

Question Paper with Final (Revised)
Answer Key for the Post of

**Drug Inspector
(H&FW)**

**held on 11-11-
2020**

Itemcode : **DG1001**

Q1: The earliest evidence that a drug is stored in tissue is

- A** An increase in plasma protein binding.
- B** A large apparent volume of distribution (V_D).
- C** A decrease in the rate of formation of metabolites by the liver.
- D** An increase in the number of side effects produced by the drug.

Correct Ans: **B**

Itemcode : **DG1002**

Q2: The renal clearance of inulin is used as a measurement of

- A** Rate of renal drug excretion.
- B** Intrinsic enzyme activity.
- C** Active renal secretion.
- D** Glomerular Filtration Rate (GFR).

Correct Ans: **D**

Itemcode : **DG1003**

Q3: All of the following classes of drugs are used to treat hypertension except

- A** Aryloxypropanolamines.
- B** thiazides.
- C** fibrates.
- D** dihydropyridines.

Correct Ans: **C**

Itemcode : **DG1004**

Q4: Which of the following drugs is considered to be the agent of choice for anaphylactic reactions?

- A** Clonidine
- B** Isoproterenol
- C** Epinephrine
- D** Phenylephrine

Correct Ans: **C**

Itemcode : **DG1005**

Q5: Opioids are used as all of the following agents except

- A** Antitussives.
- B** Analgesics.
- C** Anti-inflammatory.
- D** Antidiarrheals.

Correct Ans: **C**

Itemcode : **DG1006**

Q6: Which agent is most likely being used to treat his schizophrenic psychosis?

A clozapine
B fluoxetine
C buspirone
D risperidone
Correct Ans: A

Itemcode : DG1007
Q7: The termination of heparin activity by protamine sulfate is the result of
A A chelating action.
B The inhibition of gastrointestinal absorption of heparin.
C The displacement of heparin-plasma protein binding.
D An acid-base neutralization.
Correct Ans: D

Itemcode : DG1008
Q8: Cardiac glycosides may be useful in treating all of the following conditions except
A Atrial flutter.
B Paroxysmal atrial tachycardia.
C Congestive heart failure.
D Ventricular tachycardia.
Correct Ans: D

Itemcode : DG1009
Q9: Which of the following classes of compounds stimulate the release of insulin from pancreatic β cells?
A Biguanides
B α -Glucosidase inhibitors
C Sulfonylureas
D None of the above
Correct Ans: C

Itemcode : DG1010
Q10: The selective cyclooxygenase (COX) 2 inhibitors have been associated with which of the following adverse drug reactions?
A Severe ischemic colitis
B torsade des pointes
C Cardiovascular thrombotic events
D Acute liver failure
Correct Ans: C

Itemcode : DG1011
Q11: The schedule related to GMP for pharmaceutical products in Drugs and Cosmetics Act is
A Schedule L1
B Schedule Y
C Schedule M

D Schedule P

Correct Ans: C

Itemcode : DG1012

Q12: p-nitro benzoic acid is used as the starting material for the synthesis of

A Procaine

B Barbitone

C Imipramine

D Amitryptiline

Correct Ans: A

Itemcode : DG1013

Q13: The commonly accepted organic additives to local anesthetics to improve the duration of activity are:

A Skin penetration enhancers

B Vasoconstrictors

C Vasodialtors

D Antihistamines

Correct Ans: B

Itemcode : DG1014

Q14: The following is a selective PDE3 inhibitor

A Cilostozol

B Zafirlukast

C Rolipram

D Sildenafil

Correct Ans: A

Itemcode : DG1015

Q15: Guidelines for permission to import or manufacture of drugs for sale or to undertake clinical trials are laid down in the following schedule of Drugs and Cosmetics Act

A Schedule L1

B Schedule P

C Schedule Y

D Schedule H

Correct Ans: C

Itemcode : DG1016

Q16: In a patient weighing 70 kg, acetaminophen has a Vd of 70 L and C_L of 350 mL/min. The elimination half life of drug is approximately

A 35 min

B 70 min

C 140 min

D 280 min

Correct Ans: C

Itemcode : DG1017

Q17: Urination in the human subject is decreased by

- A Acetyl choline
- B Benztropine
- C Nicotine
- D Phytostigmine

Correct Ans: **B**

Itemcode : **DG1018**

Q18: Which of the following drugs is most likely to cause severe symptoms of depression when used in treating hypertensive patients?

