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Grade 68.0 out of 75.0 (91%)

Question 1

Correct

Mark 1.0 out of 1.0

A Caucasian patient with osteoporosis is diagnosed with hypertension. She has been on raloxifene and calcium carbonate for osteoporosis.

Which drug classes could improve bone density by reducing calcium loss and lowering blood pressure?

- A. Loop diuretic
- B. Hydrochlorothiazide
- C. Beta-blocker
- D. Ace inhibitor



Your answer is correct.

The correct answer is:

Hydrochlorothiazide



Question 2

Correct

Mark 1.0 out of 1.0

Renal damage is a potential adverse effect of aminoglycosides. In what part of the kidney are aminoglycosides retained, which causes this effect?

- A. Proximal tubule
- B. Loop of Henle
- C. Distal tubule
- D. Glomerulus



Your answer is correct.

The correct answer is:
Proximal tubule

Question 3

Correct

Mark 1.0 out of 1.0

We prescribe bromocriptine for a woman with primary amenorrhea. Normal menstruation returns about a month after starting therapy. Which of the following statements best describes the mechanism by which bromocriptine caused its desired effects?

- A. Inhibited prolactin release
- B. Stimulated gonadotropin-releasing hormone release
- C. Stimulated ovarian estrogen and progesterin synthesis
- D. Increased follicle-stimulating hormone (FSH) synthesis



Your answer is correct.

The correct answer is:
Inhibited prolactin release



Question 4

Correct

Mark 1.0 out of 1.0

Concerning androgens and anabolic steroids:

- A. Large doses can suppress spermatogenesis
- B. They decrease LDL cholesterol and increase HDL cholesterol
- C. They lead to a negative nitrogen balance
- D. They are contraindicated in bone marrow hypoplasia



Your answer is correct.

The correct answer is:

Large doses can suppress spermatogenesis

Question 5

Correct

Mark 1.0 out of 1.0

Concerning selective oestrogen receptor modulators:

- A. Raloxifene and tamoxifen are both oestrogen antagonists in the breast
- B. Tamoxifen increases the risk of endometrial cancer
- C. Raloxifene is contraindicated in uterine fibroids
- D. Raloxifene and tamoxifen are both contraindicated in breast cancer



Your answer is correct.

The correct answer is:

Tamoxifen increases the risk of endometrial cancer



Question 6

Correct

Mark 1.0 out of 1.0

A drug active against most trematodes (flukes) and cestode.

- A. Ivermectin
- B. Mebendazole
- C. Albendazole
- D. Praziquantel



Your answer is correct.

The correct answer is:

Praziquantel

Question 7

Correct

Mark 1.0 out of 1.0

Non-surgical destruction of diseased thyroid tissue can spare surrounding tissue, such as the recurrent laryngeal nerve.
Which drug causes thyroid ablation?

- A. Iodine ¹³¹ (Radioactive iodine)
- B. Methimazole
- C. Iodine supplements (Potassium iodide)
- D. Propylthiouracil



Your answer is correct.

The correct answer is:

Iodine ¹³¹ (Radioactive iodine)



Question 8

Correct

Mark 1.0 out of 1.0

Which of the following is an effective blood schizonticide used to treat rheumatoid arthritis?

- A. Primaquine
- B. Mefloquine
- C. Chloroquine
- D. Quinine



Your answer is correct.

The correct answer is:
Chloroquine

Question 9

Correct

Mark 1.0 out of 1.0

Which of the following anti-cancer agents can cause cumulative dose-related cardiac damage?

- A. Vincristine
- B. Doxorubicin
- C. Cyclophosphamide
- D. Chlorambucil



Your answer is correct.

The correct answer is:
Doxorubicin



Question 10

Correct

Mark 1.0 out of 1.0

GPRS
MR
FENG

The first-line agent to treat late African Trypanosomiasis (*T. b. Rhodesiense*) with CNS involvement is

- A. Doxycycline because it is effective against atypical bacterial and parasitic infections.
- B. Sodium stibogluconate because of its wide distribution, although it has a poor safety profile.
- C. Melarsoprol because it has good CNS penetration despite a poor safety profile. ✓
- D. Suramin because it is effective against the parasite, with a good side effect profile but low CNS penetration.

