	PRINT
Qn No. 1	Chapter Name: 3. Chemical messages for Homeostasis
Qn.	
Hint.	
·	
	Marks :(4)
Hide Answer	
Qn No. 2	Chapter Name: 3. Chemical messages for Homeostasis
Qn.	
Hint.	
	Marka (2)
	Marks :(3)
Hide Answer	
Qn No. 3	Chapter Name: 3. Chemical messages for Homeostasis
Qn. Analyze the information given in the box and answer questions.	
Thymas, Pituitary, Pinial, Hypothala	amas
<ol> <li>Identify the gland which is not present in the brain.</li> <li>Which of these gland is a part of both nervous system and endocrine system?</li> </ol>	
Hint.	
Thymas     Hypothalamas	
	Marks :(2)
Hide Answer	
Qn No. 4	Chapter Name: 3. Chemical messages for Homeostasis
Qn. X is a hormone and Y is a gland.Observe the table and answer the questions.	
X Slows down the action of defense cells.	
Y Control the activities and maturation of T lymphocytes.	
1. Identify the Hormone indicated as X.	
2. Which endocrine gland does 'X' indicate?	
3. Name the hormone which stimulate the gland that secrete "X"?	

Hint.

- 1. Cortisol
- 2. Thymus
- 3. ACTH

Marks :(3)

Hide Answer

#### Qn No. 5

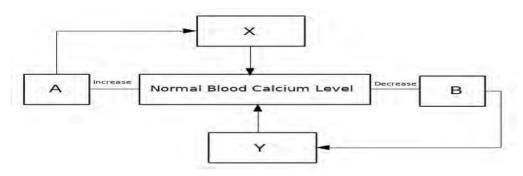
# Chapter Name: 3. Chemical messages for Homeostasis

#### Qn.

Maintenance of blood calcium level is illustrated below. Analyse it and answer the questions.

# Hints - A,B Glands

# X,Y Hormones



- 1. Write the normal blood Calcium level.
- 2. Identify the glands indicated as A and B.
- 3. Name the hormones mentioned as X and Y.
- 4. Write any one function of X in the regulation of blood calcium level.

#### Hint.

- 1. 9-11 mg/100ml
- 2. A- Thyroid Gland, B- Parathyroid gland
- 3. X Calcitonin, Y- Parathormone.
- 4. Prevents the process of mixing of calcium from bones to blood/ Stores the excess calcium from blood to bones.

Marks :(4)

Hide Answer

#### Qn No. 6

# Chapter Name: 3. Chemical messages for Homeostasis

#### Qn.

The normal level of two components of human blood given in the table. Analyze them and answer the questions.

Α	9-11 mg/100ml
В	70-110 mg/100ml

- 1. Identify A and B.
- 2. Name the hormones which maintains the normal level of A.
- 3. Write the disease caused by the excess level of B?

Hint.

1. A- Normal blood calcium level, B- Normal blood glucose level		
2. Calcitonin,Parathormone		
3. Diabetes		
		Marks :(3)
		•
Hide Answer		
Qn No. 7	Chapter	Name:3. Chemical messages for Homeostasis
0		
Qn. Tabulate the diseases given in the box		
1	omegaly, Epilepsy, Diabetes	
Aiznemer S, Acr	omegaly, Ephepsy, Diabetes	
Disorder of nervous system Disorder of endocrine system		
Disorder of hervous system disorder of endocrine system		
Hint.	Discoules of a situation of	
Disorder of nervous system	Disorder of endocrine syste	m
Alzheimer's	Acromegaly	
Epilepsy	Diabetes	
		Marks :(2)
Hide Answer		
	<b>.</b>	
Qn No. 8	Cnapter	Name:3. Chemical messages for Homeostasis
Qn.		
Tabulate the hormones given the box by giving the name of the the	ir glands as the heading.	
Vasopressin, Thyroxine, Releasing	hormone, Prolactin, Calcitonin	, Somatotropin
Hint.		
Hypothalamus	Thyroid	Pituitary
	nyroxine	Prolactin
Releasing hormone Ca	alcitonin	Somatotropin
		-
		Marks :(3)
Hide Answer		
Qn No. 9	Chapter	Name: 3. Chemical messages for Homeostasis
Qn.		
Analyse the table and give proper heading to columns A and B		

