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1. A 28-year-old woman presented with pelvic pain. An ultrasound scan showed an ovarian neoplasm.

Surgical resection was performed, and the neoplasm was microscopically composed of different types of tissue, including skin, bone, teeth, respiratory epithelium, and glial tissue; which one of the following statements regarding this neoplasm is CORRECT:

- A. It is a type of mixed tumors that are derived from more than one germ cell layer
- B. It occurs only in males
- C. It is always benign
- D. It is made up of a variety of parenchymal cell types that are derived from a single germ cell layer
- E. Its usual location is in the gastrointestinal tract

Answer:A

2. A 50-year-old female patient presented with a deep, rapidly growing soft tissue mass on her leg. The mass was excised and histologically showed an aggressive tumor composed of dysplastic fibroblasts with frequent abnormal mitotic figures and invasion of surrounding tissue. What is the best diagnosis for the patient:

- A. Fibrous hamartoma
- B. Fibroma
- C. Fibrosarcoma
- D. Angiofibroma
- E. Fibromatosis

Answer:C

3. Which one of the following syndromes is NOT autosomal dominant:

- A. Familial Adenomatous Polyposis Coli (FAP)
- B. MEN syndrome
- C. Neurofibromatosis
- D. Xeroderma pigmentosum
- E. None of the above

Answer:D



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4. Nitrosamines increase the risk for which of the following tumors:

- A. Leukemia
- B. Hepatocellular carcinoma
- C. Lung cancer
- D. Gastric cancer
- E. Bladder cancer

Answer:D

5. One of the following is NOT an oncogenic DNA virus:

- A. HPV
- B. EBV
- C. Hepatitis B virus
- D. HTLV-1
- E. Polyomavirus

Answer:D

6. HPV is one of the microbial carcinogens; select the correct statement about this virus:

- A. All types are considered low-risk types
- B. E7 protein acts by binding to and degrading the P53 protein
- C. E6 protein acts by neutralizing the function of RB tumor suppressor gene malignant tumor.
- D. It is an oncogenic RNA virus
- E. It is maybe associated with oropharyngeal Carcinoma

Answer:E

7. Which one of the following is an oncogene:

- A. RB
- B. P53
- C. RAS
- D. APC
- E. More than one of the above

Answer:C



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8. Choose the correct statement regarding the RB gene:

- A. It is an oncogene
 - B. It is mutated in Li Fraumeni syndrome
 - C. Its main function is to regulate the G1/S checkpoint
 - D. In case of DNA damage, it induces apoptosis
- It acts in cell adhesion with E-cadherin

Answer:C

9. A 16-year-old male presented with abdominal pain and bleeding per rectum. A colonoscopy revealed the presence of hundreds of colonic polyps. Genetic testing revealed an APC gene mutation; which of the following facts about his disease is TRUE:

- A. APC acts in adhesion by regulating the destruction of β -catenin
- B. APC is an oncogene
- C. Colonic polyps typically develop after the fifties
- D. It is an autosomal recessive disease
- E. no risk of developing colonic carcinoma

Answer : A

10. Which one of the following tumors can be associated with hypoglycemia as a paraneoplastic syndrome:

- A. Fibrosarcoma
- B. Renal cell carcinoma
- C. Hepatic carcinoma
- D. Breast carcinoma
- E. Lung carcinoma

Answer: A



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