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1.Arterial Blood Gas analysis of pH 7.3, PaO₂ mm of Hg, Pa CO₂ HCO₃–26 mmol/L indicates:

- (A) Metabolic acidosis
- (B) Respiratory acidosis
- (C) Metabolic alkalosis
- (D) Respiratory alkalosis

- **Correct Answer:** (B) Respiratory acidosis (Information from outside sources)
- **Rationale:**
 - The pH of 7.3 is below the normal range (7.35–7.45), indicating **acidosis**.
 - The PaCO₂ of 74 mm Hg is significantly elevated (normal is 35–45), which is the primary cause of the acidic pH.
 - The HCO₃ is within the normal range, confirming the imbalance is **respiratory** in origin.

2.Right lumbar region is occupied by:

- (A) Liver, gall bladder, right colon
- (B) Liver gall bladder, right kidney, small intestine
- (C) Appendix, caecum
- (D) Duodenum, Jejunum, Ileum

Correct Answer: (A) Liver, gall bladder, right colon

The right lumbar region, one of the nine abdominal regions, lies lateral to the umbilical region and contains portions of the liver (extending from above), the gallbladder (near the liver), and the ascending colon (right colon). This positioning supports digestive functions, with the liver aiding metabolism, the gallbladder storing bile, and the colon handling waste.

3.Spinal cord injury at the level of T1 and L1-L2 results in the following motor loss:

- (A) Quadriplegia

(B) Quadriplegia with intact diaphragmatic breathing

(C) Paraplegia

(D) Mixed loss of bowel, bladder and sexual function

- **Correct Answer:** (C) Paraplegia (Information from outside sources)
- **Rationale:**
 - **Paraplegia** refers to motor and sensory loss in the lower half of the body, usually occurring with injuries at the thoracic (T), lumbar (L), or sacral (S) levels.
 - Quadriplegia (tetraplegia) only occurs with injuries in the cervical (C) spine.

4.The venous return from the stomach and intestine drains into the:

(A) Mesenteric vein

(B) Internal iliac vein

(C) External iliac vein

(D) Portal vein

- **Correct Answer:** (D) Portal vein (Information from outside sources)
- **Rationale:**
 - The **portal vein** is formed by the union of the superior mesenteric and splenic veins, collecting nutrient-rich blood from the gastrointestinal tract (stomach, intestines) to deliver it to the liver.

5.Arterial supply of femoral head is by:

(A) Ligamentum teres artery

(B) Medial epiphyseal artery

(C) Hemiazygous artery

(D) Profunda femoris

Correct Answer: (D) Profunda femoris

The primary arterial supply to the femoral head comes from branches of the profunda femoris artery (deep femoral artery), particularly the medial and lateral circumflex femoral arteries, which form an extracapsular ring around the femoral neck. These retinacular branches (mainly from the medial circumflex femoral artery) penetrate the capsule to supply the weight-bearing posterior-superior femoral head in adults.

6. Appendix of epididymis is derived from:

(A) Wolfian duct

(B) Truncus arteriosus

(C) Para axial mesoderm

(D) Urogenital sinus

- **Correct Answer:** (A) Wolfian duct (Information from outside sources)
- **Rationale:**
 - The **Wolffian (mesonephric) duct** in males develops into the epididymis, vas deferens, and seminal vesicles.
 - The appendix of the epididymis is a vestigial remnant of the cranial end of this duct.

7. The position which facilitates diaphragm excursion and enhanced lung expansion:

(A) Semi fowler's position

(B) Fowler's position

(C) Dorsal recumbent position

(D) Prone position

- **Correct Answer:** (B) Fowler's position (Information from outside sources)
- **Rationale:**
 - **Fowler's position** (sitting upright at 45–60 degrees) allows gravity to pull the abdominal contents downward, away from the diaphragm.

- This maximises **diaphragmatic excursion** and allows for greater chest expansion during breathing.

8.The steps of hand washing when arranged in order includes:

(i) Wash Thumbs

(ii) Wash knuckles and fingers

(iii) Wash palm of hands

(iv) Wash back of hands

(A) (iii), (iv), (ii), (i)

(B) (iv), (iii), (ii), (i)

(C),(iii), (iv), (i), (ii)

(D) (iv), (iii), (i), (ii)

- **Correct Answer:** (A) (iii), (iv), (ii), (i) (Information from outside sources)

- **Rationale:**

- The WHO standard technique involves washing palms first (iii), then the backs of hands (iv), followed by the knuckles/interdigital spaces (ii), and finally the thumbs (i).

9.The recommended rate of flow of oxygen through a nasal cannula:

(A) 3-6 L/mt

(B) 1-4 L/mt

(C) 4-8 L/mt

(D) 6-10 L/mt

- **Correct Answer:** (B) 1 – 4 L/mt (Information from outside sources)

- **Rationale:**

- While nasal cannulas can theoretically deliver up to 6 L/min, rates above **4 L/min** are often avoided because they are highly drying to the nasal mucosa.

- Oxygen concentrations (FiO_2) delivered at these rates typically range from 24% to 44%.

10. According to principles of body mechanics, while lifting or carrying heavy objects, one must:

- (A) Hold the back straight
- (B) Have a wide base of support
- (C) Keep legs and arm closed
- (D) Hold the object away from the body

- **Correct Answer:** (b) Have a wide base of support (Information from outside sources)

- **Rationale:**

- A **wide base of support** (placing feet apart) lowers the centre of gravity and increases stability during lifting.
- Objects should be held *close* to the body to maintain the centre of gravity over the base of support.

11. The highest level of needs according to Maslow's hierarchy of basic human needs is:

- (A) Self esteem
- (B) Love and belongingness
- (C) Self actualization
- (D) Safety and security

Correct Answer: (C) Self actualization

Rationale: Maslow's pyramid places basic physiological needs at the bottom and self-actualization (achieving one's full potential) at the peak.

12. A concern for the welfare and well being of others is known as:

- (A) Ethics
- (B) Empathy
- (C) Integrity

(D) Altruism

Answer: (D) Altruism

Rationale: Altruism is the selfless concern or practice for the well-being of others.

13. Critical pathways include identification of variances that always define:

(A) Standards of practice

(B) Patient focused outcomes

(C) Patient problems

(D) Progress of patients

The correct answer is **(B) Patient focused outcomes**

Core Rationale Points:

- **Critical pathways** (clinical pathways/care pathways) are structured multidisciplinary care plans.
- They are designed around **expected patient outcomes** for a specific diagnosis or procedure.
- **Variances** mean deviations from the expected pathway or planned outcomes.
- Recording variances helps evaluate:
 - whether the **patient-focused outcomes** are achieved,
 - delays/problems in care,
 - quality improvement opportunities.

14. While opening a wrapped sterile item, the nurse must first:

(A) Open outermost flap away from the body, keeping arm outstretched and away from sterile field

(B) Open innermost flap towards the body first, keeping arm outstretched and away from sterile field

(C) Open side flap and pull to side

(D) Stand close to sterile package

Correct answer: (A)

Open outermost flap away from the body, keeping arm outstretched and away from sterile field.

Rationale

- Opening the **first flap away from the body** prevents the nurse's uniform or hands from accidentally contaminating the sterile field.
- Keeping the **arm outstretched** avoids passing over the sterile area, which maintains sterility.
- Standard sterile technique sequence:
 1. Open flap **away from body**
 2. Open side flaps
 3. Open flap **toward body last**

15.The temperature of water in the hot water bag which is considered safer for normal adult and child over 2 years is:

(A) 40.5°C–46°C

(B) 46°C–52°C

(C) 52°C–55°C

(D) 60°C–65°C

(B) 46°C–52°C

For adults and children over 2, this range(115 degree F-125 degree F)

is effective for heat therapy without causing burns.

16.What is the primary pathophysiologic process of spinal shock?

(A) Loss of control of cardiovascular mechanism

(B) Temporary loss of reflex function below the level of injury

(C) Exaggerated sympathetic response

(D) Damage to the lower motor neurons

(B) Temporary loss of reflex function...

Spinal shock is a clinical syndrome characterized by the temporary loss of all neurologic activity (reflexic/sensory/motor) below the injury.

17.The polydipsia and polyuria related to diabetes mellitus are primarily caused by:

(A) The release of ketones from cells during fat metabolism

(B) Fluid shifts resulting from the osmotic effect of hyperglycemia

(C) Damage to the kidneys from exposure to high levels of glucose

(D) Changes in RBC resulting from attachment of excessive glucose to Haemoglobin

(B) Fluid shifts... osmotic effect...

High glucose levels create an osmotic gradient that pulls water from cells into the vascular space, causing cellular dehydration (thirst) and diuresis.

18.A client has manifestations of autonomic dysreflexia. Which of these assessments would indicate possible cause for this condition?

(A) Kinked catheter tubing

(B) Extreme hypertension

(C) Skin breakdown over the coccyx

(D) Respiratory wheezes and stridor

(A) Kinked catheter tubing

Autonomic dysreflexia is often triggered by bladder distension; a kinked catheter is a common noxious stimulus.

19.The most effective intervention in decreasing absorption of an ingested poison is:

(A) Ipecac syrup

(B) Milk dilution

(C) Gastric lavage

(D) Activated charcoal

(D) Activated charcoal

Activated charcoal is the "gold standard" for gastric decontamination as it binds to toxins to prevent GI absorption.

20. Carotid Endarterectomy is done to:

(A) Decrease cerebral edema

(B) Reduce the brain damage that occurs during a stroke in evolution

(C) Prevent a stroke by removing atherosclerotic plaques blocking cerebral blood flow

(D) Provide a circulatory bypass around thrombotic plaques obstructing cranial circulation

(C) Prevent a stroke by removing...

This surgical procedure removes plaque from the carotid artery to restore blood flow and prevent future ischemic strokes.

21. Normal PR interval is:

(A) 0.2 seconds

(B) 0.12-0.20 seconds

(C) 0.010 seconds

(D) 0.3-0.5 seconds

(B) 0.12-0.20 seconds

The normal PR interval (time for atrial depolarization and AV delay) is 0.12 to 0.20 seconds (3–5 small squares on ECG).

22. Impetigo is an inflammatory skin disease caused by:

(A) Pneumococci

(B) Staphylococcus Aureus

(C) LICE

(D) Ring worm infection

(B) Staphylococcus Aureus

Impetigo is a highly contagious bacterial skin infection primarily caused by *Staph aureus* or *Strep pyogenes*.

23. An ABG value with decreased PaCO₂, increased pH with normal bicarbonate indicate:

(A) Metabolic Acidosis

(B) Respiratory Acidosis

(C) Metabolic Alkalosis

(D) Respiratory Alkalosis

(D) Respiratory Alkalosis

High pH (7.45) with low PaCO₂ (<35 mmHg) indicates alkalinity caused by "blowing off" CO₂ (hyperventilation).

24. Inability to recognize an object by feeling its size and shape is called:

(A) Astereognosis

(B) Agraphia

(C) Anosognosia

(D) Apraxia

(A) Astereognosis

This is a sensory loss where the patient cannot identify an object by touch despite having normal primary sensation.

25. Cushing's triad is observed in:

(A) Cholecystitis

(B) Head injury

(C) Cushing's syndrome

(D) Shock

(B) Head injury

Cushing's triad (bradycardia, hypertension/widening pulse pressure, and irregular breathing) signals increased intracranial pressure.

26.The technique that uses ultrasound vibrations to break up the opacified lens material is called:

(A) Evisceration

(B) Enucleation

(C) Phacoemulsification

(D) Intracapsular lens extraction

(C) Phacoemulsification

This modern cataract surgery uses ultrasonic energy to emulsify the lens before it is aspirated from the eye.

27.The ideal cuff pressure of a tracheostomy tube is:

(A) Less than 10 cm H₂O

(B) 18-20 cm H₂O

(C) 20-30 cm H₂O

(D) More than 30 cm H₂O

(C) 20-30 cm H₂O

This pressure range is sufficient to prevent aspiration/leakage while maintaining capillary perfusion to the tracheal mucosa.

28.The most common pathologic finding in individuals with sudden cardiac death is:

(A) Cardiomyopathies

(B) Mitral Value Disease

(C) Artherosclerotic Disease

(D) Left Ventricular Hypertrophy

(C) Atherosclerotic Disease

Coronary artery disease (atherosclerosis) is the underlying cause in the majority of sudden cardiac death cases.

29.The Oxygen delivery system chosen for the patient in acute respiratory failure should:

(A) Always be a low flow device such as nasal canula

(B) Correct the PaO₂ to a normal level as quickly as possible

(C) Administer positive pressure ventilation to prevent CO₂ narcosis

(D) Maintain the PaO₂ at 60 mm Hg or greater at the lowest O₂ concentration possible

(D) Maintain PaO₂ at 60 mm Hg...

The goal is to provide just enough oxygen to maintain tissue oxygenation (approx 90% SaO₂) without suppressing the respiratory drive.

30.The normal CSF protein is:

(A) 15-45 mg/dl

(B) 15-45 gm/dl

(C) 5-15 mg/dl

(D) 5-15 gm/dl

(A) 15-45 mg/dl

Normal Cerebrospinal Fluid (CSF) contains very small amounts of protein, typically ranging from 15 to 45 mg/dL.

31.Transverse cervical ligament is also known as:

(A) Pubocervical ligament

(B) Mackenrodt's ligament

- (C) Round ligament
- (D) Uterosacral ligament

Correct Answer: (B) Mackenrodt's ligament

Rationale: The transverse cervical ligament, also known as the cardinal ligament or Mackenrodt's ligament, is a major systemic support located at the base of the broad ligament that attaches the cervix to the lateral pelvic wall.

32.The placenta is derived from:

- (A) Trophoblast
- (B) Hypoblast
- (C) Morula
- (D) Epiblast

Correct Answer: (A) Trophoblast

Rationale: The placenta develops from the trophoblast layer of the blastocyst (specifically the chorion frondosum) and the maternal decidua basalis.

33.Antidote for Magnesium sulphate is:

- (A) Atropine sulphate
- (B) Sodium bicarbonate
- (C) Potassium chloride
- (D) Calcium gluconate

Correct Answer: (D) Calcium gluconate

Rationale: Calcium gluconate is the specific antagonist used to reverse magnesium toxicity (respiratory depression or cardiac arrest) by displacing magnesium from neuromuscular junctions.

34.Deep transverse arrest can occur in this position:

- (A) Right sacroanterior
- (B) Right occipitoposterior
- (C) Left mentoanterior
- (D) Left sacroposterior

Correct Answer: (B) Right occipitoposterior

Rationale: Deep transverse arrest occurs when the fetal head fails to rotate from a transverse or posterior position (like ROP or LOP) to an anterior position, becoming wedged in the transverse diameter of the pelvic outlet.

