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**DEPARTMENT OF
PHYSIOLOGY**



**DEPARTMENT
OF
PHYSIOLOGY
&
BIOCHEMISTRY**

**QUESTION BANK
PAPER-2**



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REPRODUCTIVE SYSTEM

May-1999: Describe phases of menstrual cycle and their control (12)

May-1999: Pregnancy tests(6)

April-2015, August-2013, March-2013:March-2001:September-2001:New: April-2006:March-2003: April-2012:Sept-2010March-2009:April-2004:August-2006:April-2011:Puberty (5)

April-2015: Testosterone (5)

March-2013: New(10):April-2004: April-2010:August-2006:(with hormonal regulation): August-2007:Sept-2010: Sept-2012: Describe in detail the menstrual cycle(15)

March-2013: August-1999(12)August-2006Sept-2010::Lactation(5)

April-2002:September-2001: May-2000August-2004(15)::spermatogenesis(7.5)

April-2002September-2001::May-2000March-2003: :ovulation(7.5)

March-2007: testosterone (5)

March-2007: corpus luteum

March-2009:functions of placenta(5)

April-2011:Ovarian changes during menstruation(7.5)

April-2012:graafian follicle(5)



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ENDOCRINE ORGANS

August-1998:Sept-2010:-thyroxin Describe the physiological action of thyroid hormones(15)

New:April-2004(15)August-2007(15): April-2008March-2009April-2011:::Describe synthesis of thyroid hormones and physiology of them(10)

August-1998: Cretinism(5)

August-1998, March-2013:April-2002: August-2006: Oxytocin (5)

August-1998: Describe the function of testes(15)

July-1998: Describe functions of Glucocorticoids and their control(12)

NewApril-2011:::glucocorticoids(5)

August-2004:mineralocorticoids(5)

July-1998: August-1999:Secretin(6)

April-1999: Describe the control of secretion and function of adrenocorticoids(15)

April-1999: April-2002(5):May-2000: Cretinism(7.5)

April-1999: what is normal sugar level? Discuss factors regulating it(15)

May-1999: Describe functions of aldosterone and control of its secretion(12)

May-1999: Describe physiology of testes(12)

April-2015: Describe physiological action of hormones secreted from posterior pituitary gland (15)

August-2013: Ennumerate hormones secreted by APG and functions of GH(5)

August-2013: Functions of testosterone(5)

March-2013: August-1999: Describe the physiology of thyroid hormone(15)

March-2013: Epinephrine(5)

March-2013: Dwarfism(5)

April-2008: acromegaly(5)

March-2013: August-2004: April-2006: Diabetes mellitus(5)

April-2000: August-1999: April-2000 August-2004(15): Describe regulation of blood sugar level(11)

April-2000: March-2003(20): Describe physiology of posterior pituitary(12)

April-2000: April-2012: Name the hormones of anterior pituitary . Write a note on growth hormone.(12)

March-2001: April-2000: Old: August-2004, April-2006: : Define hormone ? What are the anterior pituitary hormone? Discuss physiology of growth hormone.(15)

September-2001 April-2000:: Describe briefly posterior pituitary hormones(20)

August-1999: April-2004 March-2003: August-2007: April-2012:: ADH(6)

May-2000: oxytocin

New: April-2004: April-2006 April-2011:: insulin(5)

Old: Hypothyroidism (5)

March-2007: functions of thyroid hormone-T4(8)

March-2007: April-2011: Function of estrogen(7)

March-2007: April-2011: functions of GH(5)

March-2007: functions of ADH(5)

March-2009: functions of FSH and LH in males and females(5)

April-2011: Cushing's syndrome(5)

April-2010: Describe pituitary gland in detail with its applied physiology.(15)

Sept-2012: Describe the physiology of GH.(15)



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NERVOUS SYSTEM

August-1998:April-2002(7.5): May-2000:August-2004March-2003:August-2007:April-

2011: :Describe the function of hypothalamus(15)

