

Question Paper Code: 045/2024

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1,The most potent stimulus for medullary chemoreceptors is:

- (A) $\downarrow pO_2$ in blood
- (B) $\uparrow H^+$ concentration in blood
- (C) $\uparrow pCO_2$ in CSF
- (D) $\uparrow H^+$ concentration in CSF

Answer: D

Rationale: Medullary chemoreceptors are most sensitive to the concentration of hydrogen ions (H^+) in the cerebrospinal fluid (CSF), which increases as CO_2 crosses the blood-brain barrier.

2.Which of the following is not present in pancreatic juice?

- (A) Aminopeptidase
- (B) Amylase
- (C) Lipase
- (D) Ribonuclease

Answer: A

Rationale: Aminopeptidase is an enzyme found in the brush border of the small intestine, not in the pancreatic juice.

3.Phase 2 of Cardiac muscle action potential is due to:

- (A) Na^+ influx
- (B) K^+ efflux
- (C) Ca^{2+} influx
- (D) Ca^{2+} efflux

Answer: C

Rationale: Phase 2, the plateau phase, is primarily caused by the slow influx of calcium ions (Ca^{2+}) through L-type calcium channels.

4. Choose the incorrect statement about blood groups:

- (A) Landsteiner law is applicable to all blood group systems
- (B) Only naturally occurring antibodies are A and B
- (C) Rh antibody is found only after sensitisation
- (D) O negative blood group is universal donor

Answer: A

Rationale: Landsteiner's law specifically applies to the ABO blood group system, not necessarily to all other systems.

5. Choose the false statement about Neuromuