

PROVISIONAL ANSWER KEY

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Question1:-

Sacituzumab govitecan is an antibody-drug conjugate which uses following cytotoxic payload for its mechanism of action

A:-DM 4

B:-SN 38

C:-Calicheamicin

D:-MMAE

Correct Answer:- Option-B

Question2:-

Polatuzumab vedotin is used for treatment of

A:-Refractory DLBCL

B:-Mantle cell Lymphoma

C:-CTCL

D:- Myeloma

Correct Answer:- Option-A

Question3:-

All the following DNMT Inhibitors except

A:-Azacytidine

B:-Hydralazine

C:-Guadecitibine

D:-Tazemetostat

Correct Answer:- Option-D

Question4:-

Carfilzomib refers to which of the following drug class

A:-Peptide boronate

B:-beta lactone

C:- Peptide epoxyketone

D:-none of the above

Correct Answer:- Option-C

Question5:-

Elacestrant is an

A:-Oral SERD

B:-SERM

C:-Steroid AI

D:-none of the above

Correct Answer:- Option-A

Question6:-

Paraneoplastic Anti CAR Antibody is associated with which of following malignancy ?

A:-Neuroblastoma

B:-NSCLC

C:-Melanoma

D:-RCC

Correct Answer:- Option-C

Question7:-

Genetic association with HNSCC (Head and neck squamous cell carcinoma) exists with all the following except

A:-Fanconi anemia

B:-Ataxia telangiectasia

C:-Lynch II syndrome

D:- None of the above

Correct Answer:- Option-D

Question8:-

Which of the following CART T cell is used in adult patients with relapsed or refractory MCL

A:- Tisagenlecleucel

B:-Brexucabtagene autoleucel

C:-Idecabtagene vicleucel

D:-Lisocabtagene maraleucel

Correct Answer:- Option-B

Question9:-

All are humanized antibody except

A:-Elotuzumab

B:- Mogamulizumab

C:-Margetuximab

D:-Obinutuzumab

Correct Answer:- Option-C

Question10:-

Copanlisib is a

A:-PI3K inhibitor

B:-cdk4/6 inhibitor

C:-BTK inhibitor

D:-FGFR inhibitor

Correct Answer:- Option-A

Question11:-

Total number of persons with a history of cancer at some specified time point in a defined

geographic area, regardless of whether they are on remission, treatment, or cured is the definition of

A:-Incidence cases

B:-Prevalant cases

C:-Cancer burden

D:- Risk

Correct Answer:- Option-B

Question12:-

The ratio of observed survivors (all causes of death) in a cohort of cancer patients to the proportion of expected survivors in a comparable cohort of cancer free individuals.

A:-Relative survival

B:-cause-specific survival

C:-Net survival

D:-None of the above

Correct Answer:- Option-A

Question13:-

Having stopped smoking within the recent past, typically for a period of 1week to 1 year is called

A:- Former smoker

B:-Recent smoker

C:-Current smoker

D:-Non smoker

Correct Answer:- Option-B

Question14:-

Varenicline acts by

A:-Blocks nicotinic receptors and reduces reward

B:-Short-term NRT to reduce craving and withdrawal

C:-Dopaminergic reward and partial nicotinic receptor antagonist

D:-none of above

Correct Answer:- Option-C

Question15:-

Which of the following trial examine the impact of exercise and diet (emphasizing fat reduction and increased fruit and vegetable consumption) on progression-free survival among 1,070 patients with advanced ovarian cancer ?

A:-DIANA-5 trial

B:-INTERVAL trial

C:-LIVES trial

D:-None of the above

Correct Answer:- Option-C

Question16:-

Indications that Warrant Genetic Counseling for Hereditary Cancer Syndromes includes all except

A:-Early age of onset (\leq 45-50 y for breast, colon, or uterine cancer)

B:-Multiple family members on the same side of the pedigree with the same cancer

C:-Multiple primary cancers in one individual

D:-Follicular carcinoma thyroid

Correct Answer:- Option-D

Question17:-

Most common valvular disorder associated with mediastinal radiation is

A:-Mitral valve

B:-Aortic valve

C:-Tricuspid valve

D:-Pulmonary valve

Correct Answer:- Option-B

Question18:-

Average probability that an individual will develop or die from cancer with in a given age range or period, assuming the absence of competing causes of death is called as

