

## PROVISIONAL ANSWER KEY

Question 108/2024/OL

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Question1:-The useful part of Karkatasringi is

A:-Root

B:-Gall

C:-Seed

D:-Stem

Correct Answer:- Option-B

Question2:-Which variety of Rasna is used in South India ?

A:-Alpenia galanga

B:-Pluchea lanceolata

C:-Vanda roxburghi

D:-None

Correct Answer:- Option-A

Question3:-Evaluation of Analgesic activity is by using

A:-Brewer's Yeast

B:-Carrageenan

C:-ROS

D:-Tail-Flick test

Correct Answer:- Option-D

Question4:-Which Aflatoxin is the most toxic and causes hepatocellular carcinoma ?

A:-Aflatoxin G2

B:-Aflatoxin B2

C:-Aflatoxin G1

D:-Aflatoxin B1

Correct Answer:- Option-D

Question5:-Permissible limit of Hg in herbal drug

A:-10microgram/g

B:-5microgram/g

C:-1microgram/g

D:-3microgram/g

Correct Answer:- Option-C

Question6:-Reagent for detecting the presence of alkaloid

A:-Dragendorff's reagent

B:-Ferric chloride

C:-Millon's reagent

D:-None

Correct Answer:- Option-A

Question7:-Useful part of Isabgol is

A:-Gall

B:-Seed

C:-Flowerbud

D:-Gum

Correct Answer:- Option-B

Question8:-Bhilavanol is present in

A:-Aegle marmelos

B:-Bacopa moneri

C:-Boswellia Serrata

D:-Semecarpus anacardium

Correct Answer:- Option-D

Question9:-Drug that calms the subject without inducing sleep

A:-Sedative

B:-Hypnotic

C:-Anti anxiolytic

D:-All of the above

Correct Answer:- Option-A

Question10:-Substitute for Meda and Mehameda

A:-Vidari

B:-Aswagandha

C:-Shatavari

D:-Musali

Correct Answer:- Option-C

Question11:-Chakralakshanika is the synonym of

A:-Thrivrit

B:-Guduchi

C:-Daruharidra

D:-Yashtimadhu

Correct Answer:- Option-B

Question12:-Substitute of Valeriana wallichii

A:-Saussurea lappa

B:-Nardostachys jatamansi

C:-Baliospermum montanum

D:-Plumbago zeylanica

Correct Answer:- Option-A

Question13:-CPCSEA is a statutory committee established under chapter 4, Section 15(1) for

A:-Animal welfare board

B:-Prevention of cruelty to animals

C:-Supervision on Animal experiment

D:-Ministry of Forest

Correct Answer:- Option-C

Question14:-Which of the following is Medhya Dravya ?

A:-Hareetaki

B:-Vasa

C:-Guduchi

D:-Mustha

Correct Answer:- Option-C

Question15:-The pharmacological assay used to study CNS Depressant activity in albino rats

A:-Plethysmometer

B:-Actophotometer

C:-Eddy's hot plate

D:-None

Correct Answer:- Option-B

Question16:-Which of the following statements is correct ?

A:-MIC is the Minimum Inhibitory Concentration of the antimicrobial agent which inhibits the growth but not viability

B:-MCC is the Maximum Concentration of the drug that makes organism nonviable

C:-MIC is the Minimum Inhibitory Concentration of the drug that inhibits the growth as well as makes it nonviable

D:-None of the above

Correct Answer:- Option-A

Question17:-A per NMPB guidelines regarding GCP the season for collection of *Cyperus rotundus* is

A:-August to October

B:-February to April

C:-May to July

D:-November to January

Correct Answer:- Option-A

Question18:-As per NMPB Guideline, Season for collection of *Asparagus racemosus* (Shatawari) Root is

A:-February to April

B:-May to July

C:-August to October

D:-November to January

Correct Answer:- Option-C

Question19:-Which container is suitable for protection from light ?

