PATHOLOGY

PAPER - II

PATH/J/17/32/II

Time : 3 hours Max. Marks : 100

- 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.

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/rite	sho	ort notes on:	
1.	,	Use of IDH, ATRX and Ip19q in classification of gliomas in recent WHO Classification. Techniques of Cell block preparation for fine needle and exfoliative cytology samples.	5+5
2.	,	Principle and applications of confocal microscopy. Pathophysiology of autophagy and its role in tumour development and storage disorders.	5+5
3.	,	Role of histopathologists in stratified medicine treatment of cancers. Nesidioblastosis	6+4
4.		Anti-NMDA encephalitis. Merits and demerits of various serum/tissue fluids based tuberculosis test.	5+5
5.	,	Endoscopic ultrasound guided FNA and approach to cystic pancreatic lesion reporting. Intra-operative squash smear cytology reporting of CNS lesion - advantage and limitations.	5+5
6.		Next Generation Sequencing (NGS): Its role and advantages. siRNA and its role in disease and treatment.	5+5
7.	,	Compare and contrast between "ThinPrep" Vs 'SurePath' preparations of liquid based cytology. BRAF V600 E mutation and its role in CNS and other lesions.	5+5
8.	,	Components and principles of Papanicolaou stain. HPV-Hybrid capture technique - principles and assessment.	5+5
9.		Cytofixatives and its type: Use and advantages. Role of cytogenetics in diagnosis and management of soft tissue tumours.	5+5
10.	,	miRNA in cancer. Pathology of acute lung injury.	5+5