A:-Relative risk

B:-probability risk

C:-Standard risk

D:-cumulative risk

Correct Answer:- Option-D

Question19:-

Cancers associated with obesity are all except

A:-Ca esophagus

B:-Gastric cardia CA

C:-Myeloma

D:-Synovial sarcoma

Correct Answer:- Option-D

Question20:-

All are Interventional studies testing the impact of dietary change, in cancer except

A:-MEAL study

B:-CHALLENGE study

C:-WINS study

D:-WHEL study

Correct Answer:- Option-B

Question21:-

Asplenic patients are at risk for developing infection with all except

A:-Neisseria meningitidis

B:-Salmonella

C:-Babesiosis

D:-Staphylococcus

Correct Answer:- Option-D

Question22:-

Agents with activity against MRSA and VRE include all except

A:-Quinupristin/dalfopristin

B:-Daptomycin

C:-Telavancin

D:-Teicoplanin

Correct Answer:- Option-D

Question23:-

Classic cardiac toxicity of cyclophosphamide (CTX) is

A:-acute myopericarditis

B:-cardiomyopathy

C:-QT prolongation

D:-cardiogenic shock

Correct Answer:- Option-A

Question24:-

Human Immunodeficiency Virus (HIV)-Associated Lymphoma are all except

A:-Plasmablastic lymphoma

B:-Primary diffuse large B-cell lymphoma of the central nervous system

C:-Polymorphic B-cell lymphoma

D:-Anaplastic large cell lymphoma

Correct Answer:- Option-D

Question25:-

All are risk factors for carcinoma male breast except

A:-gynecomastia

B:-h/o mumps orchitis

C:- chronic liver disease

D:-schistosomiasis

Correct Answer:- Option-A

Question26:-

Which of the following is at increased of Mediastinal Germ cell tumor ?

A:-William syndrome

B:-Down syndrome

C:-WAGR syndrome

D:-Klinefelter syndrome

Correct Answer:- Option-D

Question27:-

Which among the following is not related to hereditary renal cell carcinoma ?

A:-Tuberous sclerosis complex

B:-VHL syndrome

C:-Birt hogg dube syndrome

D:-Alagille syndrome

Correct Answer:- Option-D

Question28:-

All are haematological paraneoplastic manifestations of carcinoma lung except

A:-Pure red cell aplasia

B:-Thrombocytopenia

C:-Leukemoid reaction

D:-Erythrocytosis

Correct Answer:- Option-D

Question29:-

Radiation pneumonitis typically occurs

A:-< 1 month of treatment

B:-1-6 months

C:-6-12 months

D:-> 12 months

Correct Answer:- Option-B

Question30:-

Which of the following risk factor is associated with a denocarcinoma of oesophagus ?

A:-low socio-economic status

B:- Obesity

C:-Fossil fuels

D:-Selenium

Correct Answer:- Option-B

Question31:-

Prophylactic surgery is indicated in all the following except

A:-Familial adenomatous polyposis

B:-Hereditary Non Polyposis Colorectal Carcinoma (HNPCC) with confirmed mutation

C:-Ulcerative colitis with dysplasia

D:-Attenuated familial adenomatous polyposis with low polyp burden

Correct Answer:- Option-D

Question32:-

What is the common and serious complication of treatment with high dose Interleukin2 ?

A:-Hypertension

B:-Capillary leak syndrome

C:-Renal failure

D:-Thrombosis

Correct Answer:- Option-B

Question33:-

Mitotic index is determined by the formula

A:-
$$\frac{\text{Total tumor cells in mitosis}}{\text{Total tumor cells not in mitosis}} \times 100$$

B:-
$$\frac{\text{Cells in G1 phase}}{\text{Total number of tumor cells}} \times 100$$

C:-
$$\frac{\text{Total cells in mitosis}}{\text{Total number of tumor cells}} \times 100$$

D:-
$$\frac{\text{Total number of tumor cells}}{\text{Total number of cells in mitosis}} \times 100$$

Correct Answer:- Option-C

Question34:-

Sentinel Lymph Node Biopsy (SLNB) is usually done in all the following scenarios, except

A:-Early stage (T1/T2) invasive breast cancer

B:-Clinically node negative (N₀) Melanoma

C:-Inflammatory breast cancer

D:-Ductal carcinoma in situ undergoing mastectomy

Correct Answer:- Option-C

Question35:-

Which of the following best describes Gompertzian growth curve in the context of tumor growth ?

A:-It is a linear growth model where growth rate remains constant over time

B:-It is an exponential model with no upper limit on size

C:-It is an S shaped (Sigmoid) curve where the growth rate decreases exponentially over time when the population approaches maximum size.