Your answer is correct.

The correct answer is:

Melarsoprol because it has good CNS penetration despite a poor safety profile.

Question 11

Incorrect

Mark 0.0 out of 1.0

This drug can kill most anaerobic bacteria and anaerobic protozoa but causes a disulfiram-like reaction in people who concurrently consume alcohol.

- A. Primaquine ✗
- B. Doxycycline
- C. Metronidazole
- D. Sodium stibogluconate

Your answer is incorrect.

The correct answer is:

Metronidazole



Question 12

Correct

Mark 1.0 out of 1.0

A 78-year-old man was brought to the emergency room, exhibiting bizarre behaviour and paranoid ideation. He complained of a headache, mental confusion, weakness, dizziness, and blurred vision. The man had type 2 diabetes, which was being treated with an oral anti-diabetic drug. On admission, his blood glucose was 2.4 mmol/L (normal 3.5–6.5 mmol/L).

Which drug most likely caused the patient's signs and symptoms?

- A. Glibenclamide
- B. Acarbose
- C. Metformin
- D. Pioglitazone



Your answer is correct.

The correct answer is:

Glibenclamide

Question 13

Correct

Mark 1.0 out of 1.0

A 56-year-old woman who has non-Hodgkin lymphoma developed an extensive skin rash after being treated for acute bacterial pharyngitis with an antibiotic.

Which of the following drugs most likely caused the allergic reaction?

- A. Amoxicillin
- B. Sulfamethoxazole
- C. Doxycycline
- D. Vancomycin



Your answer is correct.

The correct answer is:

Amoxicillin



Question 14

Correct

Mark 1.0 out of 1.0

The combination treatment for TB is intended to prevent the development of resistance, as each of the medicines has a unique mechanism of action. Which of the following is the CORRECT mechanism of action of rifampicin?

- A. Inhibits bacterial RNA-dependent DNA polymerase, thereby preventing RNA synthesis
- B. Inhibits the growth of organisms by lowering intracellular pH
- C. Inhibits bacterial DNA-dependent RNA polymerase, thereby preventing RNA synthesis
- D. Prevents mycolic acid synthesis, causing loss of acid-fastness



Your answer is correct.

The correct answer is:

Inhibits bacterial DNA-dependent RNA polymerase, thereby preventing RNA synthesis

Question 15

Correct

Mark 1.0 out of 1.0

Penicillins, cephalosporins, and amphotericin B are structurally different, and the antimicrobial spectrum of amphotericin B is different from those of the other agents. Nonetheless, they all share a common property or action.

Which of the following statements identifies what that is?

- A. They are contraindicated in immunocompromised patients.
- B. Nephrotoxicity is common.
- C. Act, through various mechanisms, on cell walls or membranes of susceptible organisms.
- D. Interact with many drugs by inducing their hepatic metabolism.



Your answer is correct.

The correct answer is:

Act, through various mechanisms, on cell walls or membranes of susceptible organisms.



Question 16

Correct

Mark 1.0 out of 1.0

A 26-year-old man wishing to start a family was diagnosed with infertility due to oligospermia. He started a treatment that included intramuscular injection of human chorionic gonadotropin three times weekly.

Which of the following molecular actions is the intended target for this therapy?

- A. Stimulation of gonadotrophin-releasing hormone secretion from the hypothalamus
- B. Stimulation of Leydig cell testosterone production
- C. Stimulation of gonadotrophin secretion from the anterior pituitary
- D. Activation of testosterone receptors in the hypothalamus



Your answer is correct.

The correct answer is:

Stimulation of Leydig cell testosterone production

Question 17

Correct

Mark 1.0 out of 1.0

Herpes zoster, commonly known as shingles, is caused by the reactivation of the varicella-zoster virus (VZV), a member of the herpesvirus family. Which antiviral drug is used to treat shingles?

- A. Valacyclovir
- B. Ganciclovir
- C. Lamivudine
- D. Zanamivir



Your answer is correct.

The correct answer is:

Valacyclovir



Question 18

Correct

Mark 1.0 out of 1.0

Chronic kidney disease may result in secondary hyperparathyroidism due to calcium deficiency. One of the treatments included cinacalcet, which may reduce bone demineralization from constant parathyroid hormone release.