35. Superficial oedema and bruising in the subcutaneous fatty tissue around umbilicus is:

+1

- (A) Stallworthy sign
- (B) Bagel sign
- (C) Cullen's sign
- (D) Spalding sign

Correct Answer: (C) Cullen's sign

Rationale: Cullen's sign is a clinical finding of superficial bruising around the umbilicus, often indicating intra-abdominal hemorrhage, most commonly seen in acute pancreatitis or ruptured ectopic pregnancy.

36. Lynch suture is applied in:

- (A) Post partum haemorrhage
- (B) Hysterectomy
- (C) Episiotomy
- (D) Antepartum haemorrhage

Correct Answer: (A) Post partum haemorrhage

Rationale: The B-Lynch suture is a form of uterine compression suture used in obstetrics to mechanically compress an atonic uterus and control severe postpartum hemorrhage (PPH) during a laparotomy.

37. Following drugs are used for ovulation induction except:

- (A) Clomiphene citrate
- (B) Metformin
- (C) Gonadotrophins
- (D) Danazol

Correct Answer: (D) Danazol

Rationale: While Clomiphene, Metformin, and Gonadotrophins promote ovulation, Danazol is a synthetic steroid that suppresses the pituitary-ovarian axis and is used to treat endometriosis, not to induce ovulation.

38. What is the ratio of chest compression to ventilation while resuscitating new born?

- (A) 2:1
- (B) 3:1
- (C) 5:1
- (D) 4:1

Correct Answer: (B) 3:1

Rationale: Neonatal resuscitation guidelines specify a 3:1 ratio (90 compressions and 30 breaths per minute) to prioritize ventilation in the primarily respiratory-driven arrest of a newborn.

39. Transformation zone is closely associated with

- (A) Chronic cervicitis
- (B) Endometriosis
- (C) Cervical cancer

(D) Endometrial cancer

Correct Answer: (C) Cervical cancer

Rationale: The transformation zone (the area where squamous epithelium replaces columnar epithelium) is the most common site for abnormal cell changes and the development of cervical cancer.

40.The following are the components of Bishops score except:

(A) Station of presenting part

(B) Foetal heart rate

(C) Cervical dilatation

(D) Effacement of cervix

Correct Answer: (B) Foetal heart rate

Rationale: The Bishop score assesses cervical readiness for induction based on five factors: dilation, effacement, station, consistency, and position. Fetal heart rate is a monitoring tool but not a component of this score.

41.The recommended caloric requirement of 1 year old child is :

(A) 1000 kcal/day

(B) 1100 kcal/day

(C) 1200 kcal/day

(D) 1300 kcal/day

Correct Answer: (A) 1000 kcal/day

Rationale: On average, a 1-year-old requires approximately 1000 calories per day to support rapid growth and high metabolic activity.

42.An under developed small mandible is a characteristic feature of:

- (A) Down syndrome
- (B) Prader-Willi syndrome
- (C) Cri-du-chat syndrome
- (D) Pierre Robin syndrome

Correct Answer: (D) Pierre Robin syndrome

Rationale: Pierre Robin sequence/syndrome is characterized by a triad of micrognathia (small mandible), glossoptosis (downward displacement of the tongue), and often a cleft palate.

43. Which among the following statement is not true regarding the care of a normal new-born?

- (A) All babies should receive vitamin K prophylaxis
- (B) Mother shouldn't be informed of the danger signals
- (C) Breast feeding is initiated as soon as possible
- (D) Initial immunisation should be given before discharge

Correct Answer: (B) Mother shouldn't be informed of the danger signals

Rationale: Health education is vital; mothers must be explicitly taught danger signs (fever, lethargy, poor feeding) to ensure prompt medical intervention for the newborn.

44. The cranial suture found between two parietal bones is:

- (A) Frontal suture
- (B) Coronal suture
- (C) Sagittal suture
- (D) Lambdoid suture

Correct Answer: (C) Sagittal suture

Rationale: The sagittal suture runs down the midline of the skull, connecting the two parietal bones.

45. Pasteurised culture negative human milk can be preserved in human milk bank for a period of:

- (A) 2-4 months
- (B) 4-6 months
- (C) 6-8 months
- (D) 8-10 months

Correct Answer: (B) 4-6 months

Rationale: While freezer times vary, standard human milk bank protocols generally allow for storage of pasteurized donor milk for 3 to 6 months at 20 degree celcius

46. A child can draw a complete triangle at:

- (A) 2 Years
- (B) 3 Years
- (C) 4 Years
- (D) 5 Years

(D) 5 Years

Drawing a triangle is a fine motor milestone typically achieved by age 5.

47. Which among the following is seen in Marasmus, but not in Kwashiorkor?

- (A) Oedema
- (B) Fatty changes in liver
- (C) Good appetite
- (D) Anaemia

(C) Good appetite

Children with Marasmus are usually hungry, whereas those with Kwashiorkor often have anorexia (poor appetite).