A:-Air tight container

B:-Glass containers

C:-Amber coloured bottles

D:-Hermetically sealed containers

Correct Answer:- Option-C

Question20:-Adulterant of Ashoka

A:-Cassia fistula

B:-Alstonia scholaris

C:-Polyalthia longifolia

D:-Terminalia arjuna

Correct Answer:- Option-C

Question21:-Process in which water is removed from a product after it is frozen and placed under a vacuum, allowing the ice to change directly from solid to vapor without passing through a liquid phase.

A:-Freeze drying

B:-Vacuum drying

C:-Air drying

D:-Spray drying

Correct Answer:- Option-A

Question22:-According to Sarngadhara Samhitha if takra is used as drava dravya in Sneha paka the duration of paka in days is

A:-12

B:-5

C:-3

D:-2

Correct Answer:- Option-B

Question23:-Qualities of Sneha after murcchana among below are except

A:-Decrease in the Acid value

B:-Decrease in the Rancidity

C:-Decrease in Iodine and Saponification values

D:-Decrease in the Saturated acid profile

Correct Answer:- Option-C

Question24:-For extraction of thermolabile drugs which extraction process should be used ?

A:-Percolation

B:-Maceration

C:-Decoction

D:-Both A and B

Correct Answer:- Option-D

Question25:-Dragendorff's test coming under phytochemical investigation of *Kashayam* is for identification of

A:-Tannins

B:-Alkaloids

C:-Saponins

D:-Flavonoids

Correct Answer:- Option-B

Question26:-Use of ekala dravya in every chikitsa-prakarana is mentioned in

A:-Chakradatta

B:-Shrngadhara samhitha

C:-Yogarathnakara

D:-Bhaishajya rathnavali

Correct Answer:- Option-C

Question27:-Which part in the distillation apparatus represents the heat exchanger ?

A:-Adapter

B:-Still

C:-Receiver

D:-Condenser

Correct Answer:- Option-D

Question28:-Which among the following is chemical standardization of herbs

A:-Chromatography

B:-Moisture content

C:-Ash value

D:-Acid value

Correct Answer:- Option-A

Question29:-Which of the following dryer is the convectional drying equipment with enclosed insulated chambers ?

A:-Fluidized bed dryer

B:-Drum dryer

C:-Cabinet tray dryer

D:-Pneumatic dryer

Correct Answer:- Option-C

Question30:-Metal rings containing semi circular projection which are arranged as a nest to form channels on edges is seen in

A:-Meta filter

B:-Filter press

C:-Rotory drum filter

D:-Berkfield filter

Correct Answer:- Option-A

Question31:-Distillation of water immiscible liquid is

A:-Destructive distillation

B:-Steam distillation

C:-Vacuum distillation

D:-Molecular distillation

Correct Answer:- Option-B

Question32:-Conduction is used as principle of heat treatment in

A:-Fluidized bed dryer

B:-Freeze dryer

C:-Drum dryer

D:-Vacuum dryer

Correct Answer:- Option-D

Question33:-Thila Pramana agni is mentioned in

A:-Bhava prakasha

B:-Yogaratanakara

C:-Sharngadhara Samhitha

D:-Bhaishajya rathnavali

Correct Answer:- Option-C

Question34:-Which type of separator utilizes centrifugal force for size separation ?

A:-Sieve

B:-Membrane filter

C:-Cyclone separator

D:-Sintered glass filter

Correct Answer:- Option-C

Question35:-Parpati Kalpana is explained in detail in

A:-Bhaishajya rathnavali

B:-Sharngadhara Samhitha

C:-Bhava prakasha

D:-Yogaratanakara

Correct Answer:- Option-A

Question36:-Which of the following is/are correct regarding the scheme of Pharmacovigilance Program for Ayurveda, Siddha, Unani and Homeopathy Drugs launched by Ministry of Ayush;

i. Global Centre for Traditional Medicine, Jamnagar is the National Pharmacovigilance Co-ordination Centre.

ii. One of the aims of scheme is reporting instances of misleading advertisements of ASU and H drugs for regulatory actions.

iii. Hierarchy of Pharmacovigilance Program consists of a three-tier structure.

