CBRT - 2020
Question Paper Grid

Menu


## Drugs Inspector

## Itemcode : DN1046

Q1: Punishment for illegal possession in small quantity for personal consumption of cocaine, morphine, diacetyl-morphine or any other narcotic drug or any psychotropic substance as may be specified in this behalf by the Central Government, by notification in the Official Gazette is
(a) Imprisonment for a term which may extend to one year or with fine or with both.
(b) Imprisonment for a term which may extend to three years or with fine or with both.
(c) Rigorous imprisonment for a term which shall not be less than ten years but which may extend to twenty years and shall also be liable to fine which shall not be less than one lakh rupees but which may extend to two lakh rupees.
(d) Rigorous imprisonment for a term which may extend to ten years and shall also be liable to fine which may extend to one lakh rupees.
Key: A

## Itemcode : DN1047

Q2 : Retail price of a formulation can be calculated using the formula:
(a) R.P = (M.C. - C.C. + P.M. + P.C. $) \times(1+$ MAPE/100) + E.D.
(b) R.P $=($ M.C. + C.C. - P.M. + P.C. $) \times(1+$ MAPE/100 $)+$ E.D.
(c) R.P = (M.C. + C.C. + P.M. - P.C. $) \times(1+M A P E / 100)+$ E.D.
(d) R.P $=($ M.C. + C.C. + P.M. + P.C. $) \times(1+$ MAPE/100 $)+$ E.D.

Key: D

## Itemcode : DN1048

Q3 : As per Drugs and Cosmetics Act Prescription Drugs are included in
(a) Schedule C
(b) Schedule H
(c) Schedule P
(d) Schedule X

Key: B

## Itemcode : DN1049

Q4: Schedule W to the Drug Rules refers to
(a) List of prescription drugs
(b) List of drugs which are to be marketed under generic names only
(c) List of drugs exempted from import of drugs
(d) Standards for patent or proprietary medicines

Key: B

## Itemcode : DN1050

Q5 : The list of narcotic drugs and psychotropic substances that are prohibited from import into and export from India is found in
(a) Schedule I
(b) Schedule II
(c) Schedule III
(d) Schedule IV

Key: A

## Itemcode : DN1051

Q6: Form 2, under Schedule A refers to
(a) Memorandum to the Central Drugs Laboratory.
(b) Application for licence to import drugs specified in Schedule $X$ to the drugs and Cosmetics Rules 1945.
(c) Form of undertaking to accompany an application for an import licence.
(d) Certificate of test or analysis by the Central Drugs Laboratory.

Key: D

## Itemcode : DN1052

Q7: Schedule L1 refers to
(a) Good manufacturing practices
(b) Good laboratory practices
(c) GMP-Homeo medicines
(d) Factory medical devices

Key: B

## Itemcode : DN1053

Q8: Cultivation of poppy seeds is taken only in the areas notified by the Central government in three states of
(a) Rajasthan, Gujarat and Uttar Pradesh.
(b) Rajasthan, Madhya Pradesh and Uttar Pradesh.
(c) Rajasthan, Himachal Pradesh and Uttar Pradesh.
(d) Rajasthan, West Bengal and Uttar Pradesh.

Key: B

## Itemcode : DN1054

Q9 : As per DPCO 2013, MRP of a scheduled formulation is " ceiling price + Local Taxes applicable " whereas the MRP for a new drug will be
(a) Retail price fixed by Manufacturer + Local Taxes applicable
(b) Retail price fixed by Govt + Local Taxes applicable
(c) Retail price fixed by Distributor + Local Taxes applicable
(d) Retail price fixed by Retailer + Local Taxes applicable

Key: B

## Itemcode : DN1055

Q10 Drugs are declared as essential, and accordingly put under "Essential Commodities Act" by Ministry of Chemicals and : Fertilizers through
(a) Narcotic and Psychotropic Substances Act 1985
(b) Drugs Price Control Order 2013
(c) Drugs and Magic Remedies Act 1954a
(d) Drugs \& Cosmetics Act 1940

