COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate degree MSc of Obstetrics and Gynecology /GYN500
(2) Department offering the programme:	Obstetrics and Gynecology
(3) Department responsible for teaching the course:	**Physiology department**
(4) Part of the programme:	**First part**
(5) Date of approval by the Department`s council	27/7/2016
(6) Date of last approval of programme specification by Faculty council	2016
(7) Course title:	**Physiology and endocrinology of reproduction**
(8) Course code:	**GYN 503**
(9) Total teaching hours:	11.25 hours
(10) Credit hours	3/4 hours

(B) Professional information

(1) Course Aims:

To provide the candidates with the basic knowledge about the basic physiology related to obstetric and gynecology

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1. **Summarize Circulation regarding** : Heart rate and its regulation, Arterial blood pressure and its regulation, Cardiac output, Capillary circulation and edema, Hemorrhage, Shock and its compensatory mechanisms

A2. **Identify Blood** related topics regarding:
* RBCs: Factors needed for formation, Count, HB functions, Anaemias
* Hemostatic mechanisms : Vasoconstriction, Platelet plug, Coagulation mechanism and its abnormalities, Blood group and RH factor

A3. **Review GIT** problems:Vomiting : causes and mechanism

A4. **Identify Endocrine and Metabolism related problems :** Pituitary , hypothalamic, regulation , Growth and puberty , Thyroid: Disorders , Parathyroid and Ca ++ metabolism, Glucose homeostasis, Suprarenal, Regulation of body temperature and fever

A5. **Discuss Respiration related problems:** Control of breathing , Hypoxia and cyanosis

A6. **Describe C.N.S. related problems:** Pain :Deep and visceral pain, Referred pain and its mechanisms, Control of pain , Autonomic receptors chemical transmitters

A7. **Reviw Reproduction related problems**: Reproductive system, Pregnancy, Parturition , Lactation, Fetal circulation

B- Intellectual skills

B1. Integrate basic physiology with clinical care of obstetrics & gynecology

B 2.Analyze and prioritize physiological problems related to obstetrics & gynecology.

B 3.Evaluate physiological information objectively, recognizing its limitations in obstetrics & gynecology.

B 4. Use personal judgment for analytical and critical problem solving of physiological problems related to obstetrics & gynecology .

B 5. Construct appropriate management strategies of physiological problems related to obstetrics & gynecology .
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B 6. Retrieve relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence.

Course content:

Subjects	Lectures 1h/w	Clinica	Laboratory	Field	Total Teaching Hours
Circulation: - Heart rate and its regulation - Arterial blood pressure and its regulation - Cardiac output - Capillary circulation and edema - Hemorrhage - Shock and its compensatory mechanisms	2				11.25 hours
Blood : * RBCs: - Factors needed for formation - Count - HB functions - Anaemias * Hemostatic mechanisms : - Vasoconstriction - Platelet plug - Coagulation mechanism and its abnormalities *Blood group and RH factor	2				
GIT :Vomiting : causes and mechanism	1				
Endocrine and Metabolism : * Pituitary – hypothalamic – regulation * Growth and puberty * Thyroid : - Disorders * Parathyroid and Ca ++ metabolism * Glucose homeostasis *Suprarenal * Regulation of body temperature and fever	2.25				
Respiration : * Control of breathing * Hypoxia and cyanosis	1				

C.N.S.: * Pain : - Deep and visceral pain - Referred pain and its mechanisms - Control of pain * Autonomic receptors chemical transmitters	1				
Reproduction : *Reproductive system *Pregnancy *Parturition *Lactation *Fetal circulation	2				

(3) Teaching methods:

- **4.1: Lectures**

(4) Assessment methods:

Percentage of each Assessment to the total mark:

Written exam : 96 marks

MCQ : 24 marks

Oral exam : 80 marks

Subjects	program ILOs												
	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	B6
Circulation: - Heart rate and its regulation - Arterial blood pressure and its regulation - Cardiac output - Capillary circulation and edema - Hemorrhage - Shock and its compensatory mechanisms	x							x	x	x	x	x	x
Blood : * RBCs: - Factors needed for formation - Count - HB functions - Anaemias * Hemostatic mechanisms : - Vasoconstriction - Platelet plug - Coagulation mechanism and its abnormalities *Blood group and RH factor		x						x	x	x	x	x	x
GIT :Vomiting : causes and mechanism			x					x	x	x	x	x	x
Endocrine and Metabolism : * Pituitary – hypothalamic – regulation * Growth and puberty * Thyroid : - Disorders * Parathyroid and Ca ++ metabolism * Glucose homeostasis *Suprarenal * Regulation of body temperature and fever				x				x	x	x	x	x	x

Respiration : * Control of breathing * Hypoxia and cyanosis					x			x	x	x	x	x	x
C.N.S.: * Pain : - Deep and visceral pain - Referred pain and its mechanisms - Control of pain * Autonomic receptors chemical transmitters						x		x	x	x	x	x	x
Reproduction : *Reproductive system *Pregnancy *Parturition *Lactation *Fetal circulation							x	x	x	x	x	x	x

ILOs assessed by each method

Written exam : A1–A7, B1–B6

MCQ : A1– A7 , B1–B6

Oral : A1– A7, B1–B6,

Course coordinator:

Dr. Rafik Barakat
Dr. Sara Abdelaziz

Head of the department:

Prof. Nasser Allakany

Date : 7/2016