В

Ethylene

Α

Musk

Bombycol	Gibberellin		
Hint.			
Pheromones	Plant Horm	ones	
Musk	Ethylene		
Bombycol	Gibberellin		
			Marks :(2)
151. 4			
Hide Answer			
Qn No. 10			Chapter Name: 3. Chemical messages for Homeostasis
Qn. Classify the given terms based on the si	milarities and give proper he	eading.	
		n, Gibberellin, Bomby	col
		-	
115-4			
Hint. Pheromones			Plant hormones
Civeton, Bombycol	I	Ethylene, Gibberellin	
			Marks :(2)
			Mai N3 .(2)
Hide Answer			
Qn No. 11			Chapter Name: 3. Chemical messages for Homeostasis
Qn.			
Which among the following is/are not pro	oduced by pituitary gland?		
	Prolactin, Oxytocin, Soma	atotropin, Gonado trop	pic hormone
Hint.			
Oxytocin			
			Marks :(1)
Hide Answer			
THIS THOUSE			
Qn No. 12			Chapter Name:3. Chemical messages for Homeostasis
Qn.			
Complete the table by analysing the Hint	ts.		
X - production of milk. Y – facilitates lactation.			
		Gland	
Name X		J.u.iu	

Hint.		
	Name	Gland
x	Prolactin	Pituitary gland
Y	Oxytocin	Hypothalamus

Marks :(2)

Hide Answer

# Qn No. 13

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Write answers to the questions using the data given in box.

	Adrenal gland	
Cortex - aldosterone	Medulla - Cortisole	

- a) Which is the correct pair among those indicated in the box?
- b) Which is the site of action of the hormone that controls salt water balance ?6060

Hint.

- a) Cortex aldosterone
- b) Kidney

Marks :(2)

Hide Answer

# Qn No. 14

 ${\it Chapter Name:} 3. \ {\it Chemical messages for Homeostasis}$ 

Qn.

Find out the correct statement related to hormones among the following.

- a) Hormones act only on target cells.
- b) Hormones are the secretions of endocrine glands
- c) Hormones reach the target cells through special tubes
- d) Hormones are transported through the blood.
- 1. a, b, c are correct
- 2. a, c, d are correct
- 3. b, c, d are correct
- 4. a, b, d are correct

Hint.

4. a, b, d are correct

Marks :(1)