D:-It is a J shaped curve showing rapid acceleration followed by an immediate steep decline.

Correct Answer:- Option-C

Question36:-

According to the International Commission on Radiation Units and Measurements (ICRU) report 50/62, which of the following best describes the Gross Tumor Volume (GTV) ?

A:-The volume containing the visible tumor plus a 1 cm margin for subclinical spread

B:-All gross disease including involved regional lymph nodes, and is determined by physical examination and imaging.

C:-The CTV plus a margin for patient setup uncertainties and organ motion.

D:-The volume that includes the tumor and the entire lymph node basin at risk.

Correct Answer:- Option-B

Question37:-

Which one of the following drugs is commonly used as a radiation sensitizer, particularly in the treatment of head and neck and cervical cancers, by inhibiting DNA repair and increasing the effect of radiation ?

A:-Cisplatin

B:-Amifostine

C:-Busulfan

D:-Methotrexate

Correct Answer:- Option-A

Question38:-

Which altered fractionation schedule aims to decrease the total overall treatment time to prevent tumor proliferation ?

A:-Hyperfractionation

B:-Accelerated fractionation

C:-Conventional fractionation

D:-Hypofractionation

Correct Answer:- Option-B

Question39:-

In iRECIST, what is the required action when new lesion(s) or increased tumor burden is observed following immunotherapy ?

A:-Discontinue treatment immediately.

B:-Label it as "Confirmed Progressive Disease" (iCPD) immediately

C:-

Label it as "Unconfirmed Progressive Disease" (iUPD) and confirm with a follow-up scan 4-8 weeks later.

D:-Ignore the new lesions and continue treatment.

Correct Answer:- Option-C

Question40:-

Hormone treatment is used in all the following malignancies, except

A:-Prostate cancer

B:-Breast cancer

C:-Endometrial cancer

D:-Small cell lung cancer.

Correct Answer:- Option-D

Question41:-

Which one of the statements is NOT true about Crizotinib.

A:-It is a tyrosine kinase inhibitor

B:-FDA approved indications include Relapsed ALK positive Anaplastic large celllymphoma and ALK positive metastatic Non Small cell lung cancer

C:-Commonest adverse effect is neutropenia

D:-Aprepitant is not a preferred antiemetic drug for Crizotinib induced vomiting.

Correct Answer:- Option-C

Question42:-

Differentiation syndrome is a known complication of all the following drugs except

A:-Ivosidenib

B:-Acalabrutinib

C:-Midostaurine

D:-Gliteritenib

Correct Answer:- Option-B

Question43:-

FDA approved indications for CAR T-cell therapy includes all the following except

A:-B acute lymphoblastic leukemia

B:-Diffuse large B cell lymphoma

C:-Mantle cell lymphoma

D:-Burkitt lymphoma

Correct Answer:- Option-D

Question44:-

The following statements about HPV vaccination are true except

A:-Recommended for both males and females between the age of 9 to 26 years

B:-

Two doses at an interval of 6 to 12 months are recommended if started before 15th birthday

C:-Three doses are recommended if started on or after 15th birthday

D:-HPV vaccine is contraindicated in immunocompromised individuals.

Correct Answer:- Option-D

Question45:-

HPV vaccination has protective effect on the following malignancies except

A:-Oropharyngeal cancer

B:-Nasopharyngeal cancer

C:-Carcinoma of uterine cervix

D:-Carcinoma of anal canal

Correct Answer:- Option-B

Question46:-

Which one of the following statements is not true about Venetoclax ?

A:-It inhibits BCL2 proteins

B:-

FDA approved indications include Chronic lymphatic leukemia and Mantle Cell lymphoma

C:-Adverse effects include hyperglycemia

D:-Venetoclax should be administered on an empty stomach

Correct Answer:- Option-D

Question47:-

The following statements about Tumor Infiltrating Lymphocyte (TIL) therapy are true except

A:- Indicated in advanced Malignant Melanoma

B:-Tumor infiltrating lymphocytes are genetically engineered before infusion

C:-Lymphodepleting chemotherapy is administered before infusion of tumorinfiltrating lymphocyte infusion.

