	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.	
	Marks :(3)
Hide Answer	
Qn No. 3	Chapter Name: 3. Chemical messages for Homeostasis
Qn No. 3 Qn. Analyze the information given in the box and answer questions.	Chapter Name: 3. Chemical messages for Homeostasis
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Hint.

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

Hide Answer

Marks :(3)

Qn No. 5

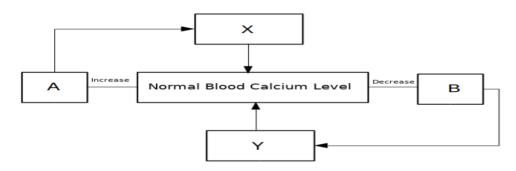
Chapter Name: 3. Chemical messages for Homeostasis

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 \boldsymbol{X} and \boldsymbol{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		
Tildo / tildo		
Qn No. 7	Chapter	Name:3. Chemical messages for Homeostasis
Qn.		
Tabulate the diseases given in the box		
Alzheimer's, Ad	cromegaly, Epilepsy, Diabetes	
Disorder of nervous system Disorder of endocrine system		
Hint.		
Disorder of nervous system	Disorder of endocrine system	m
Alzheimer's	Acromegaly	
Epilepsy	Diabetes	
Гриерзу	Diabetes	
		Marks :(2)
Hide Answer		
On No. 0	Oh 4	Name 2 Observing I management from Hamman stands
Qn No. 8	Cnapter	Name: 3. Chemical messages for Homeostasis
Qn.		
Tabulate the hormones given the box by giving the name of the th	neir glands as the heading.	
Vasopressin, Thyroxine, Releasin	g hormone. Prolactin. Calcitonin	. Somatotropin
	3 ,	,
Hint.		
Hypothalamus	Thyroid	Pituitary
Vasopressin	Thyroxine	Prolactin
Releasing hormone	Calcitonin	Somatotropin
		Marks :(3)
		mains .(3)
Hide Answer		
Qn No. 9	Chantor	Name:3. Chemical messages for Homeostasis
QII NO. 3	Спартег	Name.3. Chemical messages for nomeostasts
On		

В

Analyse the table and give proper heading to columns \boldsymbol{A} and \boldsymbol{B}

Ethylene

Musk

Bombycol	Gibberellin		
Hint.			
Pheromones	Plant H	lormones	
Musk	Ethylene		
Bombycol	Gibberellin		
			Marks :(2)
Hide Answer			
Qn No. 10			Chapter Name:3. Chemical messages for Homeostasis
Qn.			
Classify the given terms base	ed on the similarities and give prop		
	Etnylene, Gr	veton, Gibberellin, Bomby	col
Hint.			Bi
Civeton, Bombycol	heromones	Ethylene, Gibberellin	Plant hormones
		'	
			Marks :(2)
Hide Answer			
Qn No. 11			Chapter Name:3. Chemical messages for Homeostasis
4			Chapter Hamoles Chemical Incodegee for Hemolescane
Qn. Which among the following is	s/are not produced by pituitary glar	nd?	
		Somatotropin, Gonado trop	oic hormone
	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	
Hint. Oxytocin			
,			Marks :(1)
Hide Answer			
Qn No. 12			Chapter Name:3. Chemical messages for Homeostasis
Qn.			
Complete the table by analys	ing the Hints.		
X - production of milk. Y – facilitates lactation.			
		Gland	
Name X		Sianu	
Y			