- A Reserpine
- B Prazocin
- C Nifedipine
- D Captopril

Correct Ans: **A**

Itemcode : **DG1019**

Q19: The prohibition of misbranded advertisement related to drugs falls under the following act

- A Opium Act 1878
- B Drugs and Magic Remedies Act 1954
- C Dangerous Drugs Act 1930
- D Essential Commodities Act, 1955

Correct Ans: **B**

Itemcode : **DG1020**

Q20: Lorazepam can be used as pre anesthetic medication in patients undergoing liver transplantation because the drug is

- A Excreted in unchanged form
- B Actively secreted into GI tract
- C conjugated/metabolized extrahepatically
- D None of the above

Correct Ans: **C**

Itemcode : **DG1021**

Q21: High level of resistance of *M.tuberculosis* to Isoniazid (INH) involves

- A Decreased intracellular accumulation of drug
- B Reduced expression of gene that encodes catalase
- C Inactivation of drug
- D Increased synthesis of mycolic acids

Correct Ans: **B**

Itemcode : **DG1022**

Q22: Phenobarbitone belongs to the class of

- A Schedule X
- B Schedule R
- C Schedule O

D Schedule Y

Correct Ans: A

Itemcode : DG1023

Q23: Which of the following drugs used in Rheumatoid Arthritis has a mechanism of decreasing Tumor Necrosis Factor?

A Etanercept

B Sulfasalazine

C Rofecoxib

D Pencillamine

Correct Ans: A

Itemcode : DG1024

Q24: The following schedule deals with the life period of drugs:

A Schedule L1

B Schedule R

C Schedule P

D Schedule Y

Correct Ans: C

Itemcode : DG1025

Q25: The most likely drug to be effective in diseases caused by cestodes and trematodes is

A Chloroquine

B Mebendazole

C Metronidazole

D Praziquantel

Correct Ans: D

Itemcode : DG1026

Q26: The following acts as antifatulent in the preparation of antacids

A Selenium sulphide

B Simethicone

C sugar

D Methyl paraben

Correct Ans: B

Itemcode : DG1027

Q27: The following schedule refers to diseases or ailments for which a drug may not purport to prevent or cure:

A Schedule G

B Schedule R

C Schedule J

D Schedule X

Correct Ans: C

Itemcode : DG1028

Q28: Precaution advisable when using lovastatin include

A Serum transaminase measurements
B Renal function tests
C Acoustic measurements
D Complete blood picture every month
Correct Ans: A

Itemcode : DG1029
Q29: Government opium factory is situated at
A Delhi
B Bombay
C Kasaouli
D Neemuch
Correct Ans: D

Itemcode : DG1030
Q30: The Ayurvedic and Unani poisons are listed in the following schedule
A Schedule E1
B Schedule F&F1
C Schedule G
D Schedule Y
Correct Ans: A

Itemcode : DG1031
Q31: The oral liquid preparation specified in schedule X can be marketed in packing not exceeding:
A 100 ml
B 300 ml
C 25 ml
D 5 ml
Correct Ans: B

Itemcode : DG1032
Q32: Carbimazole is
A An antithyroid drug
B An antiepileptic drug
C A coagulant
D An antihypertensive drug
Correct Ans: A

Itemcode : DG1033
Q33: Neostigmine bromide is indicated primarily in the treatment of
A Rheumatoid Arthritis
B Myasthenia gravis
C Convulsions
D Brain stroke

Correct Ans: **B**

Itemcode : **DG1034**

Q34: Schedule 'S' of the Drugs and Cosmetics Act, 1940 refers to:

- A** Requirement of factory premises
- B** List of poisons
- C** Life period of drugs
- D** Standard for cosmetics

Correct Ans: **D**

Itemcode : **DG1035**

Q35: The absorption rate constant is calculated by:

- A** Rate of excretion method
- B** Wagner Nelson method
- C** Michaelis Menten equation
- D** Sigma Minus plot

Correct Ans: **B**

Itemcode : **DG1036**

Q36: The loading dose (D_L) of a drug is usually based on the

- A** Total body clearance (Cl_T) of the drug.
- B** Percentage of drug bound to plasma proteins.
- C** Fraction of drug excreted unchanged in the urine.
- D** Apparent volume of distribution (V_D) and desired drug concentration in plasma.

Correct Ans: **D**

Itemcode : **DG1037**

Q37: Finasteride is approved for use in male pattern baldness and it acts as

- A** Activator of estrogen receptors
- B** Inhibitor of 5-alpha reductase
- C** An aromatase inhibitor
- D** An androgen receptor antagonist

Correct Ans: **B**

Itemcode : **DG1038**

Q38: Which of the following drugs inhibits HMGCoA reductase?