Which of the following describes the mechanism of action of cinacalcet?

- A. Blockade of PTH receptors
- B. Blockade of calcium-sensing receptors
- C. Activation of parathyroid hormone (PTH) receptors
- D. Activation of calcium-sensing receptors



Your answer is correct.

The correct answer is:

Activation of calcium-sensing receptors

Question 19

Correct

Mark 1.0 out of 1.0

Which of the following drugs is preferred as a tocolytic in patients with eclampsia despite being a controlled drug due to poor safety profile, as it can abort seizures as well?

- A. Indomethacin
- B. Magnesium sulphate
- C. Salbutamol
- D. Oxytocin antagonist



Your answer is correct.

The correct answer is:

Magnesium sulphate



Question 20

Correct

Mark 1.0 out of 1.0

The nurse is assessing a patient's medication history. The patient has been prescribed a Macrolide for the treatment of otitis media. Which medication below is a Macrolide?

- A. Azithromycin
- B. Neomycin
- C. Streptomycin
- D. Levofloxacin



Your answer is correct.

The correct answer is:
Azithromycin

Question 21

Correct

Mark 1.0 out of 1.0

The agent of choice for onchocerciasis.

- A. Mebendazole
- B. Praziquantel
- C. Ivermectin
- D. Albendazole



Your answer is correct.

The correct answer is:
Ivermectin



Question 22

Correct

Mark 1.0 out of 1.0

Which of the following statements concerning tocolytics is true?

- A. Tocolytics can be safely used if intrauterine infection or premature rupture of membranes are used.
- B. The role of tocolytics is to delay labour by at least 48 hours, so steroids may be given to the mother to enhance lung maturation and improve foetal outcomes. ✓
- C. Tocolytics may be used to allow a pregnancy to reach term if labour begins before 26 weeks gestational age.
- D. Tocolytics are indicated even with a stillbirth, as the mother needs more time in case the foetal heartbeat is absent for more than a month.

Your answer is correct.

The correct answer is:

The role of tocolytics is to delay labour by at least 48 hours, so steroids may be given to the mother to enhance lung maturation and improve foetal outcomes.

Question 23

Correct

Mark 1.0 out of 1.0

Which of the following is a drug that shows no cross-allergenicity with other β -lactam antibiotics?

- A. Cefepime (cephalosporin)
- B. Ampicillin (penicillin)
- C. Cloxacillin (penicillin)
- D. Aztreonam (monobactam) ✓

Your answer is correct.

The correct answer is:

Aztreonam (monobactam)



Question 24

Correct

Mark 1.0 out of 1.0

Which of the following is correctly matched to the action and clinical indication?

- A. Levonorgestrel - Oestrogen receptor agonist: Hirsutism
- B. Nandrolone - Androgen receptor antagonist: Benign prostate hypertrophy
- C. Anastrozole - Aromatase inhibitor: Breast cancer
- D. Flutamide - Androgen receptor agonist: Male hypogonadism



Your answer is correct.

The correct answer is:

Anastrozole - Aromatase inhibitor: Breast cancer

Question 25

Incorrect

Mark 0.0 out of 1.0

Which of these anti-bacterial drugs has a broad spectrum and is active against most mycobacteria, many gram-positive and -negative bacteria, chlamydiae and rickettsiae?

- A. Ciprofloxacin
- B. Rifampicin
- C. Ethambutol
- D. Doxycycline



Your answer is incorrect.

The correct answer is:

Rifampicin



Question 26

Incorrect

Mark 0.0 out of 1.0

A benzimidazole derivative with less than 10% oral bioavailability.

- A. Diethylcarbamazine
- B. Praziquantel
- C. Ivermectin
- D. Mebendazole



Your answer is incorrect.

The correct answer is:

Mebendazole

Question 27

Correct

Mark 1.0 out of 1.0

Thyroid hormone therapy may treat thyroid-stimulating hormone-dependent thyroid cancers.

Which of the following thyroxine (FT4) and thyroid-stimulating hormone (TSH, thyrotropin) serum level findings explain why replacement of T3 or T4 would inhibit tumour growth without affecting the body's metabolic demands?

