

2020
PHYSIOLOGY
Course : 106.3
(Cancer Biology)

Full Marks : 40 Time : 2½ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any **two** questions of the following: 20×2=40

1. a) Explain the mutations of oncogene.
b) How is self-sufficiency in growth signals important for tumor cell proliferation?
10+10=20
2. a) How does a tumor cell invade the extracellular matrix?
b) Describe the path of vascular dissemination and homing of tumor cell with the help of a diagram.
6+14=20
3. Why is development of sustained angiogenesis important for development of cancer? How is this achieved?
6+14=20

[Turn over]

4. a) Why does risk of cancer increase with ageing in adults?
b) Describe the role of telomerase in replicative potential of tumor cells? 6+14=20

Submit your answer in PDF file to:

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cc: physiologyfirstsemexam2021@gmail.com