D:-Interleukin 2 is administered after TIL infusion

Correct Answer:- Option-B

Question48:-

The following statements about tarlatamab are true except

A:-Indicated in extensive stage small cell lung cancer progressing after platinum based chemotherapy

B:-Premedication with dexamethasone is recommended

C:-Severe Cytokine release syndrome is a known complication

D:-

Cytopenia is not a common complication

Correct Answer:- Option-D

Question49:-

Which of the following drugs is contraindicated in Charcot Marie Tooth Disease

A:- Doxorubicin

B:-Vincristine

C:-Etoposide

D:-Cyclophosphamide

Correct Answer:- Option-B

Question50:-

Which one of the following is not a common complication of Trastuzumab based treatment

A:-Cardiomyopathy

B:-Interstitial pneumonitis

C:-Interstitial nephritis

D:-Infusion reaction

Correct Answer:- Option-C

Question51:-

Which of the following statements about smoking and lungcancer association is false ?

A:-Cigarette smoking is causally associated with several different malignancies.

B:-Second-hand smoke is an established cause of lung cancer in nonsmokers, indicating that there is no safe level of cigarette smoke exposure.

C:-Former smokers remain at elevated , risk of most smoking associated cancers compared with never-smokers, even after decades of cessation

D:-

The tobacco in Pipes and cigars is less harmful than the tobacco in cigarette.

Correct Answer:- Option-D

Question52:-

Which of the following cancers is not associated with smoking ?

A:-Stomach

B:-AML

C:- Cervix

D:-Testicular cancer

Correct Answer:- Option-D

Question53:-

Which of the following is the correct order of the relative risk, of malignancy associated with obesity ?

A:-Endometrial carcinoma > Esophageal adenocarcinoma > Gastric carcinoma

B:-Gastric carcinoma > Esophageal adenocarcinoma > Endometrial carcinoma

C:-Endometrial carcinoma > Gastric carcinoma > Esophageal adenocarcinoma

D:- Esophageal adenocarcinoma > Endometrial carcinoma > Gastric carcinoma

Correct Answer:- Option-A

Question54:-

Which of the following statements is wrong ?

A:-

In breast cancer, obesity is associated with a higher risk of cardiotoxicity from anthracycline and trastuzumab therapies.

B:-

In the SUCCESS-C trial weight loss intervention in stage II-III breast cancer significantly reduced the risk of breast cancer recurrence

C:-

Obesity leads to persistent peripheral neuropathy following paclitaxel-based chemotherapy in breast cancer patients

D:-

In breast cancer, obesity is associated increased risk of lymphedema

Correct Answer:- Option-B

Question55:-

Which of the following statement related to chemoprevention of cancer is wrong ?

A:-The Breast Cancer Prevention Trial (BCPT) Showed that the tamoxifen administration for 5 years led to 50% reduction in breast cancer.

B:-In prostate cancer, the use of finasteride leads to an increased incidence of high-grade prostate cancer.

C:-The use of α -tocopherol and β -carotene leads to a decrease in the incidence of lung cancer

D:-Nicotinamide use decreases the incidence of non-melanoma skin cancer.

Correct Answer:- Option-C

Question56:-

Approximately what percentage of all cancers is caused by smoking ?

A:-10%

B:-20%

C:-30%

D:-40%

Correct Answer:- Option-B

Question57:-

Which of the following statements related to cervical cancer screening is wrong ?

A:-screening by visual inspection method can lead to a 25% decrease in the incidence of cervical cancer.

B:-Visual inspection with Lugol's Iodine is more effective in reducing mortality than using acetic acid.

C:-Liquid-based cytological tests have similar sensitivity and specificity to Pap smears.

D:-

HPV DNA testing is not recommended in women younger than 30 years because of spontaneous regression of HPV infections in this age group.

Correct Answer:- Option-B

Question58:-

Which of the following is false regarding oral cavity cancer screening and prevention in India ?

A:-

Oral visual examination screening in high-risk populations was recommended every 5 years for adults aged older than 50 years

B:-

India was one of the first countries to sign and ratify the WHO Framework Convention on Tobacco Control

C:-The rate of transformation from nodular leucoplakia to malignant lesion in the oral cavity is 16% per year.

D:- Visual inspection method of screening decreases oral cavity cancer mortality by 80%.

Correct Answer:- Option-A

Question59:-

Which of these factors reduces the risk of cancer of the colorectum ?

A:-Vitamin C

B:- Dietary fibre

C:-Alcohol

D:-Oestrogen

Correct Answer:- Option-B

Question60:-

Which of the following increases the risk of prostate cancer ?