- A. FT4 high, TSH low
- B. FT4 low, TSH low
- C. FT4 low, TSH high
- D. FT4 high, TSH high



Your answer is correct.

The correct answer is:

FT4 high, TSH low



Question 28

Correct

Mark 1.0 out of 1.0

Which antibiotic can lead to "grey baby syndrome" in neonates due to inadequate glucuronidation?

- A. Doxycycline
- B. Gentamicin
- C. Erythromycin
- D. Chloramphenicol



Your answer is correct.

The correct answer is:

Chloramphenicol

Question 29

Incorrect

Mark 0.0 out of 1.0

Pulmonary coccidioidomycosis is treated with a drug that acts by inhibiting the fungal P-450 system.

Which of the following drugs was most likely administered?

- A. Fluconazole
- B. Flucytosine
- C. Amphotericin B
- D. Nystatin



Your answer is incorrect.

The correct answer is:

Fluconazole



Question 30

Correct

Mark 1.0 out of 1.0

Myxedema coma is a medical emergency. The rationale for giving a patient an intravenous injection of triiodothyronine (T3) every 6 hours is justified by which of the following principles, EXCEPT:

- A. T4 supplements have very low bioavailability when taken orally.
- B. Levothyroxine (T4) is the best drug of choice because most of the T3 comes from the breakdown of T4. ✓
- C. Thyroid deficiency causes a slowing of metabolism, slow mentation, and constipation.
- D. T3 is more potent than T4 but has a shorter half-life.

Your answer is correct.

The correct answer is:

Levothyroxine (T4) is the best drug of choice because most of the T3 comes from the breakdown of T4.

Question 31

Incorrect

Mark 0.0 out of 1.0

A patient with pulmonary TB is prescribed a rifampin-containing regimen. They are also taking warfarin for a separate medical condition. What is the recommended management to avoid a drug interaction?

- A. Switch to Rifabutin
- B. Monitor the patient's INR closely and adjust the warfarin dose as needed ✗
- C. Increase the warfarin dose.
- D. Discontinue warfarin temporarily during TB treatment

Your answer is incorrect.

The correct answer is:

Switch to Rifabutin



Question 32

Correct

Mark 1.0 out of 1.0

Which is the drug of choice for typhoid fever and anthrax?

- A. Chloramphenicol
- B. Ampicillin
- C. Ciprofloxacin
- D. Co-trimoxazole



Your answer is correct.

The correct answer is:

Ciprofloxacin

Question 33

Correct

Mark 1.0 out of 1.0

A 30-year-old man who was a long-distance runner had been using large doses of anabolic steroids for more than 10 years to increase his athletic performance. The man was most likely at increased risk of developing which of the following diseases?

- A. Osteoporosis
- B. Hemolytic anemia
- C. Hepatic tumours
- D. Angioneurotic oedema



Your answer is correct.

The correct answer is:

Hepatic tumours



Question 34

Correct

Mark 1.0 out of 1.0

A 50-year-old obese woman with type 2 diabetes was found to have inadequate control of her disease 2 months after starting therapy with metformin and glimepiride. The physician decided to add exenatide to the treatment regimen.

Which of the following molecular actions most likely mediated the therapeutic effect of the added drug in the patient's disease?

- A. Inhibition of dipeptidyl peptidase-4
- B. Inhibition of α -glucosidase
- C. Activation of adenosine monophosphate-activated protein kinase
- D. Activation of glucagon-like polypeptide-1 receptors



Your answer is correct.

The correct answer is:

Activation of glucagon-like polypeptide-1 receptors

Question 35

Correct

Mark 1.0 out of 1.0

Which class of medications should be avoided in patients with BPH due to their potential to exacerbate urinary symptoms by causing smooth muscle contraction in the prostate and bladder neck?

- A. Anticholinergic agents
- B. Alpha-blockers
- C. Phosphodiesterase-5 (PDE-5) inhibitors
- D. 5-alpha-reductase inhibitors



Your answer is correct.

The correct answer is:

Anticholinergic agents



Question 36

Correct

Mark 1.0 out of 1.0

Which class of diabetes medications primarily works by inhibiting renal glucose reabsorption?

