SURGICAL ONCOLOGY

PAPER-I

Time : 3 hours Max. Marks : 100 SURG. ONCO /D/11/47/I

Attempt all questions in order. Each question carries 10 marks.

1.5	 a. What is a predictive factor? b. Enumerate various prognostic and predictive factors for cancer. c. What are the molecular sub-types of breast cancer? d. How is gene expression profiling used for breast cancer. 	or breast
2.	a. What are cyclin dependent kinases?b. What are different modes of cyclin dependent regulation?	5+5 kinase
3.	a. Define pharmacogenomics and predictive molecular of Response and Survival.b. Discuss in brief their significance in the managem outcome of cancers.	
4.	a. What are ITC (Isolated Tumor Cells) and micro-metastb. What is their clinical and therapeutic significance?	asis? 5+5
5.	a. Define cancer screening.b. What are the principles of screening?c. Highlight the trials indicating outcome benefits and lir of breast cancer screening.	2+3+5 mitations
6.	a. What are cancer stem cells?b. What is the origin and significance of these cells tumors?c. Discuss their significance as targets of therapy.	2+4+4 in solid
7.	 a. What are mTOR inhibitors and their mechanism of act b. Enumerate some common mTOR inhibitors and their different cancers. 	
8.	a. Define "Apoptosis".b. Describe briefly various markers of apoptosis.c. Describe briefly the molecular pathways of apoptosis.	2+3+5

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9. a. What is Chemo-prevention?
b. Describe role of chemo-prevention in various cancers.
c. Highlight the limitations of chemo-prevention.
10. a. Describe the surgical anatomy of mesorectum.
b. Describe briefly the Total Mesorectal Excision (TME).
c. Discuss briefly the advantages and disadvantages (citing evidence) of pre and post-operative radiotherapy in rectal cancer.

c. Describe briefly the molecular pathways of appointing

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SURGICAL ONCOLOGY

Time Max		: 3 hours arks : 100	SURG. ONCO/D/11/47	/II
		t all questions in order	8. a Wirst are the carcinomia unin 0 What is the	
1.		Significance of MammaPrint and oncotype diagnormanagement of breast cancer. Outcome related issues in triple negative breast can		5+5
2.	b.	What is MRS (Magnetic Resonance Spectroscopy)? How does it differ from radio-tracer techniques? What is hyper-polarized 13C MRS?	ent ens fedder s 5+3 ant ens fedder 840 eldsbeser	3+2
3.	b.	What are the pitfalls and diagnostic dilemmas in sarcomas? Describe the optimum management of a 7cm X tissue sarcoma in the right anterior thigh of a 60 lady. Discuss briefly the absolute contraindications preservation in soft tissue sarcomas.	10 cm soft years old	i+2
4.	b.	What is interval cytoreductive surgery for ovarian ca What is its role in the management of epithelicancer? Discuss briefly the management of platinum recurrent ovarian cancer in a 40 years old lady.	al ovarian	?+4
5.		Discuss briefly the significance of Human Papill (HPV) in head and neck cancers. Discuss briefly the difference in the management and of HPV related squamous cell carcinomas of the Neck (HNSCC) as compared to the non-HPV-HNSC	d outcome Head and	+5
6.	b.	What is the significance of CME (Cervical Media Examination) in the optimum management of lung canceribe the role of FDG PET imaging in the stag cancers. Discuss briefly the role of EGFR inhibitors in advassmall cell lung cancer (NSCLC)?	ancer? ing of lung	+3
7.		What is Buschke Lowenstein tumor? Describe the management of a clinically node negroin in a 35 years old gentleman with carcing	gative (N ₀)	+7

(moderately well differentiated).

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8.	a.	What are the selective bladder preserving approaches for carcinoma urinary bladder?	4+4+2
	b.	What is the present evidence based guidelines for radio- chemotherapy in this cancer?	eup does
	C.	What would be the optimum management of muscularis propria invading bladder cancer in a 34 years old gentleman?	
9.	a.	What are the prognostic factors in Gastro-intestinal Stromal Tumors (GIST)?	5+5
	b.	What are the strategies in the management of primarily unresectable GIST?	
10.		What is incidental gall bladder cancer? Describe the management of incidental gall bladder cancer following laparoscopic cholecystectomy in a 35 years old lady.	5+5

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SURGICAL ONCOLOGY

PAPER- III

Time : 3 hours Max. Marks : 100

SURG. ONCO /D/11/47/III

Attempt all questions in order. Each question carries 10 marks.

1.	a. What is the role of surgery in cancer prevention?b. Discuss briefly the risk assessment and patient stratification for prophylactic surgery.c. Limitation and disadvantages of prophylactic surgery.	4+4+2 01
2.	 a. Describe the familial syndromes associated with Medullary Thyroid Cancer (MTC). b. Discuss briefly the significance of PET and RET in MTC. c. Describe the management of MTC (2X2 cm) involving the left lobe of thyroid in a 32 years old lady. 	4+3+3
3.	a. What are the various recommended approaches to esophageal resection for cancer esophagus?b. Discuss (trials & evidence based) and compare the outcomes following various approaches.	5+5
4.	a. Describe the optimum management of renal cell carcinoma in the upper pole of solitary kidney of a 32 years old gentleman.b. What are the contraindications and complications to nephron sparing surgery?	5+5
5.	a. What are k -ras mutations?b. Describe their utility in clinical practice.	5+5
6.	 a. What is the classical presentation of cancers of hypopharynx? b. Discuss briefly the management of a T₄N₁M_o tumor involving hypopharynx in a 40 years old smoker. c. Discuss briefly the selective neck dissections. 	2+4+4
7.	a. What is anterior skull base?b. Discuss briefly the recent advances in skull base surgery?c. Discuss the complications of skull base surgery.	4 +3+3
8.	a. What is the role of intra-peritoneal chemotherapy in the management of various cancers?b. Describe the newer and emerging evidence regarding its therapeutic indications?c. What is HIPEC?	4+3+3
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SURGICAL ONCOLOGY

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9.	a.	What is APBI and its role in early breast cancer?	4+3+3
		Oncoplastic techniques for central quadrant lesions in breast.	DEEC.
	C.	Various techniques and pitfalls of chemo-port placement.	

10. a. What are "Thyroid Incidentalomas"?b. Discuss briefly the evidence based management of an incidentaloma in the right lobe of thyroid of a 40 years old

Oscubs briefly the significe*** of PET and RET in MTC.

Describe the management of MTC (2X2 cm) involving the le

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Discuss the complications of skull base surgery.

management of various cancers?

Describe the newer and emerging evidence regarding its herapeutic adjustions?

c. What is HIPEC?

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