A:-Insulin-like growth factor - 1

B:- Alcohol

C:-Dietary fibre

D:-Salt

Correct Answer:- Option-A

Question61:-

A 27-year-old female presents emergently to her Primary care physician with a 2-week history of epistaxis and gum bleeding. She has never had these symptoms before and she is not on any type of anticoagulant therapy. A CBC with Plt/Differential shows a white blood count of $9500/\text{mm}^3$ (24% blasts), Hb = 10.5 g/dL, and platelets of $92000/\text{mm}^3$

She is immediately referred to a Hematologist/Oncologist. A DIC panel reveals a 65 mg/dL fibrinogen, PT >16 seconds, and PTT > 72 seconds. A bone marrow biopsy is performed and a formal diagnosis is pending. However, pathology comments that the premature white cells are HLA- DR- CD34-, MPO+, and CD33+. FFP and cryoprecipitate are being given to the patient. What should be done at this time ?

A:-Wait for the final pathology report; start hydroxyurea.

B:-Wait for the final pathology report; start dexamethasone

C:- Start 3+7 chemotherapy immediately.

D:-Start ATRA immediately.

Correct Answer:- Option-D

Question62:-

Which of the following is not a favorable prognostic factor for AML patients ?

A:-t(8;21)

B:-inv(16)

C:-t(6;9)

D:-t(15;17)

Correct Answer:- Option-A

Question63:-

Which of the following statements is not true about MRD in ALL ?

A:-Children with detectable MRD have decreased disease-free survival (DFS) and overall survival (OS)

B:-In children the level of detectable MRD correlates with relapse

C:-Semi-quantitative PCR is currently the only way to clinically assess MRD

D:-

MRD studies have demonstrated prognostic value when measured before and after allogeneic hematopoietic cell transplantation in ALL

Correct Answer:- Option-C

Question64:-

L and H reed-Sternberg cells are the neoplastic cells of NLPHL. These cells arise from which of the following :

A:- Germinal center B cells

B:-Activated B cells

C:-Primordial B cells

D:-Undifferentiated bone marrow stromal cells

Correct Answer:- Option-A

Question65:-

Which of the following is not a factor in the Mantle Cell Lymphoma International Prognostic Index (MIPI) ?

A:-Age

B:-ECOG PS

C:-Serum LDH

D:-Ann Arbor stage

Correct Answer:- Option-D

Question66:-

Which of the following statements is false about advanced stage DLBCL?

A:-For germinal center B cell DLBCL, 6 cycles of R-CHOP is the preferred therapy

B:-R-CHOP for 6 cycles is not considered sufficient for activated B cell DLBCL

C:-Maintenance rituximab improves outcomes in patients with activated B cell advanced stage DLBCL

D:-High-dose chemotherapy with autologous hematopoietic cell rescue in first complete remission is not recommended in patients with activated B cell advanced stage DLBCL

Correct Answer:- Option-C

Question67:-

The most common chromosomal abnormality in CLL is

A:-Del(13q)

B:-Del(11q)

C:-Trisomy 12

D:-Del(17p)

Correct Answer:- Option-A

Question68:-

Which of the following is not considered a classic end-organ damage criterion in the diagnosis of myeloma ?

A:-Serum calcium >11.5 g/dL

B:-Serum creatinine >2.5 mg/dL

C:-Hemoglobin (<10 g/dL or 2 g below normal)

D:-None of these

Correct Answer:- Option-B

Question69:-

Which of the following is not true about acute GVHD ?

A:-The incidence of acute GVHD is higher in those who receive an HLA mismatched transplant

B:-The incidence of acute GVHD is higher with male donor.

C:-Its incidence is lower with reduced-intensity conditioning regimens.

D:-Its incidence is lower with umbilical cord blood Compared with peripheral blood allogeneic HCT

Correct Answer:- Option-B

Question70:-

The modified Seattle criteria used to define hepatic SOS include all of the following except

A:-Serum conjugated bilirubin > 3 mg/dL

B:-Hepatomegaly

C:-Right upper quadrant pain

D:->2% increase in the baseline body weight

Correct Answer:- Option-A

Question71:-

In a patient with locally advanced transitional cell cancer of the bladder with chronic pelvic and abdominal pain. Which of the following is MOST IMPORTANT in determining the maximum dose of oral morphine during dose titration?

A:- Pain relief

B:-Respiratory depression

C:-Strength of pills

D:-Risk of overstepping regulatory limits

Correct Answer:- Option-A

Question72:-

Pharmacologic tolerance develops to all the following side effects of opioid analgesics except

A:-Sedation

B:-Constipation

C:-Respiratory depression

D:-Nausea

Correct Answer:- Option-B

Question73:-

A 25-year-old man was recently diagnosed with leukemia. He is admitted to the hospital for further evaluation and chemotherapy initiation. He only complains of fatigue and malaise. Laboratory evaluation reveals pancytopenia, hyperkalemia (K 6.8), uric acid 13, hyperphosphatemia (12), and elevated lactate dehydrogenase (LDH). What is the most likely cause of his electrolyte abnormalities ?