48. Colic's pain, vomiting, red currant jelly stools and palpable lump per abdomen are diagnostic features of:

- (A) Hernia and triangulation
- (B) Intestinal atresia
- (C) Stricture or stenosis of intestine
- (D) Intussusception

(D) Intussusception

The triad of colicky pain, palpable "sausage-shaped" mass, and red currant jelly stools is classic for intussusception.

49. Pancreatic insufficiency, neutropenia, metaphyseal dyschondroplasia and growth retardation are characteristic features of:

- (A) Shwachman Syndrome
- (B) Wiskott-Aldrich Syndrome
- (C) Di George Syndrome
- (D) Holt-Oram Syndrome

(A) Shwachman Syndrome

This is a rare autosomal recessive disorder involving exocrine pancreatic insufficiency and bone marrow dysfunction.

50. Which among the following is a freeze sensitive vaccine?

- (A) BCG
- (B) OPV
- (C) DPT
- (D) Measles

(C) DPT

DPT, Hepatitis B, and TT vaccines are damaged by freezing, whereas BCG and OPV are heat-sensitive but freeze-tolerant

51. In the pathogenesis of Alzheimers Disease, the initial pathological event is:

- (A) Deposition of beta-amyloid
- (B) Formation of senile plaque
- (C) Formation of neurofibrillary tangles
- (D) Degeneration of neuron

(A) Deposition of beta-amyloid

According to the amyloid cascade hypothesis, the accumulation of β -amyloid plaques is the primary event that triggers subsequent neurodegeneration.

52. A client with borderline personality disorder, tend to idealize a friend as perfect at the start of the relationship. But at the first disappointment, the client suddenly considers the friend as a cheater. The defense mechanism used is:

- (A) Dissociation
- (B) Displacement
- (C) Undoing
- (D) Splitting

(D) Splitting

Splitting is a defense mechanism in Borderline Personality Disorder where individuals view others as "all good" or "all bad".

53. An excitatory neurotransmitter in high level can excite a neuron to such a extent that the cells die. This property often referred to as excitotoxicity is associated with:

- (A) Acetylcholine
- (B) Glutamate
- (C) Dopamine

(D) Epinephrine

(B) Glutamate

Glutamate is the primary excitatory neurotransmitter; excessive levels cause over-excitation leading to neuronal death (excitotoxicity).

54.A Forensic mental health nurse assist the law enforcement officers on the scene, assess the mental status of perpetrator, participate in critique of the incident and provide a link to mental health agency. This role is referred to as:

(A) Consultant

(B) Hostage Negotiator

(C) Forensic Nurse Examiner

(D) Criminal Profiler

(B) Hostage Negotiator

Specifically, assisting law enforcement at the scene and managing the mental status of a perpetrator describes this specialized forensic role.

55.A nurse must possess certain qualities to initiate and maintain therapeutic relationship. The following are the action-oriented conditions for facilitative nurse patient relationship except:

(A) Catharsis

(B) Role playing

(C) Empathy

(D) Confrontation

(C) Empathy

Empathy is a core *attitudinal* condition, whereas confrontation, role playing, and catharsis are considered *action-oriented* therapeutic interventions

56. When administering medication, the nurse needs to assess patient's response to medication. The nurse uses the following rating scale for assessment of Neuroleptic induced Parkinsonism for patient receiving antipsychotic:

- (A) Simpson Angus Rating Scale
- (B) Abnormal Involuntary Movement Scale
- (C) Clinical Global Impressions Scale
- (D) Toronto Side effect Scale

(A) Simpson Angus Rating Scale

This scale is specifically designed to measure the severity of extrapyramidal side effects, particularly Parkinsonism, in patients on antipsychotics.

57. A mental health nurse works in a community or home along with other team members to provide unlimited medical, psychosocial and rehabilitative services to adults with severe mental illness. This type of community intervention is referred as:

- (A) Traditional Mental Health Care
- (B) Multisystem therapy
- (C) Case Management
- (D) Assertive community therapy

(D) Assertive community therapy

ACT (Assertive Community Treatment) provides comprehensive, multidisciplinary, "wraparound" services in the patient's natural environment.

58. A client who has recently diagnosed to have cancer, says that the investigations are wrong and it can't happen to him. The nurse who provides care to this client recognize this as an:

- (A) Appraisal focused coping
- (B) Anticipatory coping
- (C) Problem focused coping
- (D) Emotion focused coping

(D) Emotion focused coping

Denial (investigations are wrong) is a form of emotion-focused coping used to reduce immediate distress when a situation feels uncontrollable.

59. A client with mania makes a comment "The nurse during day shift did not allow me to go out of the ward. You are such a nice person, who is very loving and caring, I know you will definitely allow me". The new assigned nurse also did not allow him to go out. Here the behaviour of the nurse is based on the principle that

- (A) Consistency is to be maintained
- (B) Avoid unnecessary increase in patient anxiety
- (C) Maintain realistic nurse patient relationship
- (D) Use self-understanding as a therapeutic tool

(A) Consistency is to be maintained

To prevent "splitting" of staff and maintain boundaries with manic patients, the nursing team must provide consistent limits.