- A** Probucof
- B** Lovastatin
- C** Cofibrate
- D** Gemfibrozil

Correct Ans: **B**

Itemcode : **DG1039**

Q39: Which of the following drugs acts as antihypertensive agent primarily by reduction of peripheral vascular resistance?

A Diltiazem
B Clonidine
C Verapamil
D Amlodipine
Correct Ans: D

Itemcode : DG1040
Q40: ACE inhibitors are associated with high incidence of which of the following adverse reactions?
A Hepatitis
B Hypokalemia
C Agranulocytosis
D Proteinuria
Correct Ans: D

Itemcode : DG1041
Q41: If digoxin has a half life of 35 hrs how long will it take for a toxic plasma concentration of 8ng/ml to decline to a therapeutic concentration of 2ng/ml?
A 17.5 hrs
B 70 hrs
C 105 hrs
D 140 hrs
Correct Ans: B

Itemcode : DG1042
Q42: The initial distribution of a drug into tissue is determined chiefly by the
A Rate of blood flow to the tissue
B Stomach emptying time
C Affinity of the drug to the tissue
D Plasma protein binding of the drug.
Correct Ans: A

Itemcode : DG1043
Q43: For which of the following product, measuring plasma concentration is not appropriate for estimating bioequivalence?
A Enteric coated tablet containing NSAID
B Suspension formulation containing analgesics
C Metered dose inhalers containing a bronchodilator
D Sustained release tablet antihypertensive drug.
Correct Ans: C

Itemcode : DG1044
Q44: Which of the following compounded sterile product should not be prepared in a horizontal laminar flow hood?
A Total Parenteral Nutrition
B Dopamine
C Cisplatin

D Nitroglycerin

Correct Ans: C

Itemcode : **DG1045**

Q45: Ezetimibe reduces cholesterol levels by

A Inhibiting HMGCoA Reductase

B Blocking or inhibiting intestinal absorption of cholesterol

C Removes cholesterol from blood and stores in adipose tissue

D Inducing lipoprotein lipase

Correct Ans: B

Itemcode : **DG1046**

Q46: Amodiaquine, an antimalarial drug is synthesized from

A Aniline

B Anisole

C Paracetamol

D para nitrophenol

Correct Ans: C

Itemcode : **DG1047**

Q47: The clearance of a I.V bolus injection in a patient weighing 50 kg is 4.9 liters and elimination rate constant is 0.5 hrs. The volume of distribution per kg of patient is

A 9.8 liters

B 98 liters

C 0.196 liters

D 0.98 liters

Correct Ans: C

Itemcode : **DG1048**

Q48: Cytarabine is a natural analogue of

A 4-dihydrocytidine

B 4-deoxycytidine

C 2-deoxycytidine

D 2-dihydrocytidine

Correct Ans: C

Itemcode : **DG1049**

Q49: The presence of electron withdrawing group on which position of phenothiazine is essential for its activity?

A Second

B Third

C Fifth

D Tenth

Correct Ans: A

Itemcode : **DG1050**

Q50: The elimination rate constant of a drug by I.V bolus is 0.25 hrs. What is the half life of the drug?

A	27.22 hrs
B	2.772 hrs
C	0.2772 hrs
D	2.772 min
Correct Ans: B	

Itemcode : DG1051	
Q51: Chloroquine is prepared by condensing 4,7-dichloroquinoline with the following in phenol solution.	
A	Pentamine
B	4 amino-1diethylaminopentane
C	Diethylamine
D	Hexamine
Correct Ans: B	

Itemcode : DG1052	
Q52: Which of the following solvent is not used in IR Spectroscopy?	
A	CCl ₄
B	CS ₂
C	CHCl ₃
D	H ₂ O
Correct Ans: D	

Itemcode : DG1053	
Q53: Drug of choice for filariasis is	
A	Tinidazole
B	Piperazine
C	Diethylcarbamazine
D	Metronidazole
Correct Ans: C	

Itemcode : DG1054	
Q54: Which of the following solvents has least eluting power?	
A	Cyclohexane
B	Ethyl ether
C	Carbon tetrachloride
D	n-propanol
Correct Ans: A	

Itemcode : DG1055	
Q55: The following is a potent inhibitor of CYP 450 enzymes	
A	Cimetidine
B	Carbamazepine
C	Phenytoin

D Phenobarbitone

Correct Ans: A

Itemcode : **DG1056**

Q56: The standards for mechanical contraceptives are given in

A Schedule R

B Schedule S

C Schedule T

D Schedule U

Correct Ans: A

Itemcode : **DG1057**

Q57: Benzidine test is used to detect

A Glucose in urine

B Blood in the urine

C Albumin in serum

D Uric acid in urine

Correct Ans: B

Itemcode : **DG1058**

Q58: What is the most commonly used mulling agent in IR Spectroscopy?