Hide Answer

	•
Qn. Identify the odd one and write the common feature of others TSH, ACTH, GTH, ADH	
Hint. ADH, Others are tropic hormones/produced by anterior lobe of pituitary	Marks :(1)
Hide Answer	
Qn No. 16	Chapter Name:3. Chemical messages for Homeostasis
Qn. Which among the following hormones has no role in the maintenance of blood glucose. Cortisol, Glucagone, Aldosterone, Insulin	
Hint. Aldosterone	Marks :(1)
Hide Answer	
Qn No. 17	Chapter Name:3. Chemical messages for Homeostasis
Qn No. 17  Qn.  Write the relation between the words among the word pairs by analysing them.  a) Thyroxine – Cretinism	Chapter Name:3. Chemical messages for Homeostasis
Qn. Write the relation between the words among the word pairs by analysing them.	Chapter Name:3. Chemical messages for Homeostasis
Qn. Write the relation between the words among the word pairs by analysing them.  a) Thyroxine – Cretinism b) Somatotropin – Dwarfism  Hint. a) The disease, Cretinism develops in children due to the deficiency of thyroxine.	Chapter Name:3. Chemical messages for Homeostasis
Qn. Write the relation between the words among the word pairs by analysing them.  a) Thyroxine – Cretinism  b) Somatotropin – Dwarfism  Hint.	Chapter Name: 3. Chemical messages for Homeostasis  Marks: (2)
Qn. Write the relation between the words among the word pairs by analysing them.  a) Thyroxine – Cretinism b) Somatotropin – Dwarfism  Hint. a) The disease, Cretinism develops in children due to the deficiency of thyroxine.	
Qn. Write the relation between the words among the word pairs by analysing them.  a) Thyroxine – Cretinism b) Somatotropin – Dwarfism  Hint. a) The disease, Cretinism develops in children due to the deficiency of thyroxine. b) The disease, Dwarfism develops in children due to the deficiency of Somatotropin.	
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Qn. Write the relation between the words among the word pairs by analysing them. a) Thyroxine – Cretinism b) Somatotropin – Dwarfism  Hint. a) The disease, Cretinism develops in children due to the deficiency of thyroxine. b) The disease, Dwarfism develops in children due to the deficiency of Somatotropin.  Hide Answer	Marks :(2)
Qn. Write the relation between the words among the word pairs by analysing them. a) Thyroxine – Cretinism b) Somatotropin – Dwarfism  Hint. a) The disease, Cretinism develops in children due to the deficiency of thyroxine. b) The disease, Dwarfism develops in children due to the deficiency of Somatotropin.  Hide Answer  Qn No. 18  Qn. Identify the odd one and write the common feature of others	Marks :(2)

Chapter Name: 3. Chemical messages for Homeostasis

Qn No. 15

# Qn No. 19

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Name the hormone indicated as "A" in the illustration.

Hypothalamus

A

Anterior lobe of pituitary

Tropic hormone

Hint.

Releasing hormone

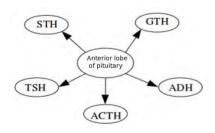
Marks :(1)

Hide Answer

# Qn No. 20

Chapter Name: 3. Chemical messages for Homeostasis

Qn.
Observe the illustration.



- a) Which hormone is wrongly included in the illustration?
- b) Which gland produces the wrongly included hormone? What is its function?

Hint.

- a) ADH
- b) Hypothalamus. Helps to reabsorb water from the kidney.

Marks :(2)

Hide Answer

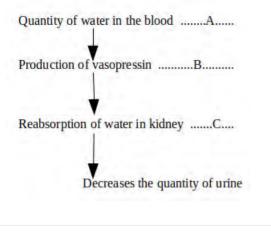
Qn No. 21

Chapter Name:3. Chemical messages for Homeostasis

Ωn.

Complete the illustration of the working of vasopressin using the data given in the box

Increases, Decreases, Normal level, No change



Hint.A. Quantity of water in the blood decreases

- B. Production of vasopressin increases
- C. Reabsorption of water in kidney increases

Marks :(3)

Hide Answer

#### Qn No. 22

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Answer the questions by analysing the given situations

- A. Production of vasopressin decreases.
- B. Production of insulin decreases.
- C. Production of calcitonin decreases.
- a) Which disease develops during the situation A?
- b) Which disease develops during the situation B?
- c) Which are the blood factors that vary during the conditions  $\mathbf{A},\,\mathbf{B}$  and  $\mathbf{C}$

Hint.

a) A – diabetes insipidus

- b) B Diabetes
- c) A water, B- glucose, C- calcium

Marks :(2)

Hide Answer

# Qn No. 23

Qn.

Chapter Name: 3. Chemical messages for Homeostasis

Which among the following is not a function of thyroid gland?

- a) Raises the rate of metabolism.
- b) Helps to reabsorb water in kidney
- c) Regulates growth in children.
- d) Increases energy production.

Hint.

b) Helps to reabsorb water in kidney

Marks :(1)

Hide Answer

#### Qn No. 24

# Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Analyse the given statements and explain how the functioning of endocrine glands are controlled?

- a) Hypothalamus controls pituitary gland
- b) Pituitary gland controls other endocrine glands

Hint.