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

Chapter Name: 3. 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

Hidde Answer Con No. 18 Con No. 16 Con No. 16 Con No. 16 Control, Glucagone, Aldosterone, Insulin Hidra Answer Hidra Answer Hidra Answer Control, Glucagone, Aldosterone, Insulin Hidra Answer Con No. 17 Con No. 17 Consper Name: 3. Chemical messages for Homeostasis Constitution between the words among the word pairs by analysing them. a) Thyroxine – Cretinism b) Somatotropin – Dwarfism Hidra Answer Hidra Answer Con No. 18 Chapter Name: 3. Chemical messages for Homeostasis Anarks: (2) Hidra Answer Hidra Answer Hidra Answer Con No. 18 Chapter Name: 3. Chemical messages for Homeostasis Anarks: (2) Hidra Answer Hidra Answer Hidra Answer Con No. 18 Chapter Name: 3. Chemical messages for Homeostasis Anarks: (2) Hidra Answer Hidra Answer Hidra Answer Con No. 18 Chapter Name: 3. Chemical messages for Homeostasis Anarks: (2) Hidra Answer Hidra Answer Chapter Name: 3. Chemical messages for Homeostasis Anarks: (2) Hidra Answer Chapter Name: 3. Chemical messages for Homeostasis Anarks: (17) Hidra Answer Hidra Answer	Qn. Identify the odd one and write the common feature of others TSH, ACTH, GTH, ADH	
On No. 16 Chapter Name:3. Chemical messages for Homeostasis On. Which among the following hormones has no role in the maintenance of blood glucose. Cortisol, Glucagone, Aldosterone, Insulin Hint. Aldosterone Marks :(1) Hide Answer On No. 17 Chapter Name:3. Chemical messages for Homeostasis On. 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. Hint. a) The disease, Dwarfism develops in children due to the deficiency of Somatotropin. Chapter Name:3. Chemical messages for Homeostasis Marks :(2) Hide Answer On No. 18 Chapter Name:3. Chemical messages for Homeostasis Chapter Name:3. Chemical messages for Homeostasis Name :(2) Hide Answer No No. 18 Chapter Name:3. Chemical messages for Homeostasis Name :(3) Chapter Name:3. Chemical messages for Homeostasis Name :(3) Chapter Name:3. Chemical messages for Homeostasis Name :(4) Hide Intity the odd one and write the common feature of others Notationin, Progesterone, Testostarone, Oestrogen		Marks :(1)
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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

Anterior lobe of pituitary

Tropic hormone

Hint.

Releasing hormone

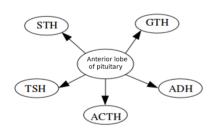
Marks :(1)

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

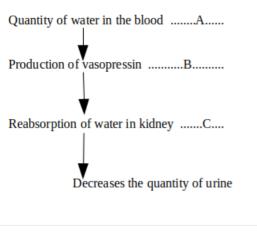
Qn No. 21

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)

Chapter Name: 3. Chemical messages for Homeostasis

Chapter Name: 3. Chemical messages for Homeostasis

Hide Answer

Qn No. 22

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.

Qn.

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

Marks :(2)

Hide Answer

Qn No. 23

Qn. 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)

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) Hide Answer

Qn No. 29

Chapter Name: 3. Chemical messages for Homeostasis

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 endocri norepinephrine maintain the longevity of body activities after the action of sympathetic states.	
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 hanterior 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 artificiantly Possibilities 2) Concerns Show Answer	al plant hormones
SHOW Allswei	
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	
TING ANOTHER	
Qn No. 33	Chapter Name:3. Chemical messages for Homeostasis
Qn.	

- 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)

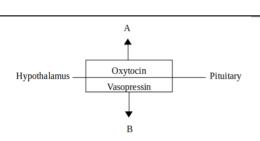
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Qn No. 34

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.

Hint.

HINT.	
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.

Make a question that answers the level given below.

Qn No. 41

Chapter Name: 3. Chemical messages for Homeostasis

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."	
What explanation will you give to this doubt?	
Hint. Energy is released by the breakdown of glucose in the cell. In diabetic patient blood gluof insulin. so glucose intake to the cell decrese. Energy production decreases.	cose level increase due to the defeciency or malfunction
	Marks :(2)
Hide Answer	
Qn No. 44	Chapter Name: 3. Chemical messages for Homeostasis
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	
b) Adrinal gland c) Pinial gland	
., y	Marks :(3)

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)

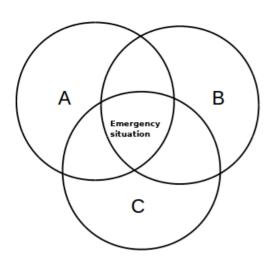
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Qn No. 47

Chapter Name: 3. Chemical messages for Homeostasis

Ωn

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)

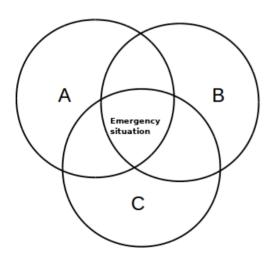
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Qn No. 48

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)

