

001. "Pradhan Mantri Jan Aushadhi Yojana" (PMJAY) is renamed as _____ in 2016.

- (A) Pradhan Mantri Jan Arogya Yojana
(B) Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP)
(C) Pradhan Mantri Jan Kalyan Yojana (PMJKY)
(D) Pradhan Mantri Arogyam Yojana (PMAY)

002. How many feet tall statue of Adi Shankaracharya was unveiled at Omkareshwar?

- (A) 105
(B) 108
(C) 104
(D) 109

003. Who is present Director General of WHO?

- (A) Tedros Adhanom
(B) Margaret Chan
(C) Gro Harlem Brundtland
(D) Lee Jong Wook

004. Dr. Jivraj Mehta Hospital is associated with which of the following group recently?

- (A) Adani Group
(B) Apollo Group
(C) Bakeri Group
(D) Zydus Group

005. Gujarat Medical Council was established in _____.

- (A) April 1967
(B) August 1967
(C) March 1968
(D) April 1968

006. Who is present Cabinet Minister of Health and Family Welfare Department, Government of Gujarat?

- (A) Shri Rushikesh Patel
(B) Shri Manoj Aggarwal
(C) Dr. Mansukh Mandaviya
(D) Shri Praful Panseriya

007. Where is the headquarters of the African Union, a permanent member of the G20?

- (A) Harare - Zimbabwe
(B) Addis Ababa - Ethiopia
(C) Abuja - Nigeria
(D) Nairobi - Kenya

008. How long does it take for meridian to pass in front of the sun?

- (A) 1 Minute
(B) 2 Minute
(C) 3 Minute
(D) 4 Minute

009. World Pneumonia Day is celebrated on which day every year?
(A) November 12 (B) November 14
(C) November 16 (D) November 18
010. When was ISRO's first remote sensing satellite launched?
(A) 1985 (B) 1986
(C) 1987 (D) 1988
011. Capital of Israel.
(A) Jerusalem (B) Labenon
(C) Safed (D) Tel Aviv
012. Which payment bank was first established in India?
(A) Paytm Payments Bank (B) Airtel Payments Bank
(C) Fino Payments Bank (D) India Post Payments Bank
013. The nodal ministry of the recently announced Vishwakarma Yojana.
(A) Ministry of Home Affairs
(B) Ministry of Housing and Urban Affairs
(C) Ministry of Micro, Small and Medium Enterprises
(D) Ministry of Health and Family Welfare
014. Which company has initiated the production of 'Reference' petrol and diesel?
(A) BPCL (B) IOC
(C) HPL (D) REC
015. Which of the following is regulatory body of insurance industry?
(A) SEBI (B) LIC
(C) GIC (D) IRDAI
016. Which of the following is relevant with 1 zettabyte (Zb)?
(A) 1024 Pb (B) 1024 Eb
(C) 1024 Tb (D) 1024 GB
017. Which shortcut key can be used to justify the text in MS Word?
(A) Ctrl + Shift + J (B) Ctrl + Alt + J
(C) Shift + Alt + J (D) Ctrl + J

018. Seagate company is known for production of which parts of CPU?

- (A) RAM ☒ (B) Harddisk
(C) Motherboard (D) CD Drive

019. Which tab is used to insert the footnote in MS Word?

- (E) X ☒ (A) Review (B) View
(C) References? (D) Mailing

020. Spelling and Grammar check option is available under the _____ tab in MS Word.

- ☒ (A) References (B) Mailings
(C) View ☒ (D) Review

021. 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 serif type fonts.
(C) Arial, Verdana, Helvetica etc. are sans serif type fonts.
☒ (D) All of the given

022. Short cut key to add new row in MS Excel.

- X ☒ (A) Ctrl + "+" (B) Ctrl + Shift + =
(C) Alt + "+" ☒ (D) A & B both

023. Text to column option is available under which of the following tab in MS Excel?

- ☒ (A) Data (B) View
(C) Home (D) Review

024. Smart Art option is available under which of the following tab in MS PowerPoint?

- (A) Home ☒ (B) Insert
(C) Design (D) Animation

025. Default font type in MS Word is _____.

- (A) Times New Roman (B) Arial
☒ (C) Calibri (D) None of the given

026. Which amongst the following is not laboratory responsibility of a laboratory technician

- (A) Preparing media
(C) Cleaning lab

- (B) Maintaining stock
(D) Maintaining discipline

027. _____ g NaOH will be needed to prepare 500ml 2.5 N KOH solution?