Key: B

## Itemcode : DN1056

Q11 Which of the following is a true statement?
:
(a) The minimum air changes for Grade $B$ and $C$ areas shall be not less than 10 air changes per hour having appropriate HEPA filters.
(b) The minimum air changes for Grade $B$ and $C$ areas shall be not less than 20 air changes per hour having appropriate HEPA filters.
(c) The minimum air changes for Grade $B$ and $C$ areas shall be not less than 30 air changes per hour having appropriate HEPA filters.
(d) The minimum air changes for Grade B and C areas shall be not less than 40 air changes per hour having appropriate HEPA filters
Key: B

## Itemcode : DN1057

Q12 Which among the following is a 'Random Error'?
:
(a) Instrumental Error
(b) Erratic Error
(c) Methodic Error
(d) Proportional error

Key: B

## Itemcode: DN1058

Q13 The dose given to reduce the time required for onset of the full therapeuatic effect of a drug is called
:
(a) Priming dose
(b) Maintenance dose
(c) Overnight dose
(d) Paediatric dose

Key: A

## Itemcode : DN1059

Q14 Calibration of instrument is an important consideration in measurement system. The errors due to instruments being : out of calibration can be rectified by
(a) Increasing the frequency of recalibration
(b) Increasing the temperature coefficient
(c) Increasing the susceptibility of measuring instrument
(d) Decreasing the frequency of recalibration

Key: A

## Itemcode : DN1060

Q15 The production or introduction of a new thing for the first time by exercising one's own mind, skill and labour is known :
(a) Trademark
(b) Patent
(c) Invention
(d) Copyright

Key: C

## Itemcode : DN1061

Q16 Microspheres are spherical particles ranging
:
(a) 10-1000 nm
(b) $1-1000 \mathrm{~nm}$
(c) $1-5000 \mathrm{~nm}$
(d) $1-200 \mathrm{~nm}$

Key: B

## Itemcode : DN1062

Q17 Frequency of pH meter calibration is-
:
(a) Only once after replacement of glass electrode
(b) Once a week
(c) Once a day
(d) Every time on usage

Key: C

## Itemcode : DN1063

Q18 The error between mean of finite data set and mean of infinite data set is known as
:
(a) True error of the mean
(b) Standard error of the mean
(c) Finite error
(d) Infinite error

Key: B

## Itemcode : DN1064

Q19 Microbial challenge test to demonstrate the capability of a filter is carried out by using
:
(a) Pseudomonas aeruginosa
(b) Streptomyces Actinomyces
(c) Bacillus anthracis
(d) Pseudomonas diminuta

Key: D

## Itemcode : DN1065

Q20 Which equation is used to predict the stability of the drug at room temperature from experiments at increased : temperature?
(a) Michaelis-Menten equation
(b) Arrhenuis equation
(c) Henderson-Hasselbelch equation
(d) Noyes-Whitney equation

Key: B

## Itemcode : DN1066

Q21 Which of the following criteria is suitable for selecting a drug for controlled release dosage form?
:
(a) Drugs with an elimination half life of $<2$ hours.
(b) Drugs with a dose of $<100 \mathrm{mg}$.
(c) Drugs that are administered in large doses.
(d) Highly potent drugs.

Key: B

## Itemcode : DN1067

Q22 Class II drugs have
:
(a) High solubility and high permeability.
(b) Low solubility and high permeability.
(c) High solubility and low permeability.
(d) Low solubility and low permeability.

Key: B

## Itemcode : DN1068

Q23 Transportation of dry bulk materials through a pipeline by negative or positive pressure air stream is called :
(a) Belt Conveyer
(b) Chain Conveyer
(c) Roller Conveyer
(d) Pneumatic Conveyer

Key: D

Q24 Responsibilities of the quality unit(s) would not involve in:
:
(a) Releasing or rejecting all APIs
(b) Evaluating proposed changes in process
(c) Internal audits (self-inspection)
(d) Analysis of raw materials

Key: B

## Itemcode: DN1070

Q25 In a chromatogram, the equation ( $\mathrm{Vr}-\mathrm{Vo}$ ) / Vo is used to express-
:
(a) Capacity factor
(b) Resolution factor
(c) Symmetry factor
(d) Plate factor

Key: A

## Itemcode : DN1071

Q26 Indian Pharmacopoeia specifies that the water for injection shall have endotoxin levels of not more than :
(a) $0.15 \mathrm{EU} / \mathrm{ml}$
(b) $0.20 \mathrm{EU} / \mathrm{ml}$
(c) $0.25 \mathrm{EU} / \mathrm{ml}$
(d) $0.30 \mathrm{EU} / \mathrm{ml}$