- A. GLP-1 Receptor Agonists
- B. Sulfonylureas
- C. DPP-4 Inhibitors
- D. SGLT-2 Inhibitors



Your answer is correct.

The correct answer is:
SGLT-2 Inhibitors

Question 37

Correct

Mark 1.0 out of 1.0

Which of the following statements concerning oxytocics is not true?

- A. Oxytocins cause uterine muscle contractions to facilitate medical abortion and induce or augment labour.
- B. Oxytocics are not indicated after delivery of the fetus or neonate because they are only effective in a pregnant uterus.
- C. Oxytocics must be well titrated according to their response to avoid causing fetal distress.
- D. Cervical ripening must be assessed before labour induction to improve maternal and fetal outcomes.



Your answer is correct.

The correct answer is:
Oxytocics are not indicated after delivery of the fetus or neonate because they are only effective in a pregnant uterus.



Question 38

Correct

Mark 1.0 out of 1.0

A 42-year-old woman recently diagnosed with lupus erythematosus started treatment with a high daily dose of prednisolone. The woman had a history of type 1 diabetes, currently controlled with two daily administrations of premixed insulin.

Which of the following changes in the patient's anti-diabetic regimen should be made at this time?

- A. Add exenatide to the anti-diabetic regimen
- B. Increase the daily insulin dosage
- C. Add sitagliptin to the anti-diabetic regimen
- D. Add glimepiride to the anti-diabetic regimen



Your answer is correct.

The correct answer is:

Increase the daily insulin dosage

Question 39

Correct

Mark 1.0 out of 1.0

A fungal infection on his face may be treated with which of the following drugs may cause a photosensitivity reaction to the drug?

- A. Griseofulvin
- B. Amphotericin B
- C. Ciprofloxacin
- D. Flucytosine



Your answer is correct.

The correct answer is:

Griseofulvin



Question 40

Correct

Mark 1.0 out of 1.0

An HIV-infected woman is diagnosed with cytomegalovirus (CMV) retinitis. She has been on a HAART (highly active antiretroviral therapy) regimen containing zidovudine. Which of the following anti-CMV drugs is likely to cause additive myelosuppression with zidovudine?

- A. Acyclovir
- B. Ribavirin
- C. Foscarnet
- D. Ganciclovir



Your answer is correct.

The correct answer is:
Ganciclovir

Question 41

Correct

Mark 1.0 out of 1.0

Which of these types of insulin is correctly matched to the onset and duration of action?

1. Insulin lispro: long-acting
2. Insulin glargine: intermediate-acting
3. Isophane insulin: short-acting

- A. None
- B. 1 and 2
- C. 2 and 3
- D. 1 and 3



Your answer is correct.

The correct answer is:
None



Question 42

Correct

Mark 1.0 out of 1.0

Contraindications of intracavernosal alprostadil in the treatment of erectile dysfunction include:

- A. Ischaemic heart disease
- B. Concurrent use with prazosin
- C. Sickle cell disease
- D. Hypertension



Your answer is correct.

The correct answer is:

Sickle cell disease

Question 43

Incorrect

Mark 0.0 out of 1.0

A 52-year-old woman presented to her physician complaining of hot flashes and night sweats that disturbed her sleep. Her last menstrual period was 6 months ago. The physician prescribed a hormone replacement therapy with a combined contraceptive pill (ethinyl estradiol and norethindrone). This therapy might carry a small increase in the risk of which of the following diseases?

- A. Endometrial cancer
- B. Ovarian cancer
- C. Osteoporosis
- D. Breast cancer



Your answer is incorrect.

The correct answer is:

Breast cancer



Question 44

Correct

Mark 1.0 out of 1.0

Which antibiotic, commonly used to treat urinary tract infections, can lead to tendonitis and tendon rupture as a side effect?

- A. Ciprofloxacin
- B. Amikacin
- C. Gentamicin
- D. Clindamycin



Your answer is correct.

The correct answer is:

Ciprofloxacin

Question 45

Correct

Mark 1.0 out of 1.0

Which drug acts mainly by inhibiting organification, coupling and releasing thyroid hormones from the thyroid gland when given in doses exceeding the daily requirements?

- A. Propylthiouracil
- B. Radioactive iodine
- C. Methimazole
- D. Potassium iodide (Iodine)



Your answer is correct.