- (A) 10
(C) 40

- (B) 20
(D) 50

028. What is the Normality of Sulphuric acid?

- (A) 11
(C) 36

- (B) 32
(D) 40

029. Urea is an indicator of

- (A) Liver Function test
(C) Renal function Test

- (B) Pancreatic function test
(D) Thyroid function test

030. Name test to detect xylose

- (A) Bial's orcinol test
(C) Iodine test

- (B) Seliwanoff's test
(D) Biurette's test

031. How will you calculate equivalent weight

- (A) Atomic weight / Valency
(B) Molecular weight / Valency
(C) Molecular weight / Atomic weight
(D) Atomic weight / Molecular weight

032. Hopkins-Cole test is specific for

- (A) Arginine
(C) Cysteine

- (B) Tryptophan
(D) Histidine

033. Ehrlich's test will detect presence of _____ amino acid?

- (A) Arginine
(C) Tyrosine

- (B) Tryptophan
(D) Iso leucine

034. Serum Glutamate Oxaloacetate Transaminase (SGOT) is used in diagnosis of

- (A) Pancreatic Disorders
(C) Muscle disorders

- (B) Bone diseases
(D) Myocardial Infarction

035. Which of the following is LFT?
- (A) ESR
(B) Alanine transaminase
(C) Serum glucose
(D) Serum creatinine

036. Estimated GFR indicated health of
- (A) Liver
(B) Heart
(C) Kidney
(D) Gall bladder

037. Figure depicts Osazone of:



- (A) Galactose
(B) Glucose
(C) Maltose
(D) Xylose
038. Which statement is not correct for handling of strong acids:
- (A) Should wear gloves
(B) Should wear acid proof / water proof apron
(C) Use of normal pipette is allowed
(D) Work in fume hood
039. Name the specific test to detect Keto sugar
- (A) Bial's orcinol test
(B) Seliwanoff's test
(C) Iodine test
(D) Molisch test

040. Which amongst the following is the most important safety rule in biochemistry laboratory?
- (A) No Food or Drink
(B) Wear Your PPE and Proper Lab Attire
(C) Use Proper Storage Containers
(D) Label Your Work Space

041. Which of the following microorganisms is used as a test microorganism in growth promotion test of alternative thioglycolate media (ATM).

- (A) *Staphylococcus aureus*
(B) *Pseudomonas aeruginosa*
(C) *Clostridium sporogenes*
(D) *Escherichia coli*

042. Correct sequence for membrane filtration technique can be?

- I. Washing of membranes for removing traces of antibiotics
II. Transfer of microorganism to culture media
III. Passing of formulations from membrane filter
IV. Identification tests of microbes

- (A) I - III - II - IV
(B) III - II - I - IV
(C) I - II - III - IV
(D) I - IV - III - II

043. Which microbe is used for bioassay of penicillin

- (A) *Bacillus subtilis* ATCC 6633
(B) *Bacillus subtilis* ATCC 6699
(C) *Staphylococcus aureus* ATCC 6633
(D) *Escherichia coli*

044. *Aedes aegyptii* is responsible for transmission of

- (A) Yellow fever
(B) Elephantiasis
(C) Murine typhus
(D) Encephalitis

045. Which species of Plasmodium is responsible for deadliest malaria

- (A) *P. ovale*
(B) *P. falciparum*
(C) *P. malariae*
(D) *P. vivax*

046. Broth culture is mainly used for _____ of bacteria

- (A) Isolation
(B) Cultivation
(C) Preservation
(D) Identification

047. Agar slope culture is mainly used for _____ of bacteria

- (A) Isolation
(B) Cultivation
(C) Preservation
(D) enumeration

048. What is the concentration of agar agar in agar slant

- (A) 1% (B) 2%
(C) 3% (D) 4%

049. Which of the following is anaerobic cocci?

- (A) *Veillonella* (B) *Clostridium*
(C) *Staphylococcus aureus* (D) *Sarcina*

050. Which of the following is not a physical method for selective isolation of bacteria?

- (A) Heat treatment
(B) pH of the medium
(C) Temperature
(D) Use of inhibitory or toxic chemicals