Key: C

## Itemcode : DN1072

Q27 Bioavailability of a drug from various dosage forms decreases in the following order:
:
(a) tablets $>$ capsules $>$ solutions $>$ emulsions $>$ suspensions.
(b) tablets>capsules $\gg$ emulsions $>$ suspensions $>$ solutions
(c) tablets $>$ solutions $>$ emulsions $>$ suspensions $>$ capsules.
(d) Solutions $>$ emulsions $>$ suspensions $>$ capsules $>$ tablets.

Key: D

## Itemcode: DN1073

Q28 Which of the following routes of administration is not parenteral?
:
(a) SQ
(b) SL
(c) IC
(d) IV

Key: B

## Itemcode : DN1074

Q29 Other than tablet hardness, which method is used to measure the tablet strength?
:
(a) Thickness
(b) Weight Variation
(c) Friability
(d) Organoleptic Properties

Key: C

## Itemcode : DN1075

Q30 Diclofenac tablet coated with cellulose acetate phthalate administered to a patient will release the drug in :
(a) Stomach
(b) Oral cavity
(c) Small intestine
(d) Liver

Key: C

## Itemcode : DN1001

Q31 Saurology is the study of $\qquad$ .
:
(a) Mosquitoes
(b) Snake
(c) Lizards
(d) Cockroach

Key: C

## Itemcode: DN1002

Q32 Which of the following river does not flow into the Arabian Sea?
:
(a) Tungabhadra
(b) Sabarmati

## Itemcode : DN1003

Q33 Garo Hills is a part of which among the following states of India?
:
(a) Nagaland
(b) Meghalaya
(c) Manipur
(d) Mizoram

Key: B

## Itemcode: DN1004

Q34 The Sangai Festival is celebrated in __:
:
(a) Assam
(b) Manipur
(c) Mizoram
(d) Nagaland

Key: B

## Itemcode : DN1005

Q35 Human Rights Day is celebrated on which of the following day?
:
(a) 5th December
(b) 6th December
(c) 12th December
(d) 10th December

Key: D

Itemcode : DN1006
Q36 Who secured second rank in the recent, ICC women's cricket ratings?
:
(a) Mithali Raj
(b) Radha Yadav
(c) Smriti Mandhana
(d) Harmanpreet Kaur

Key: B

## Itemcode : DN1007

Q37 India's first maritime museum is to be established at which of the following sites?
:
(a) Navinal
(b) Amri
(c) Lothal
(d) Bet Dwarka

Key: C

## Itemcode: DN1008

Q38 The National Chemical Laboratory is situated in
:
(a) Delhi
(b) Mumbai
(c) Pune
(d) Hyderabad

Key: C

## Itemcode : DN1009

Q39 Who from the following won the Nobel Prize for Economic Sciences in 2017?
:
(a) Michael Rosbash
(b) Jefferey Hall
(c) Richard Thaler
(d) Barry Barish

Key: C

## Itemcode : DN1010

Q40 Which of the following countries was recently declared as Polio free by WHO?
:
(a) Nigeria
(b) Somalia
(c) Pakistan
(d) Afghanistan

Key: B

Itemcode : DN1021
Q41 A clock loses 5 minutes every hour and was set right at 11AM on a Monday. When will it show the correct time again? :
(a) 11AM on Sunday
(b) 11 AM on Monday
(c) 11AM on Tuesday
(d) 11AM on Wednesday

Key: A

## Itemcode : DN1022

Q42 Find out missing figure (?) of the problem from the given answer figures.
: Problem Figures


Answer Figures

(a) 1
(b) 2
(c) 3
(d) 4

Key: C

## Itemcode : DN1023

Q43 Introducing a girl, a boy said, "She is the daughter of the mother of the daughter of my aunt." How is the girl related to : the boy?
(a) Cousin
(b) Niece
(c) Daughter
(d) Aunt

Key: A

| Itemcode : DN1024 |
| :--- |
| Q44 Pick the odd one out. |
| $:$ |
| (a) May : January |
| (b) September : November |
| (c) October: April |
| (d) January : December |
| Key: C |

Itemcode : DN1025
Q45 Pick the odd one out.
:
(a) 19:380
(b) $15: 240$
(c) $25: 650$
(d) $10: 100$

Key: D

## Itemcode : DN1026

Q46 In a coded message, SLOW MOVE, GET BACKWARDS, FIRE AWAY is written as VFMD ZMWE, BEN PCTLDCOXU, QHOE : CDCI.

