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SURGICAL ONCOLOGY

PAPER-I

Time: 3 hours Max. Marks: 100

DECEMBER 2019

SURGONCO/D/19/47/I

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:

b)	How does radiotherapy kills cancer cells? Enumerate fundamental principles of radiobiology. Discuss principles behind various fractionation schedules.	3+3+4
b)	What are the principles of cancer susceptibility at the genetic level? Enumerate few cancer susceptibility syndromes and genetic changes causing them. Describe genetic basis, mechanism of carcinogenesis and clinical features of any two cancer susceptibility syndromes.	3+3+4
b)	What are the cancers associated with infectious agents? Elaborate the epidemiology (incidence and prevalence) and mechanism of viral carcinogenesis in carcinoma cervix? How cervical cancers can be prevented by vaccine?	2+4+4
4. a) b) c)	What are the common epidemiological study designs? Describe "analytical studies". What is clinical trial registry?	3+5+2
b)	Enumerate the cancer sites caused by use of tobacco. Describe the National Cancer Control Programme. Describe the major pathway of carcinogenesis of tobacco.	2+3+5
b)	What are the types of Polymerase Chain Reaction? Describe ReverseTranscriptase - Polymerase Chain Reaction. What are the uses of Reverse Transcriptase Polymerase Chain Reaction in solid tumours?	3+5+2
ŕ	Describe the demographic factors that affect the risk of developing cancer. Describe the global temporal trends in the occurrence of Breast cancer and Gastric cancer.	5+5

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8.		Describe the role of Surgery in cancer prevention. Describe the role of risk reducing surgery in breast cancer.	5+5
9.	b)	Describe the surgical segments of liver with the help of a diagram. Describe in details how do you calculate the residual liver remnant and decide on the extent of liver resection using triple phase CT scans and liver function tests in a patient presenting with HCC. Briefly describe the Barcelona Clinic Liver Cancer Staging System.	3+3+4
10.	a) b)	Describe the hallmarks of cancer. Describe the therapeutic targeting of the hallmarks of cancer.	5+5