60. A client presented with a condition in which a thought never entertained before is incorrectly regarded as a repetition of a previous thought. The nurse recognises that it is:

- (A) Jamais vu
- (B) Déjà entendu
- (C) Déjà pense
- (D) Déjà vu

(C) Déjà pense

Déjà pensé is the illusion that a new thought has been thought before; *déjà vu* refers to a place, and *déjà entendu* refers to a sound.

61. Specificity of a test refers to its ability to detect:

- (A) True positive

(B) True negative

(C) False positive

(D) False negative

(B) True negative

Specificity measures the ability of a test to correctly identify those without the disease (true negatives).

62. Causal association of factors can be revealed by:

(A) Case control study

(B) Cohort study

(C) Cross sectional study

(D) Experimental study

(D) Experimental study

While cohort studies show association, randomized experimental studies (RCTs) provide the strongest evidence for causation.

63. Ratio of the incidence of the disease among exposed and the incidence of the disease among non-exposed is called:

(A) Population attributable risk

(B) Odds ratio

(C) Relative risk

(D) Attributable risk

(C) Relative risk

Relative risk is the ratio of the incidence of disease in the exposed group to the incidence in the non-exposed group.

64. Corpulence index means:

- (A) Measurement of obesity
- (B) Measurement of hemoglobin
- (C) Measurement of blood glucose
- (D) Measurement of blood pressure

(A) Measurement of obesity

The Corpulence Index (or Ponderal Index) is a measure of leanness or body mass relative to height, used to assess obesity.

65.The term tracking of blood pressure refers to:

- (A) 24 hr monitoring of bp for every week
- (B) Follow up of bp over a period of years from early childhood into adult life
- (C) Control of bp by medication
- (D) Monitoring bp daily for one month

(B) Follow up... from early childhood

Tracking refers to the tendency for individuals to maintain their relative rank of blood pressure within a population over time.

66.In cold chain process, the walk-in coolers stores vaccine upto

- (A) 1 month
- (B) 3 months
- (C) 6 months
- (D) 9 months

(B) 3 months

In the cold chain, walk-in coolers (WICs) at the regional or state level are designed for bulk storage of vaccines for up to 3 months.

67.The number of live births per 1000 women in the reproductive age group in a given year is called:

- (A) Birth rate
- (B) Gross reproduction rate
- (C) Total fertility rate
- (D) General fertility rate

(D) General fertility rate

GFR is calculated as the number of live births per 1000 women of childbearing age (15-44 or 15-49).

68.The purpose of Sentinel surveillance is to:

- (A) Establish natural history of disease
- (B) Detect the total number of cases of a disease in a community
- (C) Identifying the missing cases in a community
- (D) Plan intervention

(C) Identifying the missing cases

Sentinel surveillance uses a sample of reporting sites to identify trends and "hidden" cases that routine surveillance might miss.

69.The simplest test widely used in India for the diagnosis of Kala-azar is:

- (A) Antigen test
- (B) CB-NAAT
- (C) Line Probe Assay
- (D) Aldehyde test of Napier

(D) Aldehyde test of Napier

The Napier's Aldehyde test is a simple, albeit non-specific, bedside screening test for Visceral Leishmaniasis (Kala-azar) in endemic areas.

70. Management technique which makes more detailed planning & more comprehensive supervision is called:

- (A) Programme evaluation and review technique
- (B) Critical path method
- (C) Input out analysis
- (D) Management by objectives

(A) Programme evaluation and review technique

PERT is a management tool used to schedule, organize, and coordinate tasks within a project for detailed supervision.

71. To which of the four levels of Miller's pyramid does OSCE conform to?

- (A) know how
- (B) does
- (C) shows how
- (D) knows

(C) shows how

Miller's Pyramid levels are: Knows (Knowledge), Knows How (Competence), Shows How (Performance/OSCE), and Does (Action).

72. To which of the following domains does nondiscursive communication belong to?

- (A) affective domain
- (B) psychomotor domain
- (C) communicative domain
- (D) cognitive domain

(B) psychomotor domain

Nondiscursive communication (gestures, posture, movement) is a level of the psychomotor domain in Bloom's taxonomy.

73. Chief exponents of pragmatism (i) Herbert Spencer (ii) Arnold Barkley (iii) John Dewey (iv) William James

(A) [cite_start](#) and (ii)

(B) [cite_start](#) and (iv)

(C) [cite_start](#) and (iv)

(D) [cite_start](#) and (iii)

(C) (iii) and (iv)

John Dewey and William James are the two most prominent figures associated with the philosophy of Pragmatism.

74. Programmed learning is based on:

(A) Behavioral learning theory

(B) Cognitive learning theory

(C) Social learning theory

(D) Moral development theory

(A) Behavioral learning theory

Programmed learning is based on B.F. Skinner's operant conditioning, which falls under behavioral learning theory.