- a) The releasing hormones produced by hypothalamus stimulate the production of hormones from pituitary gland. The inhibiting hormones produced by hypothalamus inhibits the production of hormones from pituitary gland.
- b) The tropic hormones produced by pituitary gland stimulate other endocrine glands.

Marks :(2)

Hide Answer

#### Qn No. 25

# Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Analyse the following statements and give reasons.

- a) Sleeps during night and wake up in the morning
- b) Bees and Termites live in colonies.

Hint

- a) The production of melatonin is high at night so we feel sleepy and low during the day so we wake up
- b) Chemicals called Pheromones act as chemical messengers.

Marks :(3)

Hide Answer

# Qn No. 26

#### Chapter Name: 3. Chemical messages for Homeostasis

#### Qn.

Prepare a flow chart on the action of hormones on target cells by rearranging the data.

- · Enzymes become functionally active within the cell
- Endocrine gland produces hormones
- · Changes occur in cellular activities.
- · Hormone receptor complex is formed
- · Hormone reaches the target cells through blood
- · Hormone molecule binds with the receptor

# Hint.

- Endocrine gland produces hormones
- · Hormone reaches the targetcells through blood

· Hormone molecule binds with the receptor Hormone – receptor complex is formed · Enzymes become functionally active within the cell · Changes occur in cellular activities. Marks:(3) Hide Answer Qn No. 27 Chapter Name: 3. Chemical messages for Homeostasis Certain hormones produced by Adrenal gland help to fight or flight from an emergency situation a) Which are the hormones depicted in the statement? b) How these hormones are connected to autonomous nervous system? Hint. a) Epinephrine (Adrenaline), Norepinephrine (Noradrenaline) b) The body activities developed when the sympathetic nervous system is stimulated are maintained for long time by the hormones Epinephrine (Adrenaline) and Norepinephrine (Noradrenaline) produced by adrenal gland. Marks :(3) Hide Answer **Qn No. 28** Chapter Name: 3. Chemical messages for Homeostasis Qn. "X" is a hormone. This hormone maintains the rhyth of daily activities. 1) Which is the hormone indicated by X? 2) Which gland produces this hormone? 3) What is the difference in the production of this hormone during night and day? Hint. 1) Melatonin 2) Pineal gland 3) Production of melatonin is high at night and low at day Marks:(3)

**Qn No. 29** 

Hide Answer

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

A. Nervous system controls the physiological activities

B. Along with nervous system, Endocrine system also controls the physiological activities

Write your response by analysing the opinions of A and B. Justify your response.

Hint.  Homeostasis can be maintained by the combined action of nervous system and endocrin norepinephrine maintain the longevity of body activities after the action of sympathetic s	
Hide Answer	
Qn No. 30	Chapter Name: 3. Chemical messages for Homeostasis
Qn.	•
A – Pituitary gland controls the production of hormone from endocrine glands  B - Hypothalamus controls the production of hormone from endocrine glands	
Write your response by analysing the opinions of A and B. Justify your response.	
Hint. Hypothalamus controls the production of hormones from endocrine glands. Releasing h anterior lobe of pituitary thus the tropic hormones for controlling other endocrine glands	
Hide Answer	
Qn No. 31	Chapter Name: 3. Chemical messages for Homeostasis
Qn. Write two concepts based on the following subtopics for preparing a seminar on artifician 1) Possibilities 2) Concerns	I plant hormones
Show Answer	
Qn No. 32	Chapter Name: 3. Chemical messages for Homeostasis
Qn. Find the odd and write the peculiarities of others.	
Auxin, Ethylene, Cytokinin, Gibberellin	
Hint. Ethylene. Others are in liquid form or stimulate the plant growth	Marks :(1)
Hide Answer	
Qn No. 33	Chapter Name: 3. Chemical messages for Homeostasis
On	

- Honey bees and termites are living in colonies. 1) Which chemical helps them to live in colonies?
- 2) Write other two functions of this chemical.
- 3) How this chemical can be used in the agricultural sector?

Hint.