A:-Only (i and ii)

B:-Only (ii and iii)

C:-Only (iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-B

Question37:-As per Rule 158 (B) of Drugs and Cosmetics Rule, 1940, which of the following statement is NOT CORRECT regarding issue of license with respect to Aushadh Ghana (Extract of medicinal Plant) - Aqueous Category having ingredients as per text and new indication:

A:-Safety Study is not required

B:-Safety Study is required

C:-Evidence/Proof of Effectiveness is Required

D:-Published literature pertaining to evidence of effectiveness is not required

Correct Answer:- Option-B

Question38:-As per Rule 161 of D and Rules, 1945, what should be the maximum size of packing for *Mritsanjivani Sura*

A:-10 ml

B:-15 ml

C:-30 ml

D:-120 ml

Correct Answer:- Option-C

Question39:-Traditional Knowledge Digital Library (TKDL) initiated the project on Ayurveda from Kerala manuscripts in Year:

A:-2015

B:-2016

C:-2017

D:-2018

Correct Answer:- Option-D

Question40:-As per Drugs and Cosmetics Act, 1940, which of the following statement is INCORRECT in respect to ASU Drugs Technical Advisory board :

A:-Constitution of Board is given in Chapter IV-A, Section 33-C

B:-The Drugs Controller, India is and *ex-officio* member

C:-Teacher of Dravyaguna and Bhaishajya Kalpana are members

D:-The nominated members of board shall hold office for a period of 5years

Correct Answer:- Option-D

Question41:-Number of single drug monographs included in Ayurvedic Pharmacopoeia of India Part I, Volume IV are

A:-68

B:-78

C:-80

D:-92

Correct Answer:- Option-A

Question42:-If a drug is sold, or offered or exhibited for sale, under a name which belongs to another drug, then it is said as

A:-Substitution drug

B:-Misbranded drug

C:-Adulterated drug

D:-Spurious drug

Correct Answer:- Option-D

Question43:-As per D and C Rule, 1945, Schedule T, Supplementary guidelines for manufacturing of Rasaushadhies (Herbomineral compounds) of ASU medicines, the total minimum manufacturing space required is

A:-150 Sq. Ft.

B:-200 Sq. Ft.

C:-1200 Sq. Ft.



D:-1500 Sq. Ft.

Correct Answer:- Option-D

Question44:-Monograph of following drug is not included in Ayurvedic Pharmacopoeia of India, Part I, Volume VII

A:-Saindhava Lavana

B:-Samudra Lavana

C:-Jaharamohara

D:-Gomeda

Correct Answer:- Option-A

Question45:-Which of the following Guidelines is correctly paired for carrying out Acute oral ?

Toxicity studies as per OECD:

A:-Acute Toxic Class Method-Guideline 425

B:-Up-and-Down Procedure-Guideline 423

C:-Fixed Dose Procedure - Guideline 420

D:-Fixed Dose Procedure-Guideline 423

Correct Answer:- Option-C

Question46:-Which of the following statement is/are correct regarding licensing of Ayurvedic Manufacturing Unit as per D and C Rules 1945 ?

i. License to manufacture for sale of Ayurveda drugs -Form 25-D

ii. Certificate of renewal of license to manufacture for sale of Ayurveda drugs -Form 26-C

iii. Certificate of renewal of loan license to manufacture for sale of Ayurveda drugs -Form 26-E

A:-Only (i and ii)

B:-Only (ii and iii)

C:-Only (i and iii)

D:-All are correct

Correct Answer:- Option-C

Question47:-Which of the following is NOT CORRECT in relation to ASU drug Inspectors as per D and C Act, 1940 ?

A:-In relation to Ayurvedic, Siddha or Unani drugs, an Inspector is appointed by the Central Government or a State Government under Section 33G of Drugs and Cosmetics Act 1940.

B:-Qualifications of ASU Drug Inspector are enlisted in Drugs and Cosmetics Rule 49.