75. What does Lewin's Field theory purpose?

(A) Children move through four different stages of learning

(B) Individual's knowledge acquisition can be directly related to observing others

(C) Mental growth occurs by integrating simpler concepts into higher level concepts

(D) Behaviour is the result of individual and environment

(D) Behaviour is the result of individual and environment

Kurt Lewin's Field Theory states that behavior is a function of the person and their psychological environment ($B = f(P, E)$).

76. Which among the following is the most appropriate instructional strategy that helps a learner to link something new and seemingly unfamiliar, to something already understood:

+1

(A) interleaving technique

(B) socratic questioning

(C) interactive simulation

(D) tutorial instruction

(B) socratic questioning

Socratic questioning uses a series of guided questions to help learners connect new info to their existing knowledge base.

77. Ipsative assessment refers to:

(A) Self assessment

(B) Norm referenced assessment

(C) Criterion referenced assessment

(D) Authentic assessment

(A) Self assessment

Ipsative assessment compares a learner's current performance against their own previous performance, rather than against others.

78. Cathartic theory of education deals with:

(A) purification of student's spirit

- (B) cleaning up of school premises
- (C) release of negative emotions
- (D) ensuring success in student's career

(C) release of negative emotions

In educational and psychological terms, catharsis refers to the purging or release of repressed emotions to achieve relief.

79.The spearman brown prophecy formula relates to:

- (A) difficulty index of test item
- (B) discriminating power of test item
- (C) validity of test
- (D) reliability of test

(D) reliability of test

The Spearman-Brown formula is used by psychometricians to estimate the reliability of a test after changing its length.

80.Which of the following statements is false about counselling?

- (A) It is preventive
- (B) It operates at emotional level
- (C) Its focus is not on solution to the problem but on understanding of the problem
- (D) It concentrates on personal problems and social issues

The **false statement** is:

(A) It is preventive

rationale:

Option	True/False	Key Reason

Option	True/False	Key Reason
(A) It is preventive	✗ FALSE	Counselling is primarily intervention-oriented , addressing problems after they arise . Prevention is more aligned with psychoeducation or public health initiatives
(B) It operates at emotional level	✓ True	Counselling helps clients express, understand, and manage emotions
(C) Focus is on understanding, not solution	✓ True	Counselling prioritizes deep understanding of the problem before moving to solutions
(D) Concentrates on personal & social issues	✓ True	Addresses personal challenges (emotional distress, mental health) and social issues (community pressures, societal expectations)

81.Role of devil's advocate in a team is to:

- (A) reduce loss, theft and pilferage
- (B) reduce group think
- (C) reduce turnover of employees
- (D) reduce employee absenteeism

(B) reduce group think

A "devil's advocate" is assigned to challenge the majority view, preventing the team from falling into "groupthink" errors.

82.Which among the following statements are false about Japanese Management style?

- (A) Stands for lifetime employment
- (B) Implicit control measures are employed

- (C) Hierarchical in nature
- (D) Collective decision making

(C) Hierarchical in nature

This is **False**; Japanese management (Theory Z) typically emphasizes flat structures and collective, bottom-up decision making.

83. According to McGregor which among the following statements are true? (i) theory X leader believes that subordinates are extrinsically motivated (ii) theory X leader believes that subordinates are intrinsically motivated (iii) theory Y leader believes that subordinates are intrinsically motivated (iv) theory Y leader believes that subordinates are extrinsically motivated

+4

- (A) [cite start](#), (iii)
- (B) [cite start](#), (iv)
- (C) [cite start](#) only
- (D) [cite start](#) only

(A) (i), (iii)

McGregor's Theory X assumes people need external rewards/control (extrinsic), while Theory Y assumes people seek internal satisfaction (intrinsic).

84. In six sigma model, number of acceptable errors is:

- (A) 0.34 per one million occurrences
- (B) 0.43 per one million occurrences
- (C) 4.3 per one million occurrences
- (D) 3.4 per one million occurrences

(D) 3.4 per one million

In the Six Sigma quality model, a process is considered "six sigma" if it produces no more than 3.4 defects per million opportunities.

85.The specification of contents, methods and relationships of jobs in order to satisfy technological and organisational requirements as well as the social and personal requirements of the job holder is:

- (A) Job analysis
- (B) Job design
- (C) Job description
- (D) Job specification

(B) Job design

Job design is the process of defining how work will be performed and what tasks will be required in a specific job.

86.Four fifths rule is connected with:

- (A) Labour turnover analysis
- (B) Internal transfer
- (C) Inventory turnover ratio
- (D) Adverse impact in selection process

(D) Adverse impact in selection

The four-fifths rule is a guideline used to determine if a selection process has an adverse impact on a protected group.

87.Job shadowing is connected with:

- (A) Work assessment
- (B) Apprenticeship
- (C) Job analysis
- (D) Job descriptive index

Correct Answer: (B) Apprenticeship

Job shadowing involves observing a professional in their daily work to understand job responsibilities, skills, and the work environment, making it a form of on-the-job learning. It connects most closely with apprenticeship, as both emphasize practical, hands-on exposure—

job shadowing acts as an introductory step where individuals observe before engaging in active participation under mentorship.

