

001. Number of pharmacists required in a hospital pharmacy department of a 200 bed hospital are

- (A) 10
(C) 5

- (B) 8
(D) 7

002. A special type of needle used for ligaturing and have a handle and a blunt curved tip

- (A) Hypodermic needle
(C) Lumbar puncture needle

- (B) Surgical needle
(D) Aneurysm needle

003. The following is an example of tertiary source of drug information

- (A) Conference proceedings
(B) Indian Pharmaceutical Guide
(C) Indian Journal of Hospital Pharmacy
(D) Indian Pharmacopoeia

004. The Indian Hospital Pharmacists Association was formed in the year

- (A) 1947
(C) 1990

- (B) 1963
(D) 1928

005. Generally if supplies are of minor characters and are urgently needed, following tender type is preferred.

- (A) Open Tender
(C) Limited Tender

- (B) Single Tender
(D) Oral Tender

006. Following is an example of on-the-job training except

- (A) Sensitivity training
(C) Vestibule training

- (B) Coaching and counselling
(D) Job rotation

007. _____ was formerly known as Imperial Bank of India.

- (A) Reserve Bank of India
(B) State Bank of India
(C) The Joint-Stock Commercial Banks
(D) The Exchange Banks

008. The preference shares which do not carry the right to share in surplus profits are called as

- ☒ (A) Non-convertible shares
(B) Non-participating shares
(C) Non-cumulative shares
(D) Irredeemable shares

009. Financial position of business can be found and earning capacity of business can be easily determined by this accounting concept.

- ☒ (A) Dual Aspect concept
(B) Accounting equivalence concept
(C) Separate entity concept
(D) Going concern concept

010. "Pradhan Mantri Jan Aushadhi Yojana" (PMJAY) renamed as "Pradhan Mantri Bhartiya Janaushadhi Pariyojana" (PMBJP) in which of the following year?

- (A) 2015
(B) 2018
(C) 2016
(D) 2017

011. Which of the following is true regarding Pharmacy Council of India?

- (A) Pharmacy Council of India is an independent body
☒ (B) Pharmacy Council of India is a statutory body under Ministry of Health and Family Welfare
(C) Pharmacy Council of India is an autonomous institute under Department of Pharmaceuticals
(D) None of the given

012. Who is present Director General of ICMR?

- (A) Dr. Rajiv bahl
(B) Dr. M. Srinivas
☒ (C) Dr. Balram Bhargava
(D) Dr. V. K. Paul

013. Who has launched National Policy on Research and Development and Innovation in Pharma-MedTech Sector in India and Scheme for promotion of Research and Innovation in Pharma MedTech Sector (PRIP)?

- (A) Hon'ble PM Narendra Modi
(B) Hon'ble CM Bhupendrabhai Patel
(C) Hon'ble Minister, Dr. Mansukh Mandaviya
☒ (D) Ms. S. Aparna, Secretary (Pharma)

014. National Medical Commission Act, 2019 came into force on _____.
(A) 25-10-2020 (B) 24-09-2019
(C) 25-12-2019 (D) 25-09-2020

015. _____ is recognized as the "Father of American Pharmacy."
(A) David Walters (B) Michael Young
(C) Jacob Esac (D) William Procter Jr.

016. _____ to become India's first homegrown iPhone manufacturer.
(A) Adani (B) Ambani
(C) Tata (D) None of the given

017. The Board of Control for Cricket in India announced _____ would take over as the Indian women's cricket head coach.
(A) Amol Muzumdar (B) Ramesh Powar
(C) Hrishikesh Kanitkar (D) None of the given

018. World Diabetes Day is celebrated on which day every year?
(A) November 12 (B) November 14
(C) November 16 (D) November 18

019. Glaucoma is a disease related to which part of the human body?
(A) Lungs (B) Ears
(C) Eyes (D) Heart

020. Outer layer of teeth made of what?
(A) Calcium phosphate (B) Calcium Nitrate
(C) Potassium Phosphate (D) Sodium phosphate