Based on this coding scheme, spot the codes for following word
SALTY
(a) UCFNI
(b) UCFIN
(c) UCINF
(d) UCHIN

Key: A

## Itemcode : DN1027

Q47 In a code language MOBILE is written as ASDFGH, STORK is written as PLSQW. How is MOTORBIKE written in that
: code?
(a) ASLSQDFWH
(b) ASLSQDHWH
(c) ASLSGHQDW
(d) ASLSASFWH

Key: A

## Itemcode : DN1028

Q48 Prajakta moves towards South-East a distance of 70 km , then she moves towards West and travels a distance of 140 : $\quad \mathrm{km}$.From here she moves towards North-West a distance of 70 km and finally she moves a distance of 40 km towards east.

How far is she now from the starting point?
(a) 10 km
(b) 20 km
(c) 30 km
(d) 40 km

Key: A

## Itemcode : DN1029

Q49 In the following question, various terms of an alphabet series are given with one or more missing terms as shown by : (?). Choose the missing term out of the given alternatives.

IJK, NOP, STU, ?
(a) $Z Y X$
(b) $X Y Z$
(c) WXY
(d) YZA

Key: B

## Itemcode : DN1030

Q50 Rahul is 15 years elder than Rohan. If 5 years ago, Rahul was 3 times as old as Rohan, then find Rahul's present age. :
(a) 32.5 years
(b) 27.5 years
(c) 25 years
(d) 24.9 years

Key: B

## Itemcode: DN1031

Q51 Pointing to a woman in a photograph a man says "She is the daughter-in-law of the mother of my father's only grand : son". How is the woman related to the man?
(a) daughter in law
(b) Wife
(c) Aunt
(d) mother

Key: A

## Itemcode: DN1032

Q52 In a certain code language, 'he was not absent' is written as 'jasifera'; 'absent case was not' is written as 'gafe je ra' : and 'no one was absent' is written as 'da gerafe'. What does 'st' stand for?
(a) was
(b) not
(c) one
(d) he

Key: D

## Itemcode : DN1033

Q53 A certain amount was distributed among six people - A, B, C, D, E and F. B received more than only A. F received more : than B. F received less than C. E received more than $C$ but he did not get the highest amount. Who among the following received less amount than C ?
(a) $A, F$
(b) $A, B$
(c) $B, F$
(d) $A, B, F$

Key: D

## Itemcode: DN1034

Q54 How many 3-digit numbers can be formed using the 4th, 7th and 9th digits of the number 937862541 each of which is : completely divisible by 7?
(a) None
(b) One
(c) Two
(d) Three

Key: C

Q55 The following sentence completion questions contains two blanks. These blanks signify that a set of words has been left : out. Below the sentence are four sets of words for each blank, pick the set of words that best reflects the sentence's overall meaning.

Studded star fish are well protected from most $\qquad$ and parasites by $\qquad$ surface whose studs are actually modified spines.
(a) dangers...vulnerable
(b) predators...an armoured
(c) threats...fragile
(d) challenges...an obtuse

Key: B

## Itemcode : DN1036

Q56 The following sentence completion questions contains two blanks. These blanks signify that a set of words has been left : out. Below the sentence are four sets of words for each blank, pick the set of words that best reflects the sentence's overall meaning.