A CHCl_3

B Nuzol

C Butadiene

D Chlorohexane

Correct Ans: B

Itemcode : **DG1059**

Q59: The overdose of atropine can be treated with

A Deferoxamine

B Physostigmine

C Pralidoxime

D Vitamin C

Correct Ans: B

Itemcode : **DG1060**

Q60: The most important muscle useful for respiration is

A Deltoid Muscle

B Intercostal Muscle

C Pectoralis major

D Biceps

Correct Ans: B

Itemcode : **DG1061**

Q61: Diacetyl morphine is

A Codeine
B Apomorphine
C Heroin
D Oxymorphone
Correct Ans: C

Itemcode : DG1062
Q62: The commonly used combination of preservatives for ophthalmic use is
A Chlorobutanol and EDTA
B Benzalkonium chloride and EDTA
C Methy and propyl paraben
D m-chlorocresol and methyl paraben
Correct Ans: B

Itemcode : DG1063
Q63: The colligative properties of a solution are related to the following
A Number of ions present in the solution
B Number of solute particles
C pH of the solution
D Density of the solution
Correct Ans: B

Itemcode : DG1064
Q64: The following heterocyclic ring is present in mepacrine, an anti malarial drug
A Pteridine
B Phenothiazine
C Acridine
D Phthalazine
Correct Ans: C

Itemcode : DG1065
Q65: Mebendazole, an antigradial agent, is a derivative of
A Indoline
B Benzimidazole
C Indole acetic acid
D Quinoline
Correct Ans: B

Itemcode : DG1066
Q66: Tranexemic acid is a
A Coagulant
B Anti coagulant
C Anti fibrinolytic
D All of the above

Correct Ans: **C**

Itemcode : **DG1067**

Q67: Caffeine is chemically

- A** 2,4,7-trimethyl xanthine
- B** 1,3,7-trimethyl xanthine
- C** 2,4,8-trimethyl xanthine
- D** 1,3,8-trimethyl xanthine

Correct Ans: **B**

Itemcode : **DG1068**

Q68: Dragendroff's reagent used for testing alkaloids is a solution of

- A** Potassium mercuric chloride
- B** Silver Nitrate
- C** Potassium bismuth iodide
- D** Sodium Chloride

Correct Ans: **C**

Itemcode : **DG1069**

Q69: Prazosin is pharmacologically

- A** A Peripheral α_1 -adrenergic blocker
- B** An Activator of α_2 receptors
- C** A Beta blocker
- D** An angiotensi II type I receptor antagonist

Correct Ans: **A**

Itemcode : **DG1070**

Q70: Which anticonvulsant drug requires therapeutic monitoring of Phenobarbital serum levels as well as its own serum level?

- A** Phenytoin
- B** Primidone
- C** Clonazepam
- D** Ethotoin

Correct Ans: **B**

Itemcode : **DG1071**

Q71: The following is indicated as an adjunct to carbidopa/levodopa therapy:

- A** Bromocriptine
- B** Amantadine
- C** Tolcapone
- D** Pramipexole

Correct Ans: **C**

Itemcode : **DG1072**

Q72:

Which of the following disease modifying antirheumatic drugs can be administered orally?

- A Anakinra
- B Abatacept
- C Leflunomide
- D Etanercept

Correct Ans: C

Itemcode : **DG1073**

Q73: For manufacturing of drugs other than those specified in schedule c and c1 and X, the licence is issued in the prescribed form no

- A 25 A
- B 25 B
- C 25
- D 25 F

Correct Ans: C

Itemcode : **DG1074**

Q74: The antihypertensive drug that alters central sympathetic nervous system is

- A Propranolol
- B Clonidine
- C Nitroprusside
- D Captopril

Correct Ans: B

Itemcode : **DG1075**

Q75: Potentiometric analysis is possible to estimate drugs that have

- A Chromophore group
- B Oxidation-reduction potential
- C Azo group only
- D Basic character

Correct Ans: B

Itemcode : **DG1076**

Q76: The Drug Technical Advisory Board is reconstituted in every

- A 5 years
- B 2 years
- C 3 years
- D 4 years

Correct Ans: C

Itemcode : **DG1077**

Q77: The HLB range for w/o emulsifying agent is

- A 1-5
- B 8-16
- C 3-8

D 10-14
Correct Ans: C

Itemcode : **DG1078**
Q78: The following preservative is used in the simple syrup I.P
A Methyl Paraben
B Phenyl mercuric nitrate
C Benzalkonium Chloride
D None of the above
Correct Ans: D

