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FINAL EXAM JUNE 2014 NATIONAL BOARD OF EXAMINATIONS

PATHOLOGY

PAPER - I

PATH/J/14/32/I

Time : 3 hours Max. Marks : 100

Important instructions:

- · Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

years?

| 1. | a) Define the process of angiogenesis and lymphangiogenesis. b) Discuss in brief role of angiogenesis in cancer. c) Enumerate immunohistochemical markers of lymphangiogenesis. | 3+5+2 |
|-----|---|---------|
| 2. | a) Chemical carcinogenesisb) Spontaneous tumour regression and tumour lysis syndrome | 5+5 |
| 3. | Enumerate the functions of lysosomes and describe their role in cell injury and disease. | 2+3+5 |
| 4. | a) HIV infection associated malignancies b) Immune status and pathology of leprosy | 5+5 |
| 5. | a) Epigenetic change in cancer b) Inherited cancer syndromes | 5+5 |
| 6. | Define autoimmunity. Enumerate various autoimmune disorders and write in brief on factors associated with development of autoimmune diseases. | 2+(4+4) |
| 7. | a) Biomedical waste management in Pathology b) Audit in histopathology laboratory | 5+5 |
| 8. | Define vasculitis. Describe recent classification of vasculitis. Write morphological features of polyarteritis nodosa. | 2+3+5 |
| 9. | a) Cell proliferation markers and their methods of analysisb) Recent concepts in atherosclerosis | 5+5 |
| 10. | What are different types of study designs? How will you design a case control study? What statistical methods would you apply in a prospective case control study with clinical follow up of five | 3+4+3 |