After having worked in the soup kitchen feeding the hungry, the volunteer began to see her own good fortune as and her difference from the $\qquad$ as chance rather than destiny.
(a) an omen...homeless
(b) a fluke...impoverished
(c) a threat...destitute
(d) a reward...indigent

Key: B

## Itemcode : DN1037

Q57 Unlike the Shakespearean plays that lit up the English stage the "closet dramas" of the nineteenth century were meant : to be $\qquad$ rather than $\qquad$ .
(a) seen...acted
(b) quite...raucous
(c) sophisticated...urbane
(d) read...staged

Key: D

## Itemcode : DN1038

Q58 Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to the : group?
(a) Nickel
(b) Tungsten
(c) Platinum
(d) Diamond

Key: D

## Itemcode : DN1039

Q59 Rita Colaco, an accomplished pastry chef who is well known for her artistic and exquisite wedding cakes, opened a
: bakery one year ago and is surprised that business has been so slow. A consultant she hired to conduct market research has reported that the local population doesn't think of her shop as one they would visit on a daily basis but rather a place they'd visit if they were celebrating a special occasion. Which of the following strategies should Rita employ to increase her daily business?
(a) making coupons available that entitle the coupon holder to receive a $25 \%$ discount on wedding, anniversary, or birthday cakes
(b) exhibiting at the next Bridal Expo and having pieces of one of her wedding cakes available for tasting
(c) placing a series of ads in the local newspaper that advertise the wide array of breads, muffins, and cookies offered at her shop
(d) moving the bakery to the other side of town

Key: C

## Itemcode : DN1040

Q60 On weekends, Mr. Olav spends many hours working in his vegetable and flower gardens. Mrs. Olav spends her free time : reading and listening to classical music. Both Mr. Olav and Mrs. Olav like to cook.
(a) Mr. Olav does not like classical music
(b) Mr. Olav enjoys planting and growing vegetables.
(c) Mrs. Olav cooks the vegetables that Mr. Olav grows.
(d) Mrs. Olav enjoys reading nineteenth century novels.

Key: B

## Itemcode : DN1041

Q61 If the product of 4 consecutive integers is equal to one of them, what is the largest possible value of one of the : integers?
(a) 24
(b) 6
(c) 4
(d) 0

Key: D

Itemcode : DN1042
Q62 For the final step in a calculation, Harry accidentally divided by 1000 instead of multiplying by 1000 . What should he do : to correct his incorrect answer?
(a) Multiply it by 1000 .
(b) Multiply it by 100,000 .
(c) Multiply it by $1,000,000$.
(d) Square it.

Key: C

## Itemcode : DN1043

Q63 H8, L12, O15, S19, ?
:
(a) U 21
(b) W23
(c) V 22
(d) Y25

Key: C

## Itemcode : DN1044

## Q64

:
What is $\boldsymbol{a}$ divided by $\boldsymbol{a} \%$ of $\boldsymbol{a}$ ?
(a) $\frac{a}{100}$
(b) $\frac{100}{a}$
(c) $\frac{a^{2}}{100}$
(d) $\frac{100}{a^{2}}$

Key: B

## Itemcode : DN1045

Q65 The following question consists of some Problem Figures followed by other figures marked 1, 2, 3, 4 called the Answer : Figures. Find out the correct answer figure that should come next in the sequence of problem figures.

(a) 1
(b) 2
(c) 3
(d) 4

Key: C

Passage:
Read the following passage and answer the questions below:

Mikhail Gorbachev's ouster, through dramatic in every respect, is on no account a surprise. Both his foes and his closest friends have been warning him of it with a heightening sense of urgency for the past several months. Its consequences, however are wholly unpredictable. The Soviet Union could well witness protracted violence on a mass scale should the reformists and republics, those which have sought varying degrees of sovereignty for themselves, choose to defy the central authority. It is possible that the country after an initial period of uncertainty, and perhaps even violence, could revert to the pre-perestroika system. Equally uncertain is the course of East-West relations. These are bound to deteriorate through the extent of deterioration must remain a matter of conjecture. Hailed abroad as a leader who had dared to free Soviet citizens from fear, who had enabled the countries of Eastern Europe to become democracies even as they regained their full sovereign status, who had paved the way for the reunification of Germany and who had exposed the moribund and totalitarian character of communism, he appeared, at home, to come under fire from all sides.