A:-Tumor lysis syndrome

B:-Acute renal failure

C:-Hypercalcemia

D:-Laboratory error

Correct Answer:- Option-A

Question74:-

A 75-year-old man with lung cancer was admitted to the hospital with worsening dyspnea. He has complained of progressive dyspnea for 2 months. On physical examination, he has distended jugular veins, a plethoric face, venous collaterals on his chest wall, and distant heart sounds. What is the most likely diagnosis ?

A:-Pericardial tamponade

B:-Constrictive pericarditis

C:-Congestive heart failure

D:-Superior vena cava syndrome

Correct Answer:- Option-D

Question75:-

A 74-year-old woman who has a history of breast cancer presents to the clinic with complaints of mild headache for the past few weeks. She describes daily retro-orbital headaches that get worse in the morning. In addition, she does vomits. MRI of the brain reveals multiple metastatic lesions. Which of the following is the most appropriate initial management for this patient ?

A:-Repeat MRI in 6 months

B:-Biopsy the lesion

C:-Surgical resection

D:-

Dexamethasone

Correct Answer:- Option-D

Question76:-

A 32-year-old woman who had an history of abortion 3 months back presented with lung metastases and brain involvement. Which of the following is the preferred treatment option in this patient ?

A:-EMA/CO regimen (Etoposide, Methotrexate, Actinomycin D, Cyclophosphamide, Vincristine) where methotrexate dose is modified to 1000mg/m^2 .

B:-BEP regimen (Bleomycin, Etoposide Cisplatin) with intrathecal methotrexate

C:-MAC regimen (Methotrexate Actinomycin D, Cisplatin) with cranial irradiation

D:-EMA/CO regimen (Etoposide, Methotrexate, Actinomycin D, Cyclophosphamide, Vincristine) with intrathecal methotrexate and cranial irradiation

Correct Answer:- Option-A

Question77:-

A 60-year-old female with metastatic lung adenocarcinoma tests positive for a RET fusion mutation. Which targeted therapy should be initiated as first-line treatment ?

A:-Alectinib

B:-Vandetanib

C:-Selpercatinib

D:-Ceritinib

Correct Answer:- Option-C

Question78:-

Which of the following statements regarding ADAURA trial for adjuvant therapy in non- small cell lung cancer is correct ?

A:-Patients with Ex19del /L858R and Exon 20 mutations were included for the study

B:-The dose of Osimertinib used was 160 mg per day

C:-The primary endpoint of the study was overall survival

D:-

There was an 83% reduction in the risk of disease recurrence or death, in the Osimertinib group compared to placebo group

Correct Answer:- Option-D

Question79:-

A 5-year-old male presents with a recurrent medulloblastoma. Molecular testing reveals amplification of the MYC oncogene. What is the implication of this finding in medulloblastoma ?

A:-It is associated with a better response to radiation therap.

B:-It suggests a more favourable prognosis and lower recurrence rate.

C:-It indicates a higher risk of metastasis to distant sites.

D:-It is associated with a worse prognosis and resistance to treatment.

Correct Answer:- Option-D

Question80:-

A 55-year-old postmenopausal woman presents with metastatic breast cancer to the bones. Immunohistochemistry of the primary tumor shows positive estrogen receptor (ER) and progesterone receptor (PR) expression, but negative HER2/neu expression. What is the most appropriate systemic therapy for this patient ?

A:-Fulvestrant plus alpelisib

B:-Letrozole or anastrozole

C:-Paclitaxel plus carboplatin

D:-Letrozole plus cdk4

Correct Answer:- Option-D

Question81:-

A 30-year-old premenopausal woman diagnosed with breast cancer undergoes breast cancer surgery, chemotherapy and radiotherapy. Her biopsy confirms the diagnosis of invasive ductal carcinoma (IDC), estrogen receptor-positive (ER+), progesterone receptor-negative (PR-), and HER2-negative. She is started on tamoxifen with Luperolide. She is desirous of pregnancy. What advice would you give ?