051. Which bacteria cannot be used for cell wall staining?

- (A) *S aureus* (B) *Micrococcus*
(C) *Bacillus* (D) *Mycoplasma*

052. Visible mass of microorganisms all originating from a single mother cell is known as?

- (A) Colony (B) Strain
(C) Variants (D) Mixed culture

053. Many dyes like crystal violet, brilliant green and Bile salt (sodium taurocholate) inhibit the growth of

- (A) Gram positive bacteria (B) Gram negative bacteria
(C) Mycobacterium (D) Fungi

054. Bacterial Spore is made up of _____.

- (A) Lipoprotein (B) Lipopolysaccharide
(C) Ca dipicolinic acid (D) Peptidoglycan

055. Why sector plate method is also known as four flame method?

- (A) Nichrome wire is sterilized by passing through the flame four times
(B) Streaking is done in four sectors
(C) Streaking is done for four minutes
(D) No specific reason

056. Whip like extension that cover cell surfaces and helps bacteria to move around and attach host is known as

- (A) Flagella / Pili (B) Capsule
(C) Ribosomes (D) Nucleiod

057. If I am suspecting the disease caused by acid fast bacteria, what type of sample will I need for diagnosis by microscopy

- (A) Blood (B) Sputum
(C) Urine (D) Stool

058. Decreased level of blood urea nitrogen may not be due to

- (A) Liver failure (B) Dehydration
(C) Cushing's syndrome (D) Malfunctioning of kidney

059. Signs of hypoglycaemia will not include:

- (A) Blurring of vision (B) Dizziness
(C) Vomiting (D) Excessive perspiration

060. Erythroblastosis fetalis is a condition which arises if in the first pregnancy

- (A) Mother Rh (-) and foetus Rh (-) type and in second pregnancy foetus is Rh (-) type.
(B) Mother Rh (+) and foetus Rh (+) type and in second pregnancy foetus is Rh (+) type.
(C) Mother Rh (-) and foetus Rh (+) type and in second pregnancy foetus is Rh (+) type.
(D) Mother Rh (+) and foetus Rh (-) type and in second pregnancy foetus is Rh (-) type.

061. Haemoglobin molecule contains _____ number of atoms of iron.

- (A) 1 (B) 2
(C) 3 (D) 4

062. Graveyard of RBC is _____.

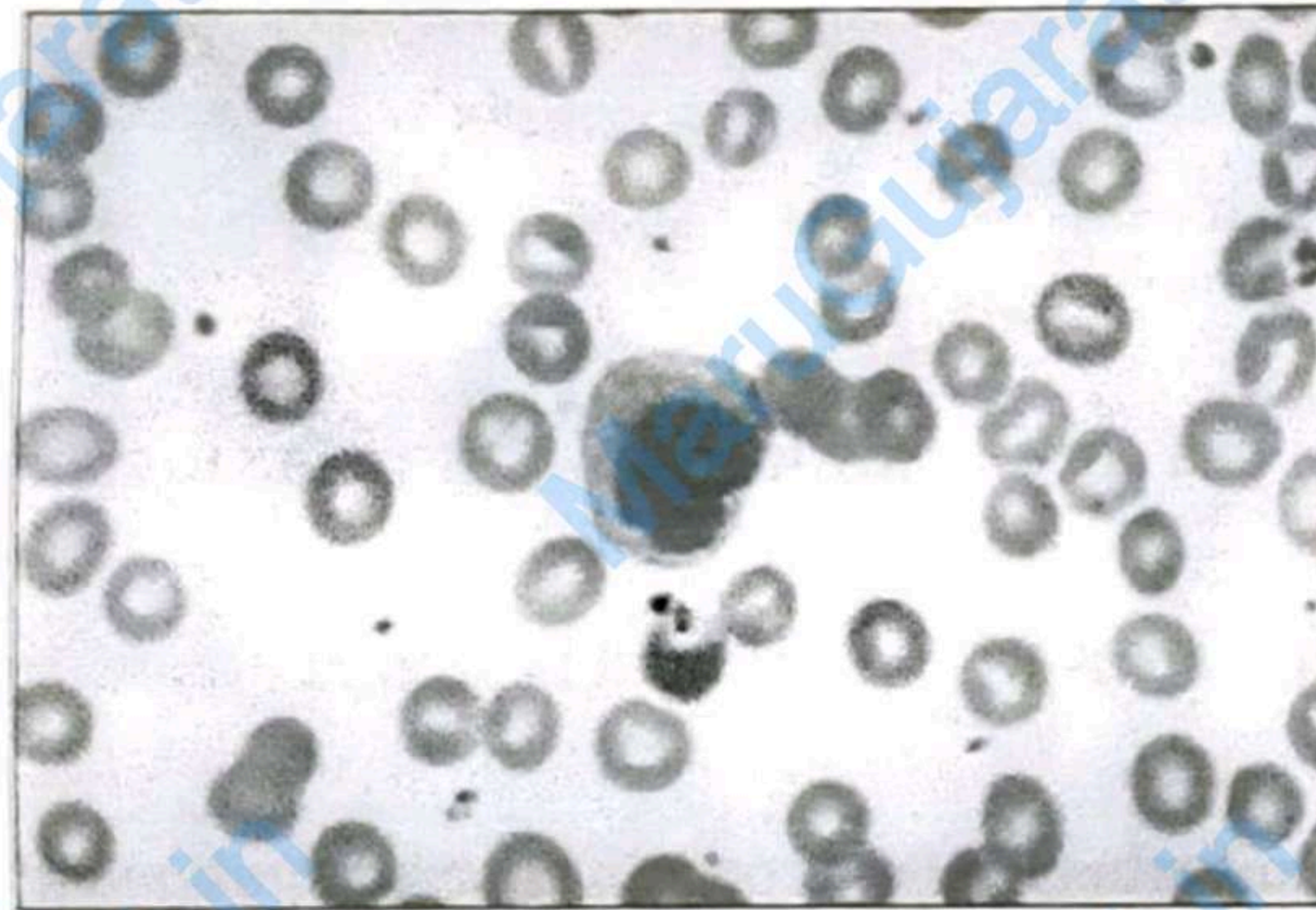
- (A) Spleen (B) Liver
(C) Thymus (D) Bone marrow