021. The name Ajay Banga is associated with which of the following?
(A) IRDAI (B) UNICEF
(C) IMF (D) World Bank

022. Who became Asia's first woman 'Loco Pilot'?
(A) Sita Devi (B) Surekha Yadav
(C) Ami Munshi (D) None of the given

023. Which organization initiated the Legal Entity Identifier (LEI) system?
(A) BCCI (B) SBI
(C) SEBI (D) RBI
024. India got its first In vitro fertilization (IVF) mobile unit for animals in _____ of Gujarat.
(A) Ahmedabad (B) Dwarka
(C) Amreli (D) Junagadh
025. What is the input unit used to directly read and enter information typed or printed on paper into a computer?
(A) Scanner (B) Digitizer
(C) Optical Code Reader (D) Optical Mark Reader
026. Which shortcut key can be used to add 'Copyright' logo in MS Word?
(A) Ctrl + Shift + C (B) Ctrl + Alt + C
(C) Shift + Alt + C (D) Alt + Tab + C
027. Which of the following represents all possible examples of system software?
I. Windows ✓
II. Linux ✓
III. Debian ✗
IV. Android ✓
V. Oracle ✗
(A) I & II (B) I, II & IV
(C) I, II, (III) & IV (D) I, II, IV & (V)
028. The protocol for the communication over the internet is known as _____.
(A) HTTP / IP (B) TCP / IP
(C) HMT / IP (D) CTP / IP
029. What is written on the change case icon in MS Word?
(A) Cc (B) Aa
(C) AA (D) Bb

030. Which of the following is correct regarding font typeface?
- (A) Font typefaces can be divided into two types: (1) serif and (2) sans serif.
- (B) Times, Bookman, Century etc. are sans serif type fonts.
- ☒ (C) Arial, Verdana, Helvetica etc. are serif type fonts.
- (D) All of the given

031. Shortcut-key to select entire row in MS Excel is _____.
- (A) Ctrl + Space (B) Shift + Space
- (C) Alt + Space ☒ (D) Alt + R

032. A chart that can be contained in a single cell in MS Excel is called _____.
- (A) Sparkline (B) Slicer
- ☒ (C) Goal Seek (D) Magic Chart

033. Maximum number of slides can be printed on one page in MS Powerpoint?
- (A) 4 (B) 8
- (C) 9 (D) 10

034. _____ is not a search engine.
- (A) Bing (B) Baidu
- (C) Google ☒ (D) Outlook

035. The provision of Import under Drugs and Cosmetics Act – 1940 is applicable to following categories except
- (A) Allopathic drugs
- ☒ (B) Ayurvedic, Siddha and Unani drugs
- ☒ (C) Homeopathic drugs
- ☒ (D) Cosmetics

036. The following heavy metal have least permissible limit as per WHO and FDA.
- (A) Lead (Pb) (B) Cadmium (Cd)
- ☒ (C) Arsenic (As) (D) Mercury (Hg)

037. Which of the following statement is incorrect regarding Handling of Prescription by a pharmacist according to Code of Pharmaceutical Ethics?

- (A) Upon receipt of prescription, pharmacist should not show any type of expression, which create doubt or fear in mind of patient.
- ☒ (B) For certain cases like incompatibility the prescription should be referred back to physician
- (C) Pharmacist has the privilege to add, omit or substitute any ingredient without the consent of prescriber
- (D) Pharmacist should not discuss with patients regarding therapeutic efficacy of prescription

038. An individual currently registered and who works according to legal and ethical guidelines to ensure the correct and safe supply of medicinal products to general public is called as _____.

- (A) Drug Information Pharmacist
- (B) Hospital Pharmacist
- (C) Community Pharmacist
- ☒ (D) Clinical Pharmacist

039. Who among the following is not an Ex-officio member of the pharmacy council of India?

- ☒ (A) Member elected by Medical Council of India
- (B) Director General of Health Services
- (C) Drug Controller of India
- (D) Director of Central Drug Laboratory

040. The incompatibility between soluble salicylates and acids is favoured by use of _____ in the preparation of sodium salicylate formulations.