- 1) Pheromones
- 2) To attract mates, to inform the availability of food ( to determine the path of travel, to give signals on dangers)
- 3) Artificial pheromones are used for pest control in agricultural sectors.

Marks :(3)

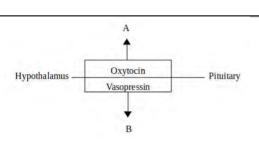
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#### Qn No. 34

# Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Write answer to the questions by analysing the illustration and data given in the box



- 1) Select name of the organs indicated as A and B in illustration from the box
- 2) How Hypothalamus and pituitary are related to oxytocin and vasopressin?
- 3) Write the action of oxytocin in A.

Hint.

- 1) A- Uterus, B Kidney
- 2) Hypothalamus produces oxytocin and vasopressin and releases them to the posterior lobe of pituitary.
- 3) Makes the childbirth easy by enhancing the contraction of smooth muscles of uterus.

Marks:(3)

Hide Answer

# **Qn No. 35**

# Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Functions of Plant hormones are given in the box. Analyse the box given below and complete the table suitably.

Fruit formation, Dropping of ripened leaves and fruits, Cell division, Break down of stored food, Growth of terminal buds.

mint.	
Cytokinin	Auxin
Cell division	Fruit formation
Cell differentiation .	Growth of terminal buds.

Kidney, Bone, Uterus

Hide Answer

#### Qn No. 36

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Analyse the given symptoms and tabulate them suitably

a) Weight loss b) Increase in body weight c) Emotional imbalance d)Hypertension e) Excessive sweating f) Inflammation in body tissues

Hypothyroidism	Hyperthyroidism

Hint.

Hypothyroidism	Hyperthyroidism
Increase in body weight	Weight loss
Inflammation in body tissues	Excessive sweating
Hypertension	Emotional imbalance

Marks :(3)

Hide Answer

#### Qn No. 37

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

X and Y in the illustration are hormones.

- X reduces the level of calcium in blood.
- · lodine is essential for the production of Y.
- 1) Name the hormones X and Y
- 2) Write any two functions of Y

Hint.

- 1) X Calcitonin, Y Thyroxine
- 2) Increases energy production / Raises the rate of metabolism / Accelerates the growth and development of the brain in the foetal stage and infancy.

Marks :(3)

Hide Answer

Qn No. 38

Chapter Name: 3. Chemical messages for Homeostasis

On

The names of certain endocrine glands of man are given below. Arrange them as from head to bottom based on the position.

Pancreas, Thyroid, Pituitary, Testis, Hypothalamus, Thymus Hint. Hypothalamus, Pituitary, Thyroid, Thymus, Pancreas, Testis Marks :(3) Hide Answer **Qn No. 39** Chapter Name: 3. Chemical messages for Homeostasis Qn. The production of somatotropin in persons A and B is given in the illustration. increases Somatotropin decreases В Identify the diseases of persons A and B? Hint. A - Gigantism **B- Dwarfism** Marks :(2) Hide Answer Qn No. 40 Chapter Name: 3. Chemical messages for Homeostasis Qn. It is essential to eat food containing iodine. Deficiency of iodine affects the functioning of a gland that controls the metabolic activities. 1) Which gland is indicated in this statement? 2) How does the deficiency of iodine affect this gland? Hint. 1) Thyroid gland 2) Deficiency of iodine causes the decrease in the production of thyroxine and it leads to a diseases called goitre. Marks :(2) Hide Answer **Qn No. 41** Chapter Name: 3. Chemical messages for Homeostasis Qn. Make a question that answers the level given below.

