

BLDE UNIVERSITY

May - 2014

PRE-PH.D COURSE WORK EXAMINATION

[Time :1 ½ Hours]

[Max.Marks : 50]

Paper – II BACKGROUND PAPER (PATHOLOGY)

QP CODE : 6021

TOPIC : Effect of 1, 25 (OH)<sub>2</sub> D<sub>3</sub> on pathophysiology  
of heart and lungs in male albino rats  
exposed to chromium VI

I. Answer the following

5x2=10 marks

1. What are the Occupational sources of chromium exposure?
2. Name laboratory investigations done for estimation of antioxidant enzymes.
3. Mention Occupational Safety and Health Administration permissible exposure limit (PEL) & time-weighted average (TWA) exposure limit for chromium.
4. Mention various cells where Vitamin D receptors (VDRs) are present
5. Mention two forms of Vitamin D. Mention which form of Vitamin D is synthesized in human being.

II. Answer ANY FOUR of the following

4x5=20 marks

6. Write note on Atomic absorption – Spectrophotometer.
7. Write note on laboratory investigations for assessment of Vitamin D status.
8. Describe biologic fate of chromium in the body.
9. Describe Methods to estimate Vascular Endothelial Growth Factor (VEGF).
10. Describe Molecular Mechanisms of Vitamin D actions.

III. Answer ANY TWO of the following

2x10=20 marks

11. Describe Mechanisms of chromium carcinogenicity & toxicity. Write note on role of Vitamin D in cancer prevention.
12. Describe laboratory investigations done for assessment of chromium toxicity.
13. Describe different types of heavy metals & their impact on human being.

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TOPIC: Sensitivity and Specificity of Diagnostic markers in Thyroid diseases: from Circulating chemistry to Molecular Cytogenetic.

I. Answer the following

5x2=10 marks

1. What is hyperthyroidism?
2. Role of anti TPO in thyroid diseases.
3. Mention specific immune markers of thyroid cancer.
4. What is subclinical thyroid dysfunction.
5. Enlist congenital anomalies of thyroid gland.

II. Answer ANY FOUR of the following

4x5=20 marks

6. Pathogenesis of autoimmune thyroid disease.
7. Role of anti-oxidants in thyroid disease.
8. Oncogene and thyroid cancer.
9. Conceptual molecular basis for thyroid disease.
10. Procedure for immune cytochemistry .

III. Answer ANY TWO of the following

2x10=20 marks

11. New development in diagnosis and treatment of thyroid cancer.
12. Role of FNAC in diagnosing solitary thyroid nodule.
13. Thyroid resistance hormone syndrome.