- (A) Lemon Syrup
- ☒ (B) Lemon Tincture
- (C) Simple Syrup
- (D) Orange Peel infusion

041. Example of a nonwoven filter media is _____.

- ☒ (A) Membrane filter
- (B) Kraft papers
- (C) Filter cloth
- (D) Stainless steel filter

042. GLC method as a chemical method of assay for _____ is allowed as an alternative to microbial assay.

- (A) Penicillin
- (B) Clindamycin
- (C) Rifampicin
- ☒ (D) Nystatin

043. Solid in gas disperse system of _____ are examples of a colloidal and coarse disperse system respectively.

- (A) Smoke and spray
(C) Foam and dust

- (B) Fog and spray
(D) Smoke and dust

044. Gastric emptying rate is generally retarded by following factors except.

- ✓(A) Lying on the right side
(B) Fatty foods
(C) High concentration of electrolytes (acidic solutions)
(D) Diseases such as gastric ulcers and hypothyroidism

045. Mosquitoes act as vectors in spread of one of the following diseases.

- ✓(A) Rocky Mountain Fever
(C) Lyme disease

- (B) Plague —
(D) Filariasis

046. Following lymphokine is secreted from macrophages and B cells.

- (A) Gamma interferon
(C) Interleukin 2

- (B) Interleukin 1
(D) Tumor necrosis factor

047. The early antibody produced during a primary immune response is

- (A) IgA
(C) IgD

- ✓(B) IgM
(D) IgG

048. Systemic Lupus Erythematosus is an example of _____ reaction.

- ✓(A) Type II hypersensitivity
(C) Type III hypersensitivity

- (B) Type I hypersensitivity
(D) Type IV hypersensitivity

049. The following immune-diagnostic technique was introduced first in comparison to other stated techniques

- (A) ELISA
(C) Western Blot

- (B) Southern Blot
(D) Northern Blot

050. Jaslok Hospital, Bombay is an example of _____ type in terms of non-clinical basis.

- ✓(A) Private ownership Limited Company
(B) Private ownership Trust
(C) Public Ownership Central Government
(D) Public Ownership State Government

051. The best indicator of protein quality for recommending the dietary protein requirement is _____.
(A) Protein Efficiency Ratio
(C) Digestibility coefficient
(B) Biological Value
(D) Net Protein Utilization

052. As per the operational guideline on Kala-Azar elimination in India 2015 in NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME (NVBDCP), All of the following drugs are used in treatment of Visceral Leishmaniasis except:

- (A) Amphotericin B
(C) Hydroxychloroquine
(B) Paramomycin
(D) Miltefosine

053. All of the following are clinical manifestations of Dengue shock syndrome except:

- (A) Hepatomegaly
(C) Thrombocytopenia
(B) Pleural effusion
(D) Decreased Haemoglobin

054. Which of the following agent is used to reduce the gastrointestinal absorption of ingested poison?

- (A) Succimer
(C) Pralidoxime
(B) Activated charcoal
(D) Dimercaprol

055. Which of the following route of administration does not have the absorption phase?

- (A) Subcutaneous
(C) Intravenous
(B) Intramuscular
(D) Sublingual

056. Which of the following is an example of metabotropic receptor?

- (A) Muscarinic Receptor
(C) 5 HT-3 Receptor
(B) Nicotinic Receptor
(D) Insulin Receptor

057. Which of the following is an example of synergism?

- (A) Imipenam + Cilastatin
(B) Noradrenaline + Phenoxybenzamine
(C) Acetylcholine + Atropine
(D) Charcoal + Alkaloid

058. Which of the following term is used to describe the process of release of neurotransmitter from neuron, when vesicles fuse with neuronal membrane?