063. What will be the value of WBC for given results?

4	2	0	2	1	1	0	0
3	2	1	1	2	1	0	1
1	2	3	4	4	2	1	2
5	4	2	3	3	2	2	2
2	2	0	1	2	0	1	2
4	2	1	0	3	0	3	1
3	5	2	1	4	2	1	5
2	3	2	1	2	3	2	1

- (A) 6300 cells/mm³ of blood
(B) 6250 cells/mm³ of blood
(C) 6200 cells/mm³ of blood
(D) 6150 cells/mm³ of blood

064. Which statement is true for the cell seen in the figure?



- (A) It is also known as scavenger cell.
(B) It has granules.
(C) It is multinucleated.
(D) It can produce antibodies.

065. The Widal test is used for the detection of *Salmonella typhi* and other subspecies. This test is based on the principle where:

- (A) The antigens are detected using the neutralization assay.
(B) The antigen combines with its soluble antibody and form a lattice and develops a visible agglutinate.
(C) The antigens bind to RBCs and form the precipitation.
(D) Antibody and soluble antigen interacting in aqueous solution form a lattice that eventually develops into a visible precipitate.

066. When preparing a tissue for Histopathology and light microscopy, which method precedes clearing the specimen with an organic solvent?

- (A) Fixation
(B) Embedding
(C) Sectioning
(D) Staining

067. What staining is best for lipid detection?

- (A) Berlin blue
(B) Colloid blue
(C) Sudan III IV
(D) Feulgen's Stain

068. Normal values for clotting time is _____ minutes

- (A) 6-9
(B) 10-12
(C) 2-8
(D) 0-4

069. Blood in the blood bank can be stored up to _____ days with CPDA solution

- (A) 20
(B) 30
(C) 35
(D) 40

070. _____ disease is treated by administering Cryoprecipitates

- (A) Haemophilia A
(B) Thalassemia
(C) Anaemia
(D) Haemophilia B

071. _____ stain is not Romanowsky's stain.

- (A) Giemsa's
(B) Leishman's
(C) Field's
(D) Loeffler's

072. A 17-year-old girl decided to go on a starvation diet. After 1 week of starving herself, what substance would most likely be found in her urine?

- (A) Protein
(B) Glucose
(C) Ketones
(D) Blood

073. Identify the organelle, which contains oxidases that oxidize amino acids, fatty acids and toxic substances.

- (A) Peroxisomes
(B) Lysosomes
(C) Endosomes
(D) proteasomes

074. Flattened sacs called cisternae are related to which organelle:
(A) Mitochondria (B) Endoplasmic Reticulum
(C) Golgi complex (D) Nucleus

075. _____ is the ingestion of extracellular fluid, a vesicle surrounds the fluid to take it into the cell.