August-1998, April-2015: OldMarch-2007: : Describe the tract of Gall and Burdach(15)

August-1998, August-2013: April-2002: September-2001: August-1999: May-2000 New: April-2011: :Neuron(5)

April-1999: August-1999: April-2006: Describe the tract of Gall and Burdach, what sensations are carried by them?(15)

May-1999: Describe physiology of posterior pituitary(12)

May-1999: New: April-2006 March-2009: : Sept-2010: April-2012: Sept-2012: Describe pyramidal pathway. Describe effects of its lesion(11)

May-1999: Ennumerate function of hypothalamus. Describe its role in: Temperature regulation, feeding, water balance(11)

May-1999: Plantar reflex(6)

April-2015: superficial reflexes(5)

August-2013: March-2001: March-2003: April-2011: Describe origin , course and termination and functions of pyramidal tract (15)

March-2013 March-2001: August-1999: April-2008: : April-2011(function-5) Describe the structure and function of cerebellum(15)

April-2002: May-2000 March-2003: : Describe the formation and function of CSF(15)

September-2001: CSF(5)

September-2001:function of thalamus(5)

March-2001:NewOldAugust-2007:::, April-2011:synapse(5)

August-1999:red nucleus(5)

August-2004:Describe pyramidal tract. Mention difference between upper motor neuron lesion and lower motor neuron lesion(20)

August-2006:Explain how somatic pain is carried in the brain(20)

August-2007:Describe corticospinal tract with its functions(15)

April-2011:Define synapse. Describe in detail the properties of synapse.(15)

April-2010:Define synapse.and describe classification, functions and characteristics of synapse(15)





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NERVE MUSCLE PHYSIOLOGY

August-1998, April-1999(10), April-2015: May-2000New April-2006(skeletal muscle)::Fatigue(5)

August-1998: April-2002: March-2001May-2000::March-2003: All or None's law(5)

April-1999: April-2000:March-2001: April-2000(5): August-2006Sept-2010::Tetany(10)

April-1999: OldApril-2008April-2012::simple muscle curve(10)

August-2013:September-2001: April-2004:March-2007: April-2011:Rigor -mortis(5)

April-2002: March-2001:Old:August-2004(5)fatigue :(7.5)

August-1999:Action potential(5)

April-2011:neuro-muscular junction(5)

Sept-2010:muscle spindle(5)



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DIGESTIVE SYSTEM

August-1998: Describe composition and function of pancreatic juice(15)

August-1998 August-2006:: August-2007 April-2011:: Describe composition and function of gastric juice(15)

August-1998: April-2002(7.5) April-2015: : May-2000: April-2006: Sept-2011: Function of bile(5)

August-1998 September-2001:: Sept-2011: Deglutition(5)

August-1998: March-2001: Specific dynamic action of food(5)

July-1998: Pavlov's pouch(6)

April-1999: What is normal blood sugar level? Discuss factors regulating it(15)

May-1999: April-2000(func. Only): Describe composition and function of saliva(11)

April-2015: Describe composition and function of salivary juice(15)

April-2015, August-2013: Taste buds(5)

August-2013: September-2001: Describe composition and function of bile(15)

August-2013: August-2004: Specific dynamic action of food stuffs(5)

March-2013: August-1999: Sept-2009: April-2000(5) Describe the secretion, composition and function of bile juice(15)

March-2013: March-2001 Sept-2012:: Peristalsis(5)

April-2002: May-2000: Old: April-2004: March-2007: Describe the composition, function and regulation of saliva(20)

April-2000: bile(5)

New: Old: bile salts(5)

April-2000:NewMarch-2003: April-2011::function of saliva(5)

April-2015: specific dynamic action of food stuffs(5)

March-2001:August-2006Sept-2009::Describe digestion and absorption of carbohydrates(15)

March-2001:Function of gastric juice(5)

New:Describe mechanism of secretion of gastric juice and origin and characteristics of individual contents of gastric juice(15)

Old:August-2004:August-2007April-2011:: April-2012: vomiting(5) April-2010: emesis(5)