(A) Endocytosis

(B) Exocytosis

☒ (C) Pinocytosis

(D) Phagocytosis

059. Which of the following is mechanism of action of selegiline for its anti-parkinsonian action?

(A) Inhibition of COMT

(B) Inhibition of MAO-B

☒ (C) Inhibition of Dopa decarboxylase

(D) Blocks the reuptake of dopamine

060. Which of the following is the common mechanism of action for phenytoin and carbamazepine?

☒ (A) Inhibition of Benzodiazepine receptor

(B) Stimulation of Benzodiazepine receptor

(C) Prolonging the inactivation of Sodium ion channel

(D) Decrease Glutamate synthesis

061. Which of the following antipsychotic drug improves both positive and negative symptoms of schizophrenia and have fewer episodes of extrapyramidal symptoms?

(A) Chlorpromazine

(B) Haloperidol

(C) Thiothixene

☒ (D) Risperidone

062. Which of the following opioid is highly lipophilic and available in market as transdermal patch for the treatment of chronic pain?

(A) Dextromethorphan

(B) Naltrexone

(C) Scopolamine

☒ (D) Fentanyl

063. Which of the following property is used to compare the potency of gaseous general anaesthetic agent?

(A) Blood: Gas partition co-efficient

(B) Minimal alveolar concentration

☒ (C) Relative analgesic potency

(D) Rate of uptake and elimination

064. Which of the following drug is used for treatment of benzodiazepines intoxication or overdose?

(A) Varenicline

(C) Bupropion

☒ (B) Flumazenil

(D) Buprenorphine

065. Which of the following ion is participating in the process of clotting as clotting factor?

(A) Sodium

(C) Calcium

(B) Chloride

☒ (D) Potassium

066. Which of the following cells of blood are likely to stick with adhesion molecules in the process of emigration?

(A) Erythrocytes

(C) Neutrophils

☒ (B) Thrombocytes

(D) Reticulocytes

067. Which stage of cardiac cycle normally lasts the longest?

(A) Complete Cardiac diastole

(C) Atrial systole

(B) Ventricular contraction

☒ (D) Atrial contraction

068. Which of the following is the end product of glycolysis?

(A) Glucose

(C) Citric acid

(B) Pyruvic acid

☒ (D) Glycogen

069. Which of the following vitamin deficiency is observed in pernicious anaemia?

(A) Ascorbic acid

(C) Niacin

(B) Pyridoxine

☒ (D) Cyanocobalamin

070. Which of the following is the most sensitive detector for analysis of phosphorus containing pesticide samples using gas chromatography

(A) Thermionic detector

(B) Flame ionization detector

(C) Thermal conductivity detector

☒ (D) Electrolytic conductivity detector

[P.T.O.]

071. Select the correct sequence of chromatographic column according to their separation efficiency.
- WCOT column > SCOT column > Packed column
 - SCOT column > WCOT column > Packed column
 - Packed column > SCOT column > WCOT column
 - Packed column > WCOT column > SCOT column
072. Which of the following sentence is true for reverse phase chromatography?
- Stationary phase is nonpolar, mobile phase is polar and nonpolar component elute out first
 - Stationary phase is polar, mobile phase is nonpolar and polar component elute out first
 - Stationary phase is nonpolar, mobile phase is polar and polar component elute out first
 - Stationary phase is nonpolar, mobile phase is nonpolar and nonpolar component elute out first
073. In HPLC, a pre-column placed between the mobile phase reservoir and injector is called
- Guard column
 - Scavenger column
 - Analytical column
 - Packed column
074. Which of the following electronic transition is forbidden transition?
- $\sigma - \sigma^*$
 - $n - \sigma^*$
 - $\pi - \pi^*$
 - $n - \pi^*$
075. In IR spectroscopy, the very near infrared region is also known as _____.
- Overtone region
 - Rotation region
 - Vibration region
 - Photographic region
076. An energy-level diagram in a molecule called *Jablonski diagram* is associated with which of the following spectroscopic technique?
- UV Visible spectroscopy
 - IR spectroscopy
 - Fluorimetry
 - Raman spectroscopy
077. In mass spectrometry, degree of unsaturation is predicted using _____.
- Nitrogen rule
 - Index of Hydrogen Deficiency
 - Stevenson's rule
 - Rule of thirteen

