University of Mumbai Examination 2020 under cluster 3 (FCRIT)

Program: BE Biotechnology

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: BTE 6023 and Course Name: Elective-II Cancer Biology

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks.

Q1.	Which is a part of interphase?	
Option A:	Synthesis phase	
Option B:	Prophase	
Option C:	Metaphase	
Option D:	Telophase	
Q2.	Tumor suppressor genes are also known as	
Option A:	Proto oncogenes	
Option B:	Oncogenes	
Option C:	Anti-oncogenes	
Option D:	Mutator genes	
Q3.	The division of cytoplasm is known as	
Option A:	Mitosis	
Option B:	Cytokinesis	
Option C:	Karyokinesis	
Option D:	Meiosis	
Q4.	p53 is activated by	
Option A:	Phosphorylation	
Option B:	Carboxylation	
Option C:	Methylation	
Option D:	Dephosphorylation	
Q5.	Retinoblastoma tumor suppressor gene is	
Option A:	p53	
Option B:	Proto oncogene	
Option C:	pRb	
Option D:	p21	
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Q6.	Cyclin is associated with	

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Option A:	Glycolysis		
Option B:	Leptospirosis		
Option C:	Cyclosis		
Option D:	Mitosis		
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Q7.	A carcinogen is		
Option A:	A type of blood disease		
Option B:	A type of cancer		
Option C:	A cancer causing agent		
Option D:	A gene		
Q8.	Most important biochemical effect of UV radiation is the formation of		
Option A:	Adenine dimers		
Option B:	Guanine dimers		
Option C:	Purine pyrimidine dimers		
Option D:	Pyrimidine dimers		
Q9.	Ionizing radiation does not cause		
Option A:	Chromosome breakage		
Option B:	Translocations		
Option C:	Point mutations		
Option D:	Pyrimidine dimers		
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Q10.	The repair mechanism for replication errors is		
Option A:	Base Excision Repair		
Option B:	Mismatch Repair		
Option C:	Nucleotide Excision Repair		
Option D:	Recombinational Repair		
Q11.	The main protein involved in non homologous end joining is		
Option A:	Amylase		
Option B:	Protease		
Option C:	Ligase		
Option D:	Kinase		
Q12.	The following viruses are associated with human cancers		
Option A:	RSV		
Option B:	HIV		
Option C:	Adenovirus		
Option D:	Rubella		
Q13.	Rous Sarcoma is a form of cancer which infects		

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Option C:	Uroplasty	
Option D:	Rehabilitation	
Q21.	Through what systems can a cancer cell travel during metastasis?	
Option A:	Nervous and Lymphatic	
Option B:	Circulatory and Nervous	
Option C:	Musculoskeletal and Circulatory	
Option D:	Circulatory and Lymphatic	
Q22.	Name the chemical carcinogen which causes prostate cancer	
Option A:	Radon	
Option B:	Arsenic	
Option C:	Cadmium	
Option D:	Asbestos	
Q23.	What is the origin of the cancerous cells?	
Option A:	Monoclonal	
Option B:	Polyclonal	
Option C:	Stem cells	
Option D:	Mesodermal cells	
Q24.	p53 gene is located on	
Option A:	14 th Chromosome	
Option B:	15 th Chromosome	
Option C:	16 th Chromosome	
Option D:	17 th Chromosome	
Q25.	How were retroviruses discovered?	
Option A:	In chickens as Rous sarcoma	
Option B:	In humans as HTLV-1	
Option C:	In mice causing leukaemia	
Option D:	In cats causing leukaemia	

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Question	Correct Option
Q1.	А
Q2.	С
Q3.	В
Q4	А
Q5	С
Q6	D
Q7	С
Q8.	D
Q9.	D
Q10.	В
Q11.	С
Q12.	А
Q13.	С
Q14.	В
Q15.	D
Q16.	С
Q17.	В

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Q18.	В
Q19.	В
Q20.	А
Q21.	D
Q22.	С
Q23.	А
Q24.	D
Q25.	А