August-2004:Describe composition and function of bile . Mechanism of secretion of bile(20)

March-2003: August-2007: Describe digestion and absorption of fat(20)

April-2006:March-2009: Describe composition and function of saliva and mechanism of secretion of it?(15)

April-2006April-2008::Sept-2010: Sept-2011: April-2012:Describe composition and function of gastric juice and mechanism of secretion of it?(15)

August-2006: Explain in detail the exocrine function of pancreas(20)

August-2007:movement of large intestine (5)

Sept-2009:April-2010:Sept-2011:movement of small intestine(5)

August-2007:GIT(5)

Sept-2010:Regulation of salivary secretion(5)

April-2010: Write composition and function of salivary and bile juice(15)



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METABOLISM

August-1998: September-2001:May-2000:March-2003: Glycolysis(5)

August-1998,July-1998(6):April-2002:September-2001:August-1999May-

2000MarchAugust-2007:-2003:Sept-2010:Sept-2009: ::April-2006:(with factors affecting)

Sept-2011:April-2010:BMR(5)

July-1998: September-2001March-2007:April-2011: :Kreb's cycle(TCA Cycle)(6)

Sept-2011:Describe in detail the process of digestion and absorption of carbohydrates and write a note on TCA cycle.(15)

May-1999: Nitrogen equilibrium (6)

April-2015, August-2013: April-2002(7.5):September-2001(8): May-2000:Sept-2010Sept-2009:: Sept-2011:Old:Describe B- oxidation of fatty acids(15)

March-2013: Describe in detail metabolism of carbohydrate (15)

April-2002May-2000OldMarch-2003:::August-2006:April-2008March-2009:

:cori's cycle(5)

April-2002:glycolysis(5)

April-2015: biological oxidation (5)

NewAugust-2004March-2007: :April-2008:March-2009:Sept-2012:Describe physiology of liver(15)

April-2006:Describe structure and function of liver(20)

April-2010:uric acid metabolism(5)

April-2012:catabolism of glucose(15)



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BIOCHEMISTRY OF PROTEINS , CARBOHYDRATES AND LIPIDS

July-1998:March-2001:August-2007:Glycosuria(5)

July-1998August-2007::March-2009: Nitrogen equilibrium (6)

May-1999:August-2006: Glucose tolerance test(6)

August-2013: Old:March-2007: Glycogen(5) or animal starch

NewAugust-2007::glycogenolysis(5)

NewAugust-2004::April-2008:April-2012:phospholipid(5)

New:fMarch-2007: April-2011:April-2008:folic acid(5)

April-2006:neo-glucogenesis(5)

Sept-2010Sept-2012::classify proteins. Describe its digestion and reabsorption in GIT..(15)

April-2010:Digestion of carbohydrates, proteins and fat.



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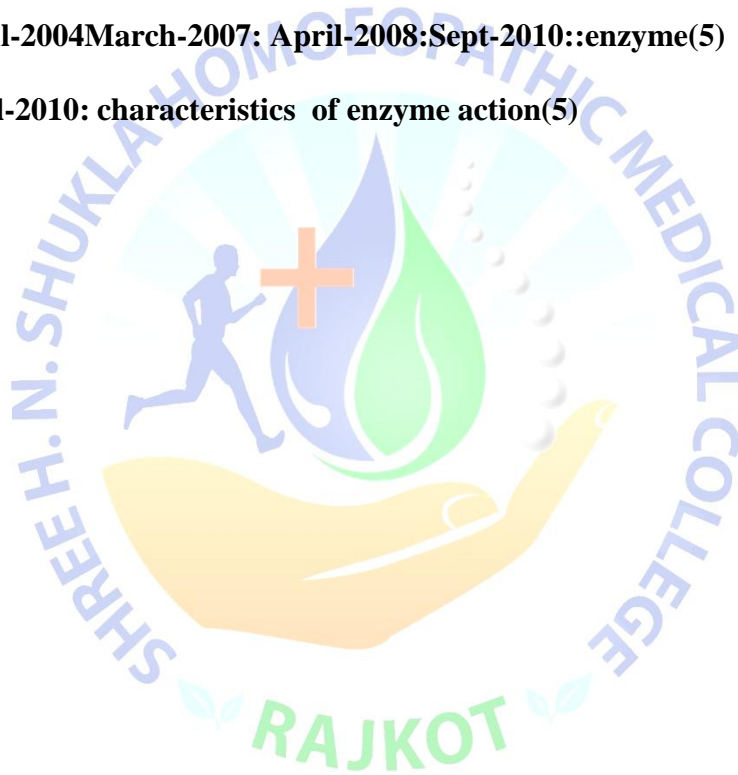
PHYSIOLOGY & BIOCHEMISTRY (PAPER-2)