70-110 mg /100ml blood	
Hint. What is the normal blood glucose level?	Marks :(1)
Hide Answer	
Qn No. 42	Chapter Name: 3. Chemical messages for Homeostasis
Qn. Which among the following glands are not located in the brain?	
Thymus gland, Hypothalamus, Pinial gland, Adrenal gland, Pituitary gland	
Hint. Thymus gland,Adrenal gland	
	Marks :(2)
Hide Answer	
Qn No. 43	Chapter Name: 3. Chemical messages for Homeostasis
Qn. "Diabetes patient should be more energetic as their blood glucose levels are higher."	
"Diabetes patient should be more energetic as their blood glucose levels are higher."	ucose level increase due to the defeciency or malfunction  Marks:(2)
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl	
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.	
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.	
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.  Hide Answer  Qn No. 44	Marks :(2)
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.  Hide Answer  Qn No. 44	Marks :(2)
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.  Hide Answer  Qn.  Identyfy the glands related to the given statements.  a) Reduces the blood calcium level.  b) Maintains the salt- water level	Marks :(2)
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.  Hide Answer  Qn No. 44  Qn. Identyfy the glands related to the given statements.  a) Reduces the blood calcium level.	Marks :(2)
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.  Hide Answer  Qn.  Identyfy the glands related to the given statements.  a) Reduces the blood calcium level.  b) Maintains the salt- water level  c) maintain the rhythm of our daily activities	Marks :(2)
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.  Hide Answer  Qn No. 44  Qn.  Identyfy the glands related to the given statements.  a) Reduces the blood calcium level.  b) Maintains the salt- water level  c) maintain the rhythm of our daily activities	Marks :(2)
"Diabetes patient should be more energetic as their blood glucose levels are higher."  What explanation will you give to this doubt?  Hint.  Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gl of insulin. so glucose intake to the cell decrese. Energy production decreases.  Hide Answer  Qn.  Identyfy the glands related to the given statements.  a) Reduces the blood calcium level.  b) Maintains the salt- water level  c) maintain the rhythm of our daily activities  Hint.  a) Thyroid gland	Marks :(2)

#### Qn No. 45

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

Choose the statements related to the gland that secrete hormones enable to overcome emergency situations.

- 1. Medulla secrete hormones.
- 2. Situated justbelow the hypothalamus.
- 3. Stimulated by Adreno Cortico Tropic Hormone.
- 4. Hormone disorder leads to Acomegali.

Hint.

- 1. Medulla secrete hormones.
- 3. Stimulated by Adreno Cortico Tropic Hormone.

Marks :(2)

Hide Answer

#### **Qn No. 46**

Chapter Name: 3. Chemical messages for Homeostasis

Qn. Observ

Observe the illustration and write answers to following questions.

Indicator: Hormone X

X

Glucose — Glycogen

- a) which is the hormone indicated as X.
- b) Write two functions of  $\boldsymbol{X}$  to maintain the blood glucose level.

Hint.

- a) Insulin
- b) Stimulate the entry of glucose molecules into cell, converts glucose to glycogen in liver and muscles.

Marks :(3)

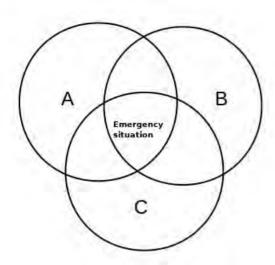
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Qn No. 47

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

The elements that enable the body to overcome the emergency situations are referred to as A, B, C.



- 1. Name the hormones that indicate A and B.
- 2. Identify the part of autonomous nervous system that indicates C.

Hint.

- 1. A,B- Adrinalin and noradrinalin
- 2. Sympathetic system

Marks :(3)

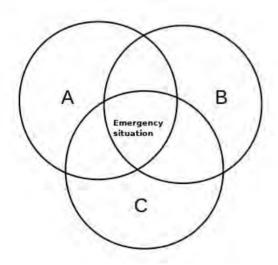
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# **Qn No. 48**

Chapter Name: 3. Chemical messages for Homeostasis

Qn.

The elements that enable the body to overcome the emergency situations are referred to as A, B, C.



- 1. Name the hormones that indicate A and B.
- 2. Identify the part of autonomous nervous system that indicates C.

Hint.

- 1. A,B- Adrinalin and noradrinalin
- 2. Sympathetic system

Marks :(3)

