

## END TERM THEORY EXAMINATIONS; MAY-2019

<b>Program:</b>	<b>BMLT/BRIT/BOPT/DMLT/DOTT</b>	<b>Year:</b>	<b>2nd year</b>
<b>Course/Subject:</b>	<b>Environmental Science</b>	<b>Duration</b>	<b>03:00 Hrs.</b>
<b>Course/Subject Code:</b>	<b>05010206/ 05020206/ 05040213/ 0506201/ 05080201</b>	<b>Maximum Marks:</b>	<b>80</b>
<b>Roll No.:</b>		<b>Batch</b>	<b>2016</b>

**Instructions:-**

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

**Q.1 Answer all the following Questions: -**

**(10x2=20)**

- a) Ecosystem.
- b) Trophic Structure.
- c) Vermi-composting.
- d) Consumerism.
- e) Global warming.
- f) Hot spots of Biodiversity.
- g) Endemic species.
- h) Bio-magnification.
- i) Age structure.
- j) Decibel.

**Q.2 Answer Any Eight of the following Questions: -**

**(8x5=40)**

- a) Why there is need for public awareness regarding environment protection?
- b) What are ecological pyramids? Briefly explain types with suitable diagram?
- c) What are the harmful impacts of mining activities on environment?
- d) Explain the application of Sun as a source of renewable energy?
- e) What do you mean by Biodiversity and what are the threats to biodiversity?
- f) What are the adverse impacts of domestic and industrial waste water on surface water bodies?
- g) Explain Consumerism with types and effects?
- h) Explain Desert ecosystem in detail?
- i) What do you mean by Thermal pollution? Explain the controlling measures of thermal pollution?
- j) Write a short note on Ozone layer depletion?

**Q.3 Answer Any Two of the following Questions: -**

**(2x10=20)**

- a) What is Ecological Succession? Explain different steps of the process with example?
- b) What is watershed management? Write in detail about Rainwater harvesting technique?
- c) What are the factors responsible for population explosion? How education can play a key role in solving the problem of overpopulation?

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<b>Program:</b>	<b>DOTT</b>	<b>Year:</b>	<b>2<sup>nd</sup> Year</b>
<b>Course/Subject:</b>	<b>Basic Anaesthesia Technology</b>	<b>Duration</b>	<b>03:00 Hrs.</b>
<b>Course/Subject Code:</b>	<b>05080203</b>	<b>Maximum Marks:</b>	<b>80</b>
<b>Roll No.:</b>		<b>Batch</b>	<b>2016</b>

**Instructions:-**

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2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

**Q.1 Write short notes on all of the following:**

**(10x2=20)**

- a) Venturi mask.
- b) Air compressor.
- c) Diameter index safety system (DISS).
- d) Hanger and yoke assembly.
- e) Microlaryngeal endotracheal tube.
- f) Hypoxaemia and Hypoxia.
- g) Types of medical gas cylinders.
- h) Colour coding of pipelines
- i) Cylinder pressure gauge.
- j) Common gas outlet.

**Q.2 Answer Any Eight of the following Questions: -**

**(8x5=40)**

- a) Methods of increasing oxygen delivery with a manual resuscitator.
- b) Pressure Relief valve.
- c) Types of face masks and their uses.
- d) Tracheostomy decannulation.
- e) Importance of Pre-anaesthetic check up (PAC)
- f) Signs and symptoms of hypoxia.
- g) Nitrous oxide cylinder.
- h) Inhalational anaesthetic agents.
- i) Ten golden rules of anaesthesia.
- j) Fire and explosions in OT.

**Q.3 Answer Any Two of the following Questions:-**

**(2x10=20)**

- a) Describe various methods of sterilization and disinfection of instruments.
- b) Name different parts of a Bain's circuit and their uses.
- c) What are the various safety features of a modern anaesthesia machine?

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## END TERM THEORY EXAMINATIONS; MAY-2019

Program:	DOTT	Year:	2 <sup>nd</sup> Year
Course/Subject:	Basic Anaesthesia Technology	Duration	03:00 Hrs.
Course/Subject Code:	05080203	Maximum Marks:	80
Roll No.:		Batch	2015

**Instructions:-**

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

**Q.1 Write short notes on all of the following:**

(10x2=20)

- a) Rebreathing bag.
- b) AMBU bag.
- c) Pin index system.
- d) Atropine.
- e) Anaesthesia vaporisers.
- f) Hypoxia.
- g) Types of Oxygen masks.
- h) Colour coding of cylinders
- i) Magill's forceps.
- j) I gel.