The correct answer is:

Potassium iodide (Iodine)



Question 46

Correct

Mark 1.0 out of 1.0

Which of the following anti-cancer drugs is an anti-metabolite?

- A. Methotrexate
- B. Cyclophosphamide
- C. Actinomycin D
- D. Vinblastine



Your answer is correct.

The correct answer is:

Methotrexate

Question 47

Correct

Mark 1.0 out of 1.0

Which of the following would be most appropriate for treating an adult male patient with severe acute falciparum malaria?

- A. Mefloquine
- B. Atovaquone-proguanil
- C. Artesunate
- D. Chloroquine



Your answer is correct.

The correct answer is:

Artesunate



Question 48

Correct

Mark 1.0 out of 1.0

A patient newly diagnosed with pulmonary TB is started on a standard four-drug regimen, including isoniazid (INH), rifampin (RIF), pyrazinamide (PZA), and ethambutol (EMB). Two months into treatment, the patient developed visual disturbances and difficulty discriminating between red and green colours. Which drug is most likely responsible for these side effects?

- A. EMB
- B. PZA
- C. INH
- D. RIF



Your answer is correct.

The correct answer is:
EMB

Question 49

Correct

Mark 1.0 out of 1.0

Pseudomonas aeruginosa cannot be managed with ampicillin. A therapy with a β -lactam antibiotic that is highly resistant to β -lactamases and is active only against most gram-negative aerobic bacteria can be used as an alternative.

Which of the following drugs is the alternative treatment?

- A. Cefepime (fourth-generation cephalosporin)
- B. Amoxicillin (penicillin)
- C. Ceftazidime (third-generation cephalosporin)
- D. Aztreonam (monobactam)



Your answer is correct.

The correct answer is:
Aztreonam (monobactam)



Question 50

Correct

Mark 1.0 out of 1.0

A 20-year-old woman started using a hormonal contraceptive with a monophasic combination of ethinyl estradiol and norethindrone. This contraceptive preparation's primary mechanism of action most likely includes decreased hormone secretion from which of the following organs or tissues?

- A. Posterior pituitary
- B. Endometrium
- C. Hypothalamus
- D. Ovary



Your answer is correct.

The correct answer is:
Hypothalamus

Question 51

Correct

Mark 1.0 out of 1.0

Aminoglycosides are most effective against which kind of microorganism?

- A. Anaerobic gram-positive bacteria
- B. Anaerobic gram-negative bacteria
- C. Aerobic gram-positive bacteria
- D. Aerobic gram-negative bacteria



Your answer is correct.

The correct answer is:
Aerobic gram-negative bacteria



Question 52

Correct

Mark 1.0 out of 1.0

A patient with TB and known HIV co-infection is receiving antiretroviral therapy (ART). Which anti-TB drug is known to have significant interactions with protease inhibitors used in HIV treatment?

- A. Rifampicin (RIF)
- B. Isoniazide (INH)
- C. Ethambutol (EMB)
- D. Pirazinamide (PZA)



Your answer is correct.

The correct answer is:
Rifampicin (RIF)

Question 53

Correct

Mark 1.0 out of 1.0

The drug of choice in the Addisonian crisis is:

- A. Ketoconazole
- B. Hydrocortisone
- C. Spironolactone
- D. Dexamethasone



Your answer is correct.

The correct answer is:
Hydrocortisone



Question 54

Correct

Mark 1.0 out of 1.0

A patient with invasive histoplasmosis is treated with amphotericin B.

Which of the following describes its mechanism of action?

- A. Inhibition of fungal mitosis
- B. Pore formation in fungal cell membrane
- C. Inhibition of fungal cytochrome P-450 enzymes
- D. Activation of fungal cytochrome P-450 enzymes



Your answer is correct.

The correct answer is:

Pore formation in fungal cell membrane

Question 55

Correct

Mark 1.0 out of 1.0

A patient develops jaundice after taking Primaquine. Blood tests show anaemia, with reticulocytosis and raised white cell count. His results are most likely due to a genetically induced enzyme defect.

Which of the following enzymes was most likely abnormal in this patient?

