

PATHOLOGY

PAPER – I

PATH/J/16/32/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:

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| 1. a) Molecular pathology of embryonal tumours of the CNS. | 5+5 |
| b) Pathogenesis of anaphylactic shock. | |
| 2. a) Haematopoietic stem cells: regulatory network and
De novo generation. | 5+5 |
| b) DNA mismatch repair defects in carcinogenesis. | |
| 3. a) In-vitro diagnosis of hypersensitivity reaction. | 5+5 |
| b) Pathogenesis of ageing. | |
| 4. a) Thromboembolism in children. | 5+5 |
| b) Principle & applications of confocal microscope. | |
| 5. a) GATA 3 and its role in tumour diagnosis. | 5+5 |
| b) Hypocomplementemia and its disorders. | |
| 6. a) Major abnormalities in immune functions in patients of
AIDS. | 5+5 |
| b) Chemotaxis and chemotactic agents. | |
| 7. a) Autophages. | 5+5 |
| b) Chromosomal instability. | |
| 8. a) Hyper IgM syndrome. | 5+5 |
| b) Monoclonality of a tumour. | |
| 9. a) Preneoplastic disorders. | 5+5 |
| b) Structure of amyloid. | |
| 10. a) Disorders of endogenous pigments. | 5+5 |
| b) APUD cells of GIT. | |