## Itemcode : DN1011

Q66 Under Gorbachev's term, the Soviet people were
:
(a) Afraid to speak
(b) Indisciplined and Iazy
(c) Committed to communism
(d) Not afraid to criticise

Key: D

## Itemcode : DN1012

Q67 The relations between the Soviet Union and Western countries
:
(a) are likely to remain unaffected
(b) may improve considerably
(c) will definitely get worse
(d) will fluctuate

Key: C

## Itemcode : DN1013

Q68 The post-Gorbachov era may witness
:
(a) A more open economy
(b) Reversal of perestroika
(c) Greater role for reformers
(d) Sovereignty for republics

Key: B

## Itemcode : DN1014

Q69 As a result of his policies, the countries of Eastern Europe became
:
(a) Democratic and truly independent
(b) Authoritarian and inhuman
(c) United and totalitarian
(d) Democratic but with a monarchy

Key: D

## Itemcode : DN1015

Q70 The removal of Mikhail Gorbachev from power is
:
(a) Thrilling and extraordinary
(b) Dramatic but expected
(c) Vivid and shocking
(d) Strange and cruel

Key: B

Passage:
Read the following passage and answer the question given below:
All cultures, even the simplest, seem to be in a continuous state of change. The earlier anthropologists, as opposed to the moderns, assumed that cultures with relatively simple technology and political structure represented only slightly modified survivors of the ancient conditions of our own ancestors and for that reason dubbed them primitive. Also, largely as a device for simplifying their own theoretical studies, they assumed that such cultures were static or nearly so, persisting unchanged over long time periods. Actually, we have plenty of evidence that this is not the case. Not only do all archaeological records, fragmentary as they are, show change though time, but wherever explorers have visited a primitive tribe at intervals of generation or more, their reports show that changes have taken place. Since there is always the possibility that these changes have been set in motion by the first explorer's visit or by contacts with other Europeans during the intervals, the archaeological evidence is more reliable. From this it appears that changes in technology are the only part of culture on which it provides conclusive evidence, were exceedingly slow during the first nine-tenths of human existence. Thousands of years have gone without the introduction of any new tool or appliance. However, during the last twenty-five or thirty thousand years, there has been a progressive speeding up of cultural change. In their operation, the process of cultural change falls into a definite sequence. The first step is the presentation to the society of a potential addition to its culture. This is followed by the new elements' acceptance or rejection. If accepted there are further processes of modification and integration by which the new elements and the pre-existing culture are brought into adjustment. Lastly, there is usually, but not always, the elimination of an older culture element, or elements where functions have been taken over by the new elements.

A potential element of culture may be invented or borrowed. In either case, the new idea or appliance originates with some individual or at work with a small series of individuals who have either pooled their ingenuity to solve a problem or contributed to improving details during the developments of the invention. There can be no invention or cultural change without an inventor. The main difference between invention and borrowing is that if the new thing originates within the setting provided by the society and its culture, we refer to it as culture borrowing, The processes of acceptance or rejection or integration will be the same, although the attitude of the receiving society towards the one in which the potential element originated may influence acceptance.

## Itemcode : DN1016

Q71 According to the passage,
:
(a) modern anthropologists are more systematic and accurate than earlier ones
(b) a relatively simple society will see progress as spasmodic, resulting from the borrowing of cultural elements
(c) the last twenty years have been societies rapidly becoming cultured
(d) cultural interaction is necessary for the cultural progress of primitive societies

Key: A

Itemcode : DN1017
Q72 According to the passage,
:
(a) foreign cultural elements are never assimilated in their original form
(b) assimilation of cultural element is partly dependent on the attitude of the borrower society to the source society
(c) the process of cultural change is usually random
(d) self-sufficient societies rely on inventions rather than cultural borrowings

Key: B

## Itemcode : DN1018

Q73 According to the author, earlier anthropologists assumed some cultures to be static because
:
(a) of insufficient interaction with them
(b) of poor or unreliable analysis
(c) it made their task of studying these cultures more simple
(d) of fragmentary archaeological evidence

Key: C

## Itemcode : DN1019

Q74 According to the passage,
:
(a) a culture with simple technologies and political structure is likely to be static
(b) explorers seem to have begun a process of change in many societies
(c) much of the culture seen today is the result of changes in the recent past
(d) all cultures seem to have continuous rates of change

Key: A

## Itemcode: DN1020

Q75 All the following are essential to the process of borrowing cultural elements, except
:
(a) the projection of a particular cultural element as attractive to and suitable for the recipient society
(b) the displacement of the cultural element performing the same task in the recipient society
(c) the modification of cultural elements to suit the recipient society
(d) the widespread acceptance of the new element within the recipient society

Key: B