- A. Pyruvate kinase
- B. Glucose-6-phosphate-dehydrogenase
- C. Thymidylate synthase
- D. Dihydrofolate reductase



Your answer is correct.

The correct answer is:

Glucose-6-phosphate-dehydrogenase



Question 56

Incorrect

Mark 0.0 out of 1.0

A 29-year-old with AIDS was admitted to toxoplasmosis, for which combination therapy was started.

Inhibition of which of the following protozoal enzymes most likely mediated the therapeutic effect in this patient?

- A. Ferredoxin oxidoreductase
- B. Purine phosphoribosyl transferase
- C. Glucose-6-phosphate dehydrogenase
- D. Dihydrofolate reductase



Your answer is incorrect.

The correct answer is:

Dihydrofolate reductase

Question 57

Correct

Mark 1.0 out of 1.0

An elderly patient presented to the hospital with a severe gum infection. The gum swab cultures revealed gram-positive, non-acid-fast rods and branching filaments. A diagnosis was made, and an antibiotic therapy was prescribed.

Which of the following drugs would be most appropriate for this patient? (hint: microbes are above the diaphragm)

- A. Gentamicin
- B. Ciprofloxacin
- C. Penicillin
- D. Metronidazole



Your answer is correct.

The correct answer is:

Penicillin



Question 58

Correct

Mark 1.0 out of 1.0

Which of the following statements are true regarding the management of prostate carcinoma?

1. Gonadotrophin receptor antagonists are contraindicated.
2. Growth and spread of the tumour can be reduced by androgen deprivation.
3. Gonadotrophin-releasing hormone agonists increase the growth and spread of the tumour.

- A. 2
- B. None
- C. 1 and 2
- D. 2 and 3



Your answer is correct.

The correct answer is:

2

Question 59

Correct

Mark 1.0 out of 1.0

Which of the following antibiotics can interfere with bone and teeth development in children?

- A. Doxycycline
- B. Gentamycin
- C. Levofloxacin
- D. Erythromycin



Your answer is correct.

The correct answer is:

Doxycycline



Question 60

Correct

Mark 1.0 out of 1.0

Clinical uses of octreotide include all the following **except**:

- A. Acromegaly
- B. Endometriosis
- C. Bleeding oesophageal varices
- D. TSH-secreting adenomas



Your answer is correct.

The correct answer is:
Endometriosis

Question 61

Correct

Mark 1.0 out of 1.0

Narrow spectrum penicillins, both penicillinase-sensitive and -resistant, have relatively poor activity against gram-negative bacteria.

What is the main property or characteristic that explains why these microorganisms do not respond well to the penicillins?

- A. Metabolically inactivate these penicillins by mechanisms not involving β -lactamase
- B. Actively transport any absorbed penicillin back to the extracellular space
- C. Lack penicillin-binding proteins
- D. It has an outer membrane that serves as a physical barrier to the penicillins



Your answer is correct.

The correct answer is:
It has an outer membrane that serves as a physical barrier to the penicillins



Question 62

Correct

Mark 1.0 out of 1.0

Which corticosteroid is devoid of gluconeogenic action?

- A. Aldosterone
- B. Cortisone
- C. Dexamethasone
- D. Prednisolone



Your answer is correct.

The correct answer is:
Aldosterone

Question 63

Correct

Mark 1.0 out of 1.0

Which of the following is a penicillinase-resistant penicillin?

- A. Ampicillin
- B. Cloxacillin
- C. Aztreonam
- D. Cefepime



Your answer is correct.

The correct answer is:
Cloxacillin



Question 64

Correct

Mark 1.0 out of 1.0

A 53-year-old woman complained to her physician of weight gain, mild but continuing facial acne, and pigmented striae on her abdomen. Further exams led to the diagnosis of Cushing syndrome.

Which drug would be most appropriate to treat the patient's disease?

- A. Spironolactone
- B. Methimazole
- C. Ketoconazole
- D. Fludrocortisone



Your answer is correct.

The correct answer is:

Ketoconazole

Question 65

Correct

Mark 1.0 out of 1.0

A patient on an antiretroviral regimen for HIV presents with severe central nervous system side effects, including vivid dreams and hallucinations. Which one of the following drugs is responsible for the side effects?