- (A) Receptor-mediated endocytosis
(B) Bulk-phase endocytosis
(C) Phagocytosis
(D) Transcytosis

076. Which of the following organizes microtubules in nondividing cells and the mitotic spindle in dividing cells?

- (A) pericentriolar material (B) centrioles
(C) intermediate filaments (D) microfilaments

077. The following is a proven human teratogen:

- (A) Chloroquine (B) Warfarin sodium
(C) Dicyclomine (D) Methyldopa

078. At which phase in the cell cycle does centrosome replication begin?

- (A) G1 phase (B) S phase
(C) G2 phase (D) Mitosis phase

079. Which of the following is always true:

- (A) A more potent drug is more efficacious
(B) A more potent drug is safer
(C) A more potent drug is clinically superior
(D) A more potent drug can produce the same response at lower doses

080. The proximal and distal ends of the bone called,

- (A) diaphysis (B) epiphyses
(C) metaphyses (D) periosteum

081. Which of the following bones is the only one that can move in the skull, other than the auditory ossicles?

- (A) zygomatic bone (B) ethmoid bone
(C) maxilla bone (D) mandible bone

082. Which of following muscle tissue is striated and voluntary in nature?

- (A) Skeletal (B) cardiac
(C) smooth (D) all of the above

083. Which neurotransmitter is released by cholinergic neurons?

- (A) Acetylcholine (B) Adrenaline
(C) Noradrenaline (D) Serotonin

084. The hormone release by pineal gland and contributes to setting the body's biological clock is,

- (A) Parathyroid hormone (B) thymic factor
(C) melatonin (D) Calcitonin

085. Parafollicular cells secrete _____.

- (A) Calcitonin (B) TSH
(C) FSH (D) ADH

086. The chamber of the heart with the thickest myocardium is the _____.

- (A) Right Ventricle (B) Left Ventricle
(C) Right Atrium (D) Left Atrium

087. The phase of heart contraction is called _____.

- (A) Systole (B) Diastole
(C) Isovolumetric contraction (D) None of the above

088. T cells mature in the _____.

- (A) Bone marrow (B) Thymus
(C) Thyroid gland (D) Liver

089. _____ governs the movement of air into and out of the lungs, depending on pressure changes.

- (A) Boyle's law
- (B) Sterling's law
- (C) Henry's law
- (D) Austin's law

090. Which of the following are mismatched?

- (A) Chemical digestion: splitting food molecules into simple substances by hydrolysis with the assistance of digestive enzymes
- (B) Motility: mechanical processes that break apart ingested food into small molecules
- (C) Ingestion: taking foods and liquids into the mouth
- (D) Propulsion: movement of food through GI tract due to smooth muscle contraction

091. Discharge of urine from the urinary bladder is called _____.

- (A) Secretion
- (B) Reabsorption
- (C) Filtration
- (D) Micturition

092. Milk production is influenced by _____.

- (A) Prolactin
- (B) Estrogens
- (C) Progesterone
- (D) All of the above

093. Alkalinization of urine hastens the excretion of:

- (A) Weakly basic drugs
- (B) Weakly acidic drugs
- (C) Strong electrolytes
- (D) Nonpolar drugs

094. Active transport of a substance across biological membranes has the following characteristics except:

- (A) It is specific
- (B) It is pH dependent
- (C) It is saturable
- (D) It requires metabolic energy

095. Microsomal enzyme induction can be a cause of:

- (A) Tolerance
- (B) Physical dependence
- (C) Psychological dependence
- (D) Idiosyncrasy

096. Glomerular filtration of a drug is affected by its:
(A) Lipid solubility (B) Plasma protein binding
(C) Degree of ionization (D) Rate of tubular secretion

097. Which of the following is a G protein coupled receptor:
(A) Muscarinic cholinergic receptor
(B) Nicotinic cholinergic receptor
(C) Glucocorticoid receptor
(D) Insulin receptor

098. A receptor which itself has enzymatic property is:
(A) Insulin receptor (B) Progesterone receptor
(C) Thyroxine receptor (D) Glucagon receptor

099. The antagonism between adrenaline and histamine is called 'physiological antagonism' because:
(A) Both are physiologically present in the body
(B) They act on physiological receptors
(C) Both affect many physiological processes
(D) They have opposite physiological effects

100. An undesirable effect of a drug that occurs at therapeutic doses and can be predicted from its pharmacological actions is called:
(A) Side effect (B) Toxic effect
(C) Allergic reaction (D) Idiosyncrasy