BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE 3 LIBRARY

PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – I
(General Physiology, Cell Physiology, Comparative Physiology, Biophysics)

Day: Saturday
Date: 05-10-2013

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Describe mechanics of respiration. **(25)**

Q.2 Define action potential. Describe the events in action potentials. Add a note on properties of action potentials. **(25)**

Q.3 Discuss the physiology and pharmacology related to cholinergic receptors. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) REM sleep

b) Deafness tests

c) Oedema

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PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – II
(Physiology Chemistry, Applied Biochemistry, Metabolism, Diet Nutrition)

Day: Monday
Date: 07-10-2013

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Discuss the regulation of adrenal gland functions. **(25)**

Q.2 Discuss functions of kidney. Enumerate kidney function tests. **(25)**

Q.3 Describe digestion and absorption of carbohydrates in gastro – intestinal tract. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) Cell mediated immunity

b) Metabolism in diabetes mellitus

c) Muscle blood flow

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PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – III
(Systemic Physiology)

Day: Wednesday
Date: 09-10-2013

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Discuss the role of stretch reflex. **(25)**

Q.2 Describe event in cardiac cycle. Add a note on heart sounds. **(25)**

Q.3 Define hypoxia. Describe various types of hypoxia. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) Gastric emptying
b) Neuro -endocrine reflex
c) Sarco-tubular system

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PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – IV
(History, Biographics, Recent advances)

Day: Friday
Date: 11-10-2013

Time: 2:00 P.M TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Discuss regulation of body temperature. **(25)**

Q.2 Describe mechanism of accommodation for near vision. **(25)**

Q.3 Describe structure of functions of platelets. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) Male sterility

b) Properties of nerve

c) Pavlov

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – I
(General Physiology, Cell Physiology, Comparative Physiology, Biophysics)

Day: Saturday
Date: 05-10-2013

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Describe mechanics of respiration. **(25)**

Q.2 Define action potential. Describe the events in action potentials. Add a note on properties of action potentials. **(25)**

Q.3 Discuss the physiology and pharmacology related to cholinergic receptors. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) REM sleep

b) Deafness tests

c) Oedema

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – II
(Physiology Chemistry, Applied Biochemistry, Metabolism, Diet Nutrition)

Day: Monday
Date: 07-10-2013

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Discuss the regulation of adrenal gland functions. **(25)**

Q.2 Discuss functions of kidney. Enumerate kidney function tests. **(25)**

Q.3 Describe digestion and absorption of carbohydrates in gastro – intestinal tract. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) Cell mediated immunity

b) Metabolism in diabetes mellitus

c) Muscle blood flow

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – III
(Systemic Physiology)

Day: Wednesday
Date: 09-10-2013

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Discuss the role of stretch reflex. **(25)**

Q.2 Describe event in cardiac cycle. Add a note on heart sounds. **(25)**

Q.3 Define hypoxia. Describe various types of hypoxia. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) Gastric emptying

b) Neuro -endocrine reflex

c) Sarco-tubular system

* * *

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PUSHPAVATI: OCT / NOV – 2013
SUBJECT: PAPAER – IV
(History, Biographics, Recent advances)

Day: Friday
Date: 11-10-2013

Time: 2:00 P.M TO 5:00 P.M.
Max. Marks: 100

N. B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Draw **DIAGRAMS** wherever necessary.

Q.1 Discuss regulation of body temperature. **(25)**

Q.2 Describe mechanism of accommodation for near vision. **(25)**

Q.3 Describe structure of functions of platelets. **(25)**

Q.4 Write notes on any **TWO** of the following: **(25)**

a) Male sterility

b) Properties of nerve

c) Pavlov

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M.Sc. (medical physiology)

PUSHPAWATI :OCT./NOV. 2011
SUBJECT : PAPER-I (Physiology)
(General Physiology, Cell Physiology, Comparative Physiology, Biophysics)

Day : Saturday
Date : 08-10-2011

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw diagrams **WHEREVER** necessary.

Q.1 Discuss various transports across cell membrane. **(25)**

Q.2 Discuss mechanics of respiration. **(25)**

Q.3 Discuss various hemodynamic principles. **(25)**

Q.4 Write notes on any **TWO:** **(25)**

a) Endocochlear potential

b) Evolution of four chambered heart

c) Positive feed back mechanisms

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PUSHPAWATI : OCT./NOV.- 2011
PAPER- II (Physiology)
(Physiologic Chemistry, Applied Biochemistry, Metabolisms, Diet, Nutrition)

Day : Monday
Date : 10-10-2011

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw diagrams **WHEREVER** necessary.

Q.1 Discuss cholesterol metabolism with its applied importance. **(25)**

Q.2 Discuss hormonal regulation of serum calcium level. **(25)**

Q.3 Discuss digestion and absorption of proteins in gastrointestinal tract. Add a note on protein malnutrition. **(25)**

Q.4 Write notes on any **TWO:** **(25)**

a) Abnormal haemoglobins

b) Therapeutic uses of enzymes

c) Hypothyroidism

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PUSHPAWATI : OCT./NOV. 2011
SUBJECT : PAPER-III (Physiology)
(Systemic Physiology)

Day : Wednesday
Date : 12-10-2011

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw diagrams **WHEREVER** necessary.

Q.1 Discuss regulation of muscle tone. **(25)**

Q.2 Discuss factors affecting local blood flow regulation. Add a note on coronary circulation. **(25)**

Q.3 Discuss neurophysiology of vision. **(25)**

Q.4 Write notes on any **TWO:** **(25)**

a) Functions of proximal and distal convoluted tubules

b) Phlebogram

c) Cytotoxic killer T cells.

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PUSHPAWATI : OCT./NOV. - 2011
SUBJECT : PAPER-IV (Physiology)
(History, Biographics, Recent Advances)

Day : Friday
Date : 14-10-2011

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw diagrams **WHEREVER** necessary.

Q.1 Discuss neurophysiology of pain. Add a note on analgesic system. **(25)**

Q.2 Classify mechanisms of regulation of blood pressure. Add a note on essential hypertension. **(25)**

Q.3 Discuss regulation of posterior pituitary hormones. **(25)**

Q.4 Write notes on any **TWO:** **(25)**

a) Tests to investigate a case of sterility

b) Pavlov's experiments

c) Ventilation perfusion ratio

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