C:-The provisions of the Code of Criminal Procedure, 1973 shall, so far as may be, apply to any search or seizure under Chapter IV-A of D and C Act.

D:-If any person willfully obstructs an Inspector in the exercise of the powers conferred upon him, he shall be punishable with imprisonment which may extend to three years, or with fine, or with both.

Correct Answer:- Option-B

Question48:-As per Good Clinical Practice Guidelines for Clinical trials in Ayurveda, Siddha, Unani (ASU) Medicine, which of the following statement is NOT CORRECT regarding Institutional Ethics Committee

A:-One legal expert or retired judge can be one of the members

B:-One philosopher/ethicist/theologian can be one of the members

C:-Chairperson of the Committee should preferably be from within the Institution

D:-Independence and competence are the two hallmarks of an IEC

Correct Answer:- Option-C

Question49:-According to Narcotic Drugs and Psychotropic Substances Act, 1985, which of the following statement is NOT CORRECT ?

"Cannabis (hemp)" means

A:-charas, that is, the separated resin, in whatever form

B:-ganja, that is, the flowering or fruiting tops of the cannabis plant (excluding the seeds and leaves when not accompanied by the tops)

C:-any mixture, with or without any neutral material, of any of the above forms of cannabis

D:-"cannabis plant" means plant belonging only to the genus Cannabis sativa

Correct Answer:- Option-D

Question50:-Which of the following methods of inventory management for pharmacy is based on Pareto's principle ?

A:-ABC Analysis

B:-VED Analysis

C:-HML Analysis

D:-SDE Analysis

Correct Answer:- Option-A

Question51:-As per United states Pharmacopeia particle size of very fine powder

A:-All particles pass through a No. 8 sieve, and not more than 20% pass through a No. 60 sieve.

B:-All particles pass through a No. 40 sieve, and not more than 40% pass through a No. 80 sieve

C:-All particles pass through a No. 80 sieve

D:-All particles pass through a No. 60 sieve, and not more than 40% pass through a No. 100 sieve

Correct Answer:- Option-C

Question52:-Micromeritics is the study of

A:-Particle size and size distribution

B:-Shape, angle of repose, porosity and true volume

C:-Bulk volume, apparent density and bulkiness

D:-All of the above

Correct Answer:- Option-D

Question53:-The method of blending small amounts of powders by movement of spatula through them on a sheet of paper is called

A:-Trituration

B:-Sifting

C:-Tumbling

D:-Spatulation

Correct Answer:- Option-D

Question54:-An efflorescent powder is

A:-A crystalline powder that contains water of hydration or crystallization

B:-Powder that absorbs moisture from the air

C:-Powder that absorbs moisture from the air to the extent that they will partially or wholly liquefy

D:-None of the above

Correct Answer:- Option-A

Question55:-The substance which add the necessary bulk to a formulation to prepare tablets of the desired size is called

A:-Blinders

B:-Diluents

C:-Disintegrants

D:-None of the above

Correct Answer:- Option-B

Question56:-Lozenges are

A:-Solid dosage form

B:-Liquid dosage form

C:-Semi solid dosage form

D:-None of the above

Correct Answer:- Option-A

Question57:-Hydrophilic ointment is an example of

A:-Water removable base

B:-Oleaginous base

C:-Absorption base

D:-Water soluble base

Correct Answer:- Option-A

Question58:-The factors depends on the selection of base in the formulation of an

ointment includes

A:-Desired release rate of the drug substance from the ointment base

B:-Stability of the drug in the ointment base

C:-Both A and B

D:-None of the above

Correct Answer:- Option-C

Question59:-Fusion is a method used for the preparation of

A:-Tablets

B:-Ointments

C:-Capsules

D:-None of the above

Correct Answer:- Option-B

Question60:-Elixirs are

A:-Solid dosage form

B:-Liquid dosage form

C:-Semi solid dosage form

D:-None of the above

Correct Answer:- Option-B

Question61:-Aqueous or oleaginous solutions in the form of coarse droplets are called