- A. Nevirapine
- B. Zidovudine
- C. Efavirenz
- D. Maraviroc



Your answer is correct.

The correct answer is:

Efavirenz



Question 66

Correct

Mark 1.0 out of 1.0

A 24-year-old man complained to his physician of erectile dysfunction. Further exams led to the diagnosis of adult-onset hypogonadism, and therapy with a testosterone patch was started.

Which of the following effects most likely occurred after a few days of therapy?

- A. Enhanced erythropoietin synthesis
- B. Increased high-density lipoprotein levels
- C. Enhanced luteinizing hormone secretion
- D. Decreased growth of bone marrow stem cells



Your answer is correct.

The correct answer is:

Enhanced erythropoietin synthesis

Question 67

Correct

Mark 1.0 out of 1.0

Clavulanate (clavulanic acid) is combined with amoxicillin for which of the following reasons?

- A. Decrease side effects
- B. Improve palatability
- C. Prevent allergic reactions
- D. Prevent beta-lactamase degradation of amoxicillin



Your answer is correct.

The correct answer is:

Prevent beta-lactamase degradation of amoxicillin



Question 68

Correct

Mark 1.0 out of 1.0

A 74-year-old woman with a long history of rheumatoid arthritis has been receiving prednisolone for the past 3 months. She also has been receiving captopril to treat her hypertension.

Which of the following laboratory results would most likely occur in this patient?

- A. Hypocholesterolemia
- B. Hyperglycemia
- C. Hypokalemia
- D. Hypercalcemia



Your answer is correct.

The correct answer is:

Hyperglycemia

Question 69

Correct

Mark 1.0 out of 1.0

A family of four Americans plan to tour Tanzania, knowing that chloroquine-resistant strains of malaria are present in East Africa. Which of the following drugs would be the most appropriate prophylaxis for this family before they enter Tanzania?

- A. Pyrimethamine
- B. Primaquine
- C. Chloroquine
- D. Mefloquine



Your answer is correct.

The correct answer is:

Mefloquine



Question 70

Correct

Mark 1.0 out of 1.0

Which of the following anti-cancer drugs does not cause severe myelotoxicity?

- A. Cisplatin
- B. Cyclophosphamide
- C. Methotrexate
- D. Thioguanine



Your answer is correct.

The correct answer is:

Cisplatin

Question 71

Correct

Mark 1.0 out of 1.0

Prolonged overdosage of hydrocortisone can cause all of the following **except**:

- A. Osteoporosis
- B. Thickening of the skin
- C. Mental depression
- D. Slow healing of wounds



Your answer is correct.

The correct answer is:

Thickening of the skin



Question 72

Correct

Mark 1.0 out of 1.0

Acute tonsillitis caused by gram-positive bacteria may be treated with amoxicillin.

Which molecular actions most likely contributed to the drug's therapeutic effect?

- A. Binding to the 30S bacterial ribosomal subunit
- B. Activation of autolytic enzymes in the bacterial cell wall
- C. Activation of the efflux pump in bacterial cell membranes
- D. Inhibition of DNA-dependent RNA polymerase



Your answer is correct.

The correct answer is:

Activation of autolytic enzymes in the bacterial cell wall

Question 73

Correct

Mark 1.0 out of 1.0

A patient taking antiretroviral for HIV infection develops severe hyperlipidemia. Which antiviral drug is most likely responsible for this side effect?

- A. Lopinavir
- B. Dolutegravir
- C. Emtricitabine
- D. Lamivudine



Your answer is correct.

The correct answer is:

Lopinavir



Question 74

Correct

Mark 1.0 out of 1.0

A 35-year-old woman complains of itching in the vulval area. The examination of the urine reveals trichomonads.

What is the preferred treatment for trichomoniasis?

- A. Doxycycline
- B. Emetine
- C. Metronidazole
- D. Pentamidine



Your answer is correct.

The correct answer is:
Metronidazole

Question 75

Correct

Mark 1.0 out of 1.0

Which class of oral anti-diabetic drugs is known for its potential risk of lactic acidosis?

- A. Alpha-glucosidase Inhibitors
- B. Biguanides
- C. Meglitinides
- D. Thiazolidinediones



Your answer is correct.

The correct answer is:
Biguanides

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