0201N1452

Candidate's Seat No	•
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M.Sc. Sem.-1 Examination

404

Cancer Biology January-2024

Time: 2-30 Hours]

Instructions:

[Max. Marks: 70

All Questions are compulsory Draw neat and labeled diagram wherever necessary						
Q-1		Write the following	14			
	(i)	Discuss case control study and ecological type of study with their advantages and disadvantages.	7			
	(ii)	Elucidate the cellular response to radiation in detail. OR	7			
	(i)	In interpretation of epidemiological data, explain about random error, systemic error and confounding factors.	7			
	(ii)	Describe the hormones as a cancer risk factor.	7			
Q-2		Write the following	14			
	(i)	Define cancer epidemiology. What are the sources available to collect the data for cancer epidemiological studies?	7			
	(ii)	Describe Cowden syndrome in detail. OR	7			
	(i)	Define risk, ratio, hazard ratio, 95% confidence interval, proportion, mortality, survival, incidence and prevalence used in statistical data	7			
	(ii)	measurement and analysis. Describe oncogenic viruses, their site of persistence and infection rate.	7			
Q-3	/i\	Write the following	14			
	(i) (ii)	Describe how yoga helps to cancer patients and cancer survivors. Write a short note about developing and evaluating a cancer screening programme.	7 7			
		OR				
	(i)	Write a note on structure and synthesis of Vitamin D.	7			
	(ii)	Describe about genetic counseling for cancer patients.	7			

Q-4 Write the following				1		
	(i)	Write about the risk factors causing for cancer.				
	(ii)	Write a note on screening tests used for breast and prostate cancers. OR				
	(i)	Write a note on role of micronutrients as cancer prevention.				
	(ii)	Describe about screening tests for cervical and colon cancers.			7	
Q-5		MCQs (Any seven out of twelve)				
	1	In statistics, 95% confidence In				
	а	Specificity	b	Sensitivity		
	С	Accuracy	d	Precision		
	2	Which of the following genetic alteration is present in Li-Fraumeni syndrome?				
	а	1 normal and 1 mutated copy of P53 gene	b	Both mutated copies of P53 gene		
	С	Both normal copies of P53 gene	d	Deletion of P53 gene		
	3	Carotenoids are lipid soluble and derived from apolyene chain.				
	а	30 carbons	b	40 carbons		
	С	45 carbons	d	50 carbons		
	4	Mammography is used as scre	ening	g test for		
	а	Cervical cancer	b	Breast cancer		
	С	Colon cancer	d	Oral cancer		
	5	Which of the following is not ar	nalyti	ical type of study?		
	а	Cohort study	b Case control study			
	С	Prevalence study	d	Cross sectional study		
6		Human papilloma virus causes cancer.				
	а	Liver cancer	b	Stomach cancer		
	С	Cervical cancer	d	Leukemia		
	7	How much amount of protein content is present in Soy isolate?				
	а	20%	b	50%		
	C	60%	d	90%		
	8	The proportion of positive test result is known as:				
	а	True Negative	b	False Negative		
	С	True Positive	d	False Positive		
	9 In epidemiological data, low prevalence indicates					
	a	Low risk and rapid cure		Rapid cure with low risk		

High risk without cure

Low risk without cure

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10	Which of the following UV rays are absorbed by DNA?					
а	UVA	b	UVC			
С	UVB	d	UVB & UVC			
11	Genistein reduces	expression levels	of	, Which is an		
	oncogenic micro-RNA that is expressed in breast tumors.					
а	miR-155	b	miR-157			
С	miR-200	d	miR-201			
12	Aiden	ntifies symptomat	ic individuals	who may have		
	the disease.					
а	Screening Test	b	IVTC			
С	Diagnostic Test	. d	Biopsy			