078. The positions of signals in NMR spectrum provide information about
(A) Environments of absorbing proton with respect to neighbouring proton
(B) Number of proton
(C) Relative number of proton
(D) Electronic environment of proton
079. The largest peak in the mass spectrum having highest intensity is called
(A) Fragment peak
(B) Molecular ion peak
(C) Base peak
(D) Daughter ion peak
080. Which of the following is an official leaf constant?
(A) Vein termination number
(B) Stomatal Index
(C) Palisade ratio
(D) Vein islet number
081. Identify the drug used as disintegrating agent in tablets.
(A) Cocoa butter
(B) Sorbitol
(C) Carboxymethyl cellulose
(D) Lanolin
082. Which of the following gum drug is used as pharmaceutical aid?
(A) Acacia
(B) Bees wax
(C) Kaolin
(D) Gelatine
083. Which is not a method for adulteration of crude drugs?
(A) Substitution with inferior drugs
(B) Substitution with exhausted drugs
(C) Substitution with substandard drugs
(D) Substitution with allied drugs having similar therapeutic activity
084. Identify the source of cinnamon.
(A) Animal
(B) Mineral
(C) Vegetable
(D) Marine
085. Swelling index is used to check adulteration in _____.
(A) Nuxvomica
(B) Ispaghula
(C) Rauwolfia
(D) Ipecac

086. Who coined the term 'pharmacognosy'?
(A) Hippocrates (B) Seydler
(C) Tschirsh (D) Aristotle
087. Which of the following is a seed drug?
(A) Colchicum (B) Ginger
(C) Vasaka (D) Cinchona
088. Which of the following is a glycoside drug?
(A) Nuxvomica (B) Black catechu
(C) Asafoetida (D) Digitalis
089. Which of the following is not physical evaluation of crude drug?
(A) Determination of extractive value
(B) Determination of stomata number
(C) Determination of melting point
(D) Determination of ash value
090. Which of the following is usually given in combination with Aluminium hydroxide as an antacid?
(A) Potash alum (B) Calcium chloride
(C) Magnesium hydroxide (D) Ferrous sulphate
091. Which of the following is a desensitizing agent used as a dental product?
(A) Calcium Phosphate (B) Zinc Sulphate
(C) Calcium carbonate (D) Strontium chloride
092. Which of the following ultra-short-acting hypnotic drugs is used intravenously in anaesthesia?
(A) Thiopental (B) Flurazepam
(C) Phenobarbital (D) Zolpidem
093. The substance with capacity to accept electron pair is known as
(A) Lewis base (B) Lewis acid
(C) Bronsted acid (D) Bronsted base

094. Which of the following stereoisomers of chloramphenicol is biologically active?
☒ (A) L-Erythro (B) L-Threo
(C) D-Erythro (D) D-Threo
095. Hydrogen peroxide is used as...
(A) Acidifying Agent (B) Antidot
☒ (C) Antiseptic (D) Dental product
096. Which one of the following is used in sunburn?
(A) Titanium dioxide ☒ (B) Potassium Iodide
☒ (C) Boric acid (D) Calcium oxide
097. Which of the following heterocyclic ring is present in Clofazimine which is used for the treatment of leprosy?
(A) Thiophene ☒ (B) Pyridine
(C) Pyrimidine (D) Phenazine
098. Buffers are a mixture of
(A) Strong acid & Strong base ☒ (B) Weak acid & its conjugated base
(C) Weak base & Weak acid (D) Strong base and its salt
099. Which of the following statement is not true for Benzodiazepines?
(A) Electron-withdrawing group at the 7th position enhances the pharmacological activity
(B) Electron-donating group at 7th position enhances the pharmacological activity
(C) Electron withdrawing group at 2' and 6' positions enhance pharmacological activity
(D) Unsaturation between C4 & C5 required for the activity
100. Living standard of people is best measured by
(A) Infant Mortality Rate ☒ (B) Maternal Mortality Rate
(C) Physical Quality of Life Index (D) Death Rate