A:-Elixirs

B:-Spray

C:-Syrup

D:-None of the above

Correct Answer:- Option-B

Question62:-Silica gel is an example of

A:-Inorganic gel

B:-Organic gel

C:-Hydrogel

D:-None of the above

Correct Answer:- Option-C

Question63:-A dosage form which contains dispersed gas bubbles

A:-Syrup

B:-Spray

C:-Tablets

D:-Foams

Correct Answer:- Option-D

Question64:-The permissible limit of lead in herbal drug preparations

A:-10ppm

B:-3ppm

C:-0.3ppm

D:-1ppm

Correct Answer:- Option-A

Question65:-The test that is used to evaluate the ability of the tablets to withstand abrasion in packing, handling and transporting

A:-Hardness test

B:-Dissolution test

C:-Disintegration test

D:-Friability test

Correct Answer:- Option-D

Question66:-The use of Clevenger apparatus is for the following purpose

A:-Volatile compound determination

B:-Sublimation

C:-HPTLC

D:-To determine pH of liquids

Correct Answer:- Option-A

Question67:-"Bhumau hastamidau nimnam vidyat gartamuttamam" is said in the context of

A:-Bhudhara yantra

B:-Patala yantra

C:-Kachapa yantra

D:-Tiryakpatana yantra

Correct Answer:- Option-B

Question68:-SFC stands for

A:-Super Critical Fluid Chromatography

B:-Specific Fluid Chromatography

C:-Single Function Chromatography

D:-Simple Fluorescence Chromatography

Correct Answer:- Option-A

Question69:-Atomic Absorption Spectrophotometry is to identify the following in a given compound

A:-Alkaloids

B:-Mineral elements/Heavy metals

C:-Microbial growth

D:-Pesticidal/chemical residues

Correct Answer:- Option-B

Question70:-The following helps to identify presence of untransformed free metal in a Bhasma

A:-HPTLC

B:-Sublimation

C:-Xray Diffraction

D:-None of the above

Correct Answer:- Option-C

Question71:-API recommends the use of the following refractometer for most measurements

A:-Handheld refractometer

B:-Brix refractometer

C:-Abbe's refractometer

D:-Rayleigh refractometer

Correct Answer:- Option-C

Question72:-Which sieve number is used for the powder to be of "very fine" category

A:-Sieve No. 80

B:-Sieve No. 100

C:-Sieve No. 125

D:-Sieve No. 60

Correct Answer:- Option-C

Question73:-Which chapter of Rasa ratna samucchaya deals about yantras

A:-7

B:-9

C:-11

D:-13

Correct Answer:- Option-B

Question74:-Identify the odd one out

A:-Adhahpatana yantra

B:-Adhopatana yantra

C:-Tiryakpatana yantra

D:-Urdhwapatana yantra

Correct Answer:- Option-B

Question75:-Which of the following is not a type of Chromatography ?

A:-Thin layer chromatography

B:-Affinity Chromatography

C:-Flash Chromatography

D:-None of the above

Correct Answer:- Option-D

Question76:-Institutional Animal Ethics Committee must be reconstituted once every \_\_\_\_ years.

A:-3 years

B:-5 years

C:-7 years

D:-9 years

Correct Answer:- Option-B

Question77:-One among the following is not among the 3R's of animal research

A:-Replacement

B:-Reduction

C:-Refinement

D:-Rehabilitate

Correct Answer:- Option-D

Question78:-Ethical guidelines for medical research involving human subjects are framed by

A:-US-FDA

B:-CDC

C:-WHO

D:-CIOMS

Correct Answer:- Option-D

Question79:-Beall's List is known for listing of the following :

A:-Predatory journals

B:-Ghost journals

C:-Plagiarised journals

D:-PubMed indexed journals

Correct Answer:- Option-A

Question80:-Impact Factor (IF) of a journal is given by

A:-Clarivate

B:-PLOS

C:-PubMed

D:-Springer

Correct Answer:- Option-A

Question81:-Fibroblasts come under

A:-Transformed cells

B:-Primary cells

C:-Self-renewal cells

D:-None of the above

Correct Answer:- Option-B

Question82:-International Traditional Medicine Clinical Trial Registry (ITMCTR) is established by