A:-To safely continue tamoxifen as it is a category 1 recommendation by FDA

B:-It is not advisable to become pregnant during her life time

C:-To stop Tamoxifen after 2 years and then plan pregnancy safely

D:-To change to fulvestrant and can consider pregnancy

Correct Answer:- Option-C

Question82:-

A 50-year-old woman presents for a routine mammogram. She has no significant medical history and no family history of breast cancer. The mammogram reveals an irregular mass with spiculated margins in upper outer quadrant of the right breast. There is also microcalcification noted adjacent to the mass. No axillary lymphadenopathy is visualized. The patient is asymptomatic and reports no breast changes. Based on the mammogram findings described, What is the most likely BI-RADS category for this lesion ?

A:-BI-RADS 3

B:-BI-RADS 4

C:-BI-RADS 5

D:-BI-RADS 6

Correct Answer:- Option-B

Question83:-

A 60-year-old male presents with metastatic melanoma. Molecular testing reveals BRAF V600 mutation-negative status. He has previously received chemotherapy with limited response. Upon further evaluation his tumor shows high expression of programmed death-ligand 1 (PD-L1). The patient is otherwise healthy with an Eastern Cooperative Oncology Group (ECOG) performance status of 1. The patient experiences immune-related adverse events (irAEs) during treatment. Which organ system is most commonly affected by irAEs associated with immune checkpoint inhibitors ?

A:-Gastrointestinal tract

B:-Renal system

C:-Respiratory system

D:-Cardiovascular system

Correct Answer:- Option-A

Question84:-

A 45-year-old male presents with a painless mass in the left side of his neck for the past two months. He reports a history of oral sex with multiple partners and occasional tobacco and alcohol use. Biopsy of the tonsillar lesion confirms the presence of human papillomavirus (HPV) and squamous cell carcinoma. Which of the following statements regarding the prognosis of HPV-positive head and neck cancer is true?

A:-

HPV-positive tumors have a worse prognosis compared to HPV-negative tumors

B:-

HPV-positive tumors are associated with a higher risk of distant metastasis

C:-HPV-positive tumors typically respond poorly to radiation therapy

D:-HPV-positive tumors have a better prognosis and improved response to treatment compared to HPV-negative tumors.

Correct Answer:- Option-D

Question85:-

A 52-year-old female presents to the clinic with complaints of abdominal bloating, pelvic discomfort, and increased urinary urgency for the past three months. She has no significant past medical history, but her maternal aunt was diagnosed with ovarian cancer at the age of 55. Imaging studies reveal a complex cystic mass measuring 8 cm in diameter arising from the ovary. CA-125 levels are significantly elevated. What is the most common histological subtype of ovarian cancer ?

A:-Serous carcinoma

B:-Mucinous carcinoma

C:-Endometrioid carcinoma

D:-Clear cell carcinoma

Correct Answer:- Option-A

Question86:-

In addition to BRCA mutations, which other biomarker has been associated with potential response to PAR P inhibitors in ovarian cancer ?

A:-PIK3CA mutations

B:-PTEN loss

C:-ATM mutations

D:-CDK12 amplification

Correct Answer:- Option-C

Question87:-

Which of the following populations should receive catch-up vaccination with the HPV vaccine after shared decision, according to CDC recommendations ?

A:-Women aged 45-50 year's old

B:-Men who have sex with men (MSM) up to age 45

C:-Individuals with a history of abnormal Pap smears

D:-Women who are pregnant

Correct Answer:- Option-B

Question88:-

Which of the following is NOT an adverse effect frequently associated with Cetuximab therapy in patients with colorectal cancer ?

A:-Infusion-related reactions

B:-Venous thrombosis

C:-Hypomagnesemia

D:-Diffuse erythematous rash

Correct Answer:- Option-B

Question89:-

A 35-year-old otherwise healthy male presents with a progressively enlarging painless mass on his right thigh over the past six months. He denies any history of trauma to the area. Physical examination reveals a firm, non-mobile mass measuring approximately 8 cm in diameter. There are no palpable regional lymph nodes. Magnetic resonance imaging (MRI) of the thigh demonstrates a well-defined soft tissue mass with heterogeneous enhancement. Given the clinical presentation and imaging findings, which of the following is the most likely diagnosis ?

A:-Liposarcoma

B:-Leiomyosarcoma

C:-Rhabdomyosarcoma

D:-Synovialsarcoma

Correct Answer:- Option-D

Question90:-

Which of the following targeted therapies is indicated for the treatment of metastatic colorectal cancer with BRAF V600E mutations, in combination with encorafenib and cetuximab?

A:-Olaparib

B:-Larotrectinib

C:-Vemurafenib

D:-Trifluridine/tipiracil

Correct Answer:- Option-C

Question91:-

Lenvatinib was granted accelerated approval by the FDA for the treatment of which of the following advanced cancers based on the results of the SELECT trial ?