ENZYMES

April-2015, August-2013: April-2006:Sept-2009: April-2012Sept-2012::Classification of enzymes(5)

August-2004:April-2004March-2007: April-2008:Sept-2010::enzyme(5)

March-2009:April-2010: characteristics of enzyme action(5)





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NUTRITION

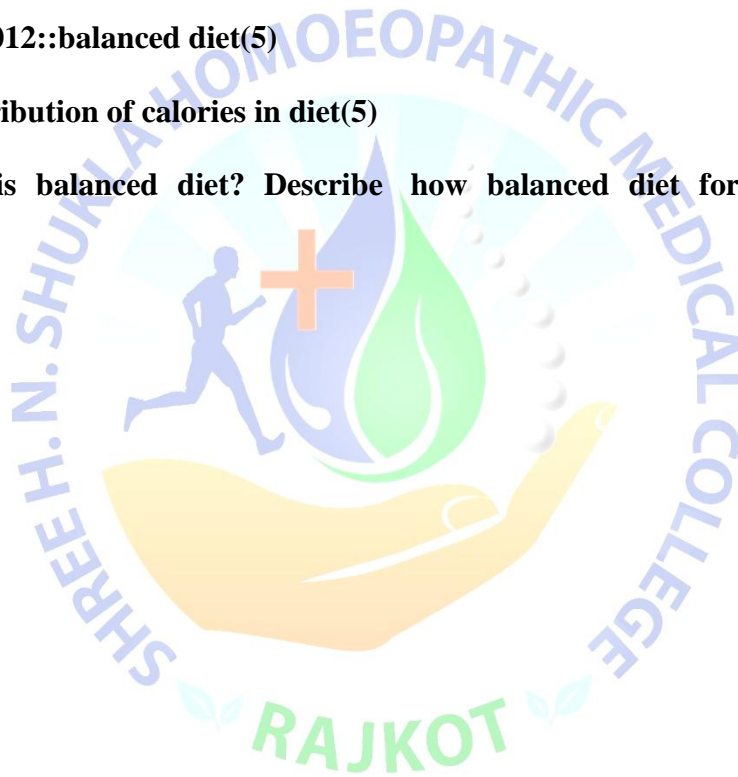
July-1998, May-1999(12): Describe principles of planning a balanced diet(11)

April-2002:March-2001(5): May-2000:normal diet(7.5)

April-2004Sept-2012::balanced diet(5)

March-2009:Distribution of calories in diet(5)

Sept-2010:What is balanced diet? Describe how balanced diet for pregnant lady is calculated.(15)





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VITAMINS

August-1998, July-1998(6): April-2002 March-2001: August-1999:: May-2000: Vitamin-D(5)

July-1998: vitamin-B12(6)

May-1999, March-2013(5): April-2000: September-2001: April-2000 Old: August-2006 Sept-
2010: Sept-2009:: Sept-2011: : vitamin -A(6)

April-2015: March-2001: August-1999: April-2006 August-2006 August-2007: Sept-
2012::: vitamin-C(5)

March-2003: ascorbic acid(5)

April-2006 August-2007 April-2012::: vitamin -k(5)