A:-Japan

B:-India

C:-China

D:-Sri Lanka

Correct Answer:- Option-C

Question83:-An Orphan Drug is one which is

A:-Approved for clinical trial, not approved for usage in public

B:-Used to treat rare medical conditions

C:-A drug approved for pre-clinical research

D:-A drug studied in invivo models

Correct Answer:- Option-B

Question84:-In Silico study means

A:-Using silicon-based molecules in research

B:-Discoveries made using computer simulation

C:-Drug study using silica gel medium

D:-Analysing presence of silicon molecules in a organism

Correct Answer:- Option-B

Question85:-Duration of Phase 3 clinical trials is

A:-1-4 years

B:-4-8 years

C:-8-12 years

D:-Few months

Correct Answer:- Option-A

Question86:-ANOCOVA (Analysis of Covariance) has

A:-Features of Analysis of variance

B:-Same features of Regression

C:-No utility when uncontrolled variable influences study variable



D:-Features of both ANOVA and Regression combined together

Correct Answer:- Option-D

Question87:-For comparison of differentials of variance between groups, which test is suitable ?

A:-'Z' test

B:-Paired t test

C:-Student's t test

D:-'F' test

Correct Answer:- Option-D

Question88:-'t' test is

A:-Parametric small sample test

B:-Non parametric small sample test

C:-Parametric large sample test

D:-Non parametric large sample test

Correct Answer:- Option-A

Question89:-Full form of SPSS is

A:-Statistical processor slot

B:-Statistical package for the social sciences

C:-Socially processed statistical support

D:-System processor for statistical support

Correct Answer:- Option-B

Question90:-Statistical software is used for

A:-Data collection

B:-Data tabulation

C:-Data mining

D:-None of the above

Correct Answer:- Option-D

Question91:-Conch (*Turbinella rapa*) shell mainly contains

A:-Sulphur dioxide

B:-Sodium carbonate

C:-Zinc sulphate

D:-None of the above

Correct Answer:- Option-D

Question92:-Honey is made of the following raw materials

A:-Nectar and dew

B:-Phloemsap and nectar

C:-Nectar and Honey dew

D:-Phloem sap, Nectar and Honey dew

Correct Answer:- Option-D

Question93:-Bezoar (*Felbovinum purifactum*) acts as

A:-Antispasmodic

B:-Laxative

C:-None of the above

D:-Both A and B

Correct Answer:- Option-D

Question94:-Musk is the secretion from

A:-Thyroid gland

B:-Liver

C:-Pancreas

D:-None of the above

Correct Answer:- Option-D

Question95:-Scientific name of pearl oyster is

A:-*Cypraea moneta*

B:-*Gastropoda pulmonata*

C:-*Corallium rubrum*

D:-None of the above

Correct Answer:- Option-D

Question96:-Citronella oil is obtained from

A:-*Cymbopogon nardus* (Linn.)

B:-*Pinus palustris* (Retz.)

C:-*Trachyspermum ammi* (Linn.)

D:-*Echinochloa crus-galli*

Correct Answer:- Option-A

Question97:-Medicinally useful part of *Alpinia galanga* is

A:-Fruit

B:-Leaf

C:-Stem

D:-None of the above

Correct Answer:- Option-D

Question98:-Resins dissolve in

A:-Water

B:-Organic solvents

C:-Both A and B

D:-None of the above

Correct Answer:- Option-B

Question99:-Flavours are to be added in Medicinal preparations

A:-Prior to any operation involving heat

B:-After any operation involving heat

C:-In between preparation

D:-Before and after heating

Correct Answer:- Option-B

Question100:-Saccharin sodium is

A:-Sweeter than sugar

B:-Does not have bitter aftertaste

C:-Both A and B

D:-Less sweet than sugar

Correct Answer:- Option-A