**Q.2 Answer Any Eight of the following Questions: -**

(8x5=40)

- a) Automated External Defibrillator (AED).
- b) Pressure Relief valve.
- c) Jackson Rees Breathing circuit.
- d) Advantages and disadvantages of closed circuit.
- e) Tracheostomy
- f) Signs and symptoms of hypoxia.
- g) Nitrous oxide cylinder.
- h) Plathysmograph.
- i) Technique of insertion of oropharyngeal airways.
- j) Regional anaesthesia.

**Q.3 Answer Any Two of the following Questions:-**


(2x10=20)

- a) Describe various parts of Boyle's machine.
- b) Name different types of endotracheal tubes. Describe parts of an endotracheal tube.
- c) What are the various safety features of a modern anaesthesia machine?

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## END TERM THEORY EXAMINATIONS; MAY-2019

Program:	DOTT	Year:	2 <sup>nd</sup> Year
Course/Subject:	Advanced Anaesthesia Technology	Duration	03:00 Hrs.
Course/Subject Code:	05080204	Maximum Marks:	80
Roll No.:		Batch	2015

**Instructions:-**

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

**Q.1 Write short notes on all of the following:**

(10x2=20)

- a) Naso-pharyngeal airways.
- b) Irrigation fluid used in Percutaneous nephrolithotomy (PCNL).
- c) Transurethral resection of prostate (TURP).
- d) Anticholinesterase drugs (Cholinesterase inhibitors).
- e) Embolization.
- f) MRI.
- g) Methods of Blood Pressure measurement.
- h) Electroconvulsive shock therapy (ECT).
- i) Types of anaesthesia masks.
- j) Locations of peripheral pulses in the body.

**Q.2 Answer Any Eight of the following Questions: -**

(8x5=40)

- a) Drugs used in premedication.
- b) Anti-allergic drugs.
- c) Common modes of ventilator.
- d) Flexometallic endotracheal tube.
- e) Intravenous anaesthetics.
- f) Precautions to be taken during drug administration.
- g) Patient's rights and responsibilities.
- h) Parts of laryngoscope.
- i) Types of Intra-venous (IV) fluids.
- j) Locations of 5 leads ECG electrodes and precautions to be taken.

**Q.3 Answer Any Two of the following Questions:-**

(2x10=20)

- a) How will you lay out a trolley for spinal anaesthesia? What are various drugs used in sub-arachnoid block?
- b) What is the role of a technician in Pre-operative Room?
- c) Describe in details the nursing care of patient on ventilator?

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<b>Program:</b>	<b>DOTT</b>	<b>Year:</b>	<b>2<sup>nd</sup> Year</b>
<b>Course/Subject:</b>	<b>Applied Anaesthesia Technology</b>	<b>Duration</b>	<b>03:00 Hrs.</b>
<b>Course/Subject Code:</b>	<b>05080205</b>	<b>Maximum Marks:</b>	<b>80</b>
<b>Roll No.:</b>		<b>Batch</b>	<b>2015</b>

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3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

**Q.1 Answer all the following Questions: -**

**(10x2=20)**

- a) Nasal Airways.
- b) Pulse Oxymetry.
- c) Stylet.
- d) Face mask.
- e) Name two anticholinergic drugs.
- f) Soda lime.
- g) Morphine.
- h) Spinal Needles.
- i) Succinylcholine.
- j) Reservoir Bag.

**Q.2 Answer Any Eight of the following Questions: -**

**(8x5=40)**

- a) Liquid Oxygen.
- b) Pin Index System.
- c) Caudal block.
- d) How to calculate size of Endotracheal tube for intubation.
- e) LMA.
- f) Kidney Function Tests.
- g) Bronchospasm management.
- h) Bains Circuit.
- i) Blood Grouping.
- j) Precaution while shifting of patient from O T to recovery room.

**Q.3 Answer Any Two of the following Questions: -**

**(2x10=20)**

- a) Describe in details Pre - Anaesthesia Check up.
- b) Complications encountered in the recovery room.
- c) Oxygen therapy.

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