88. Which among the following increases as group size increases?

- (A) Job satisfaction
- (B) Group cohesiveness
- (C) Social loafing
- (D) Group interaction

(C) Social loafing

Social loafing is the tendency for individuals to exert less effort when working in a group compared to working alone; it increases with group size.

89. Formula for calculating realistic time frame for project completion using PERT ('o' – optimistic time, 'm' – most likely time; 'p' – pessimistic time) :

- | | |
|-------------------------------|--------------------------------|
| (A) $\frac{o + 4m + p}{6}$ | (B) $\frac{2'o' + 2m + 2p}{6}$ |
| (C) $\frac{4'o' + 2m + p}{6}$ | (D) $\frac{o + 2m + 4p}{6}$ |

Correct Answer: (A) (o + 4m + p)/6

The standard PERT formula calculates expected time as a weighted average: optimistic (o) once, most likely (m) four times (highest probability), and pessimistic (p) once, divided by 6.

90. Inventory shrinkage cost refers to:

- (A) selling obsolete stock
 - (B) reduction in resale value
 - (C) managing frequency of ordering
 - (D) cost of pilferage
- (D) cost of pilferage**

Inventory shrinkage refers to the loss of products between the point of manufacture/purchase and the point of sale (theft, damage, or error).

91. Best strategy for improving non performing worker:

- (A) coaching
- (B) mentoring
- (C) training
- (D) counselling

Correct answer: (B) Mentoring

rationale (in points)

- **Mentoring provides continuous, personalized guidance** over time, helping the non-performing worker understand root-cause problems (skills, attitude, motivation, or workplace issues) rather than just fixing symptoms.
- A **mentor–mentee relationship builds trust**, allowing the worker to openly discuss challenges, receive tailored feedback, and gradually improve both behavior and confidence.
- Mentoring aligns **individual goals with organizational objectives**, so the worker becomes more motivated and engaged, leading to **sustainable performance improvement**, not just short-term fixes.

92. ———— is appropriate for the development of an employee who wants to take an additional responsibility.

- (A) providing negative feedback
- (B) offering ostentatious living conditions
- (C) giving stretch assignments
- (D) all of the above

(C) giving stretch assignments

Stretch assignments are tasks given to employees that are beyond their current knowledge or skill level to help them grow and prepare for more responsibility.

93. Gaussian distribution refers to:

- (A) normal distribution

- (B) binomial distribution
- (C) poisson distribution
- (D) continuous uniform distribution

(A) normal distribution

Gaussian distribution is the formal name for the "normal" or "bell curve" distribution in statistics.

94. Formula for Standard Error of Mean (SEM) (SD = Standard Deviation; N = Sample Size):

(A) $\frac{\sqrt{N}}{S\Delta}$

(B) $\frac{N}{\sqrt{S\Delta}}$

(C) $\frac{\sqrt{S\Delta}}{N}$

(D) $\frac{S\Delta}{\sqrt{N}}$

(B) $\frac{SD}{\sqrt{N}}$

The Standard Error of the Mean (SEM) is calculated by dividing the Standard Deviation (SD) by the square root of the sample size (N).

95. An idea or image specifically invented for a new research, usually abstract in nature:

- (A) concept
- (B) stimulus
- (C) construct
- (D) variable

(C) construct

A construct is an abstract idea (like "intelligence" or "satisfaction") specifically created or "constructed" for a research purpose.

96. Process by which dominant social groups impose their values and beliefs on others:

- (A) cultural globalisation
- (B) cultural hegemony
- (C) cultural materialism
- (D) cultural domains

(B) cultural hegemony

Cultural hegemony is the dominance of one social group over others by means of imposing its cultural values as the "norm."

97.A cultural theory that challenges binary notions of sexuality and instead suggests that sexualities are cultural constructs:

- (A) Queer theory
- (B) Conflict theory
- (C) Social functional theory
- (D) Symbolic interaction theory

(A) Queer theory

Queer theory challenges the idea that sexual identities are fixed or binary, viewing them instead as socially and culturally constructed.

98.The event or perceived event that triggers a reaction in which people become excited to the point of losing their critical thinking abilities and acting irrationally:

- (A) violence
- (B) antisocial behaviour
- (C) terrorism
- (D) mass hysteria

(D) mass hysteria

Mass hysteria (or mass psychogenic illness) involves the rapid spread of irrational behavior or physical symptoms through a group.

99.A faculty heuristic in which you fixate on a single aspect of a problem to find a solution:

- (A) negativism

(B) hindsight

(C) anchoring bias

(D) representative bias

(C) anchoring bias

Anchoring bias is a cognitive heuristic where an individual relies too heavily on the first piece of information offered (the "anchor") when making decisions.

100. Social readjustment rating scale is designed to:

* (A) measure stress * (B) coping strategies * (C) self harming behaviours * (D) depression

(A) measure stress

The Holmes and Rahe Social Readjustment Rating Scale (SRRS) is a tool used to measure the amount of stress a person has experienced based on significant life events.