Itemcode : **DG1079**
Q79: Acetaminophen toxicity is characterized by
A Profound vasoconstriction and pain.
B Severe abdominal cramping and diarrhea.
C Central nervous system stimulation and seizures.
D Profound liver damage and failure
Correct Ans: D

Itemcode : **DG1080**
Q80: The following insulin preparation has longest duration of action
A Semilente
B Protamine zinc
C Lente
D Isophane
Correct Ans: B

Itemcode : **DG1081**
Q81: Which district of Himachal Pradesh has the highest density of population (2011 census)?
A Bilaspur
B Una
C Hamirpur
D Solan
Correct Ans: C

Itemcode : **DG1082**
Q82: According to 2010-11 agriculture census which district of Himachal Pradesh has the highest number of operational holdings?
A Mandi
B Kangra
C Shimla
D Una
Correct Ans: B

Itemcode : **DG1083**
Q83: According to 2011 census which district of Himachal Pradesh has the highest rural literacy rate?

A Una
B Kangra
C Hamirpur
D Mandi
Correct Ans: C

Itemcode : DG1084
Q84: Which district of Himachal Pradesh has the highest number of Muslims (2011 census)?
A Chamba
B Bilaspur
C Sirmour
D Shimla
Correct Ans: C

Itemcode : DG1085
Q85: In which District of Himachal Pradesh is Kheerganga?
A Shimla
B Kullu
C Chamba
D Solan
Correct Ans: B

Itemcode : DG1086
Q86: Near which town of Mandi District of Himachal Pradesh is Kalasar lake?
A Pandoh
B Chauntra
C Rewalsar
D Karsog
Correct Ans: C

Itemcode : DG1087
Q87: In which district of Himachal Pradesh is Khokhan sanctuary?
A Mandi
B Kullu
C Chamba
D Una
Correct Ans: B

Itemcode : DG1088
Q88: Taleru Sports complex is situated in _____ district of Himachal Pradesh.
A Bilaspur
B Chamba
C Mandi
D Solan

Correct Ans: **B**

Itemcode : **DG1089**

Q89: To which region of Himachal Pradesh did Satya Dev Bushahri belong?

- A** Kumarsain
- B** Rohru
- C** Jubbal
- D** Chopal

Correct Ans: **B**

Itemcode : **DG1090**

Q90: Whose autobiography is titled **Looking Back**?

- A** Narain Chand Prashar
- B** Mohan Lal Aukta
- C** Mehar Chand Mahajan
- D** Kultar Chand Rana

Correct Ans: **C**

Itemcode : **DG1091**

Q91: Where is Indian Military Academy (IMA) located?

- A** Bengaluru
- B** Dehradun
- C** Kharagvasla
- D** Kochi

Correct Ans: **B**

Itemcode : **DG1092**

Q92: When was Rashtriya Madhyamic Shiksha Abhiyan launched?

- A** 2007
- B** 2008
- C** 2009
- D** 2010

Correct Ans: **C**

Itemcode : **DG1093**

Q93: When did the new Bureau of Indian Standards Act come into force?

- A** 2014
- B** 2015
- C** 2016
- D** 2017

Correct Ans: **D**

Itemcode : **DG1094**

Q94: Adolescent girls of which age group are covered under Kishori Shakti Yojna?

- A** 9 to 16

B 10 to 17

C 11 to 18

D 12 to 20

Correct Ans: **C**

Itemcode : **DG1095**

Q95: Who headed the committee that recommended the de-regulation of sugar sector in India around 2013-14?

A C. Rangarajan

B Raghuram Rajan

C C. Rangaswami

D None of the above

Correct Ans: **A**

Itemcode : **DG1096**

Q96: Around which year was declaration of independence adopted by the U.S. Continental Congress in Philadelphia?

A 1776

B 1789

C 1805

D 1809

Correct Ans: **A**

Itemcode : **DG1097**

Q97: What is the capital of Peru?

A Lima

B Warsaw

C Manila

D Doha

Correct Ans: **A**

Itemcode : **DG1098**

Q98: With which game is Cristiano Ronaldo associated?

A Hockey

B Cricket

C Tennis

D Football

Correct Ans: **D**

Itemcode : **DG1099**

Q99: Earth Day is observed on April _____.

A 12

B 17

C 22

D 30

Correct Ans: **C**

Itemcode : **DG1100**

Q100: Which city of the world is known as the Windy City?

A Chicago

B London

C Washington

D Paris

Correct Ans: **A**



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