism ?

(c) What is negative feedback system ? 4 + 4 + 2

(3)

liquid

4. (a) What do you mean by intraassay and interassay variation in hormone assay ?
- (b) State the fundamental steps adopted for S-ELISA of any hormone assay. 3 + 7
5. ~~(a)~~ Write the role of testosterone and insulin on spermatogenesis.
- ~~(b)~~ What do you mean by spermiogenesis ?
- ~~(c)~~ Classify sperms on the basis of morphology. (3 + 2) + 2 + 3
6. ~~(a)~~ What do you mean by primary and secondary hypertension ?
- ~~(b)~~ What are the causes of goitre ?
- ~~(c)~~ What is renal diabetes insepidus ? 3 + 4 + 3
-

*rebyruya***NEW****2017****BMLT****5th Semester Paramedical Examination****CLINICAL ENDOCRINOLOGY AND ANDROLOGY****PAPER—XIII (Unit-25)***Full Marks : 40**Time : 2 Hours*

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three from the rest.

1. Answer any five questions : 5×2
- (a) How do you calculate cut off point in ELISA test ?
 - ✓ (b) Write the full focus of IUCD and GIFT.
 - ✓ (c) What do you mean by oligospermia ?

(Turn Over)

- (d) Write the name of any two enzymes used as conjugate preparation in ELISA ?
- (e) What is pancreatic C peptide ?
- (f) What is gestational diabetes ?
- (g) What is Hashimoto's thyroiditis ?
- (h) What is the significance of acrosomal head ?
2. (a) State the major causes of female infertility ?
- (b) Write briefly about ICSI ?
- (c) Write the role of oestrogen in female reproductive system ? 4+3+3
3. (a) Write the major causes of Type 1 and Type 2 diabetes Mellitus ?
- (b) What are the complications of uncontrolled diabetes Mellitus ?
- (c) What is 'diabetic foot' ? 5+3+2
4. (a) Briefly describe the function of pituitary adrenal axis.
- (b) Write the names of hormones secreted by thyroid gland.

What do you mean by cro

(d) Discuss the diagnosis of hypothyroidism.

(a) What is th

(b) Draw th

(c) Write tech

6. Write

(a

nd as conjuga

- What do you mean by cross reaction in ELISA test.
- d) Discuss the diagnostic criteria of different types of hypothyroidism. 3+2+2+3
5. (a) What is the principle of Sandwich ELISA ?
- (b) Draw the standard curves of C-ELISA and S-ELISA.
- (c) Write about the protocol of TSH array by ELISA techniques. 3+3+4
6. Write short notes on : 4×2½
- (a) Essential hypertension
- (b) Leptin
- (c) Cushing syndrome.
- (d) Diabetic Ketoacidosis.
-

BMLT 5th Semester Examination, 2018
CLINICAL ENDOCRINOLOGY AND
ANDROLOGY

PAPER – XIII (U-25)

Full Marks : 40

Time : 2 hours

Answer Q.No.1 and any three from the rest

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their
own words as far as practicable

Illustrate the answers wherever necessary

1. Answer any *five* questions : 2 × 5
- (a) What is cross reaction in ELISA Test ?
- (b) Write a positive feedback in endocrine system with example.
- (c) What is teratospermia ?

(Turn Over)

(2)

- (d) Write any two cause of goitre.
- (e) Write the full forms of IUI and SUZI.
- (f) Define infertility.
- (g) Write the names of any two radioactive element used in RIA.
- (h) What is primary hypertension ?
2. (a) Write the major causes of male infertility.
- (b) Why does obesity lead to infertility ? 5 + 5
3. (a) Write the steps adopted in IUI.
- (b) State the role of insulin on blood sugar regulation. 6 + 4
4. (a) Discuss the spermatogenesis process in brief.
- (b) State the role of testosterone and thyroxine on spermatogenesis. 5 + (3 + 2)

(3)

7 (a) Write the composition of sperm diluent fluid.

9 (b) Describe the process of sperm count using WBC counter.

6. Write short notes on :

(i) Sperm viability test

(ii) Bronze diabetes

(iii) Secondary hyperthyroidism

(iv) RIA.

3 + 7

$2\frac{1}{2} \times 4$

2 x 5

BMLT/VS/CE&A/XIII(U-25)/19

Subzonal
Insemination

(Turn Over)

MV-450

BMLT 5th Semester Examination, 2019

**CLINICAL ENDOCRINOLOGY AND
ANDROLOGY**

PAPER – XIII

Full Marks : 40

Time : 2 hours

Answer Q.No. 1 and any three from the rest

The figures in the right-hand margin indicate marks

*Candidates are required to give their answers in their
own words as far as practicable*

Illustrate the answers wherever necessary

U – XXV

1. Answer any five questions : 2 × 5

(a) What is intraassay variation ? ①

(b) Define oligospermia.

(Turn Over)

(2)

(c) Write the full forms of IVF and ICSI.

(d) What is C-peptide?

(e) Write the difference between cranial and renal diabetes insipidus.

(f) What do you mean by $FT_3 \times FT_4$.

(g) What is renal hypertension?

(h) Write the names of any two enzymes used for antibody labelling in ELISA.

2. (a) Write the causes of type-1 diabetes mellitus.

(b) State, how goitre is developed.

(c) What is primary hypothyroidism? 4 + 3 + 3

3. (a) Write the structure of mature sperm with diagram.

(b) "Glucagon is diabetogenic hormone" – Justify the statement.

(c) Write in short about spermiogenesis. 4 + 4 + 2

(3)

(a) Write the principle of IVF.

(b) Write the major steps of IVF.

(c) State the role of insulin on spermatogenesis.

2 + 5 + 3

5. (a) State the different feedback systems operated between pituitary and target endocrine gland.

(b) Write the major causes of male infertility.

6 + 4

6. (a) Write the principle of the method for assessment of 'Acid Phosphatase' in in semen.

(b) State the description of acid phosphatase activity assessment.

3 + 7

Total Pages—3

BMLT/5th Sem/CE & A/
P-XIII (U-XXV)/23

2022

BMLT 5th Semester Examination
Clinical Endocrinology and Andrology

PAPER — XIII

Full Marks : 40

Time : 2 hours

The figures in the right-hand margin indicate marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Illustrate the answers wherever necessary.

Answer Q. No. **1** and *any three* from the rest.

U — XXV

1. Answer *any five* of the following questions :

2×5=10

(a) Write the full forms of IUI and IVF.

(b) What is positive feedback system in endocrinology?

(2)

(c) What is intra-assay variation?

(d) What is pancreatic C-peptide?

✓(e) Write any two causes of goitre.

(f) Write the full form of CASA.

✓(g) What is spermiogenesis?

✓(h) Write the full form of NIDDM.

2. ✓(a) Write the major causes of female infertility.

(b) What are the conditions when IUI is adopted in ART? 5+5=10

3. ✓(a) Write the test for sperm viability.

(b) Describe in brief about the role of thyroxine on spermatogenesis. 5+5=10

4. (a) What do you mean by primary and secondary hypothyroidism?

✓(b) State the major function of insulin on carbohydrate metabolism.

(c) What is negative feedback system?

4+4+2=10

(3)

5. (a) What is the principle of sandwich ELISA?
(b) Draw the standard curves of C-ELISA and S-ELISA.
(c) Write about the protocol of TSH assay by ELISA technique. $3+3+4=10$
6. ~~(a)~~ What are the causes of goitre?
~~(b)~~ What is renal diabetes insipidus?
~~(c)~~ What do you mean by primary and secondary hypertension? $4+3+3=10$

★ ★ ★