A:-Endometrial cancer

B:-Thyroid cancer

C:-Hepatocellular carcinoma

D:-Renal cell carcinoma

Correct Answer:- Option-B

Question92:-

A 15-year-old male presents with fatigue, easy bruising, and recurrent infections over the past few weeks. Laboratory investigations reveal pancytopenia, with markedly elevated blast cells in the peripheral blood smear. Bone marrow biopsy confirms the diagnosis of acute myeloid leukemia (AML) with FLT3-ITD mutation. Which of the following targeted therapies is most likely to be effective in the treatment of this patient's AML ?

A:-Imatinib

B:-Venetoclax

C:-Midostaurin

D:-Pembrolizumab

Correct Answer:- Option-C

Question93:-

Which of the following statements regarding the use of lorlatinib in this patient population is most accurate ?

A:-Lorlatinib is primarily indicated as salvage therapy after failure of prior ALK inhibitor treatment

B:-Lorlatinib is contraindicated in patients with central nervous system metastases

C:-Lorlatinib has a favorable toxicity profile with minimal adverse effects

D:-Lorlatinib should be administered concurrently with chemotherapy for optimal outcomes

Correct Answer:- Option-A

Question94:-

Which of the following best describes the mechanism of trastuzumab-induced cardiotoxicity ?

A:-Direct inhibition of topoisomerase II leading to DNA damage in cardiomyocytes

B:-Generation of free radicals causing oxidative stress in cardiac tissue

C:-
Disruption of HER2 signaling pathway leading to cardiomyocyte apoptosis and dysfunction

D:-Induction of endothelial dysfunction leading to impaired coronary blood flow

Correct Answer:- Option-C

Question95:-

A 9-year-old girl presents with a large, painful mass in her pelvis. Imaging studies reveal a 12 cm mass involving the pelvic bones with infiltration into adjacent soft tissues. Biopsy confirms the diagnosis of alveolar rhabdomyosarcoma. In addition to future tumor size and extent of invasion, which of the following molecular markers is most relevant for risk stratification in this patient ?

A:-FGFR4 mutation status

B:-PTEN mutation status

C:-PAX3-FOXO1 fusion gene status

D:-EGFR mutation status

Correct Answer:- Option-C

Question96:-

Which of the following statement regarding Burkitt lymphoma in children is true ?

A:-Jaw and bone marrow are the common sites involved in Sporadic presentation

B:-The minimum duration of maintenance therapy is 12 months

C:-Rituximab is an effective drug in the treatment of Burkitt lymphoma

D:-CNS prophylaxis is optional in the management of Burkitt lymphoma

Correct Answer:- Option-C

Question97:-

A 3-year-old child presents with abdominal distension and a palpable mass right flank. Imaging studies reveal a 7 cm mass arising from the right adrenal gland with no evidence of distant metastasis. Biopsy confirms the diagnosis of neuroblastoma with favourable pathology and N-myc amplification positive. Which of the following is the most appropriate treatment approach for this patient ?

A:-

Chemotherapy followed by surgical resection and consolidation therapy with transplant

B:-Surgical resection followed by chemotherapy

C:- Chemotherapy followed by surgical resection

D:-High-dose chemotherapy with stem cell rescue alone

Correct Answer:- Option-A

Question98:-

In a 7-year-old child with Wilms tumor, preoperative chemotherapy is administered to shrink the tumor before surgery. Upon histopathological examination of the nephrectomy specimen, there is evidence of minimal tumor necrosis, with viable tumor cells comprising approximately 70% of the specimen. What is the most appropriate next step in the management of this patient based on the pathological response ?

A:-Administration of additional cycles of chemotherapy

B:- Initiation of radiation therapy to the abdomen

C:-Observation Without further intervention

D:-Surgical resection of the remaining viable tumor

Correct Answer:- Option-A

Question99:-

Which of the following statement best describes borderline operable pancreatic cancer ?

A:-Encasement of superior mesenteric artery less than 180 degree

B:-Portal vein thrombosis

C:-Infiltration into Liver

D:-Encasement of Aorta

Correct Answer:- Option-A

Question100:-

Which statement accurately describes the patient population enrolled in the KEYNOTE- 177 trial in metastatic colorectal cancer ?

A:- Patients with microsatellite stable (MSS)

B:-Patients with BRAF mutation-positive

C:-Patients with KRAS mutation-negative

D:-Patients with MSI-H or dMMR mCRC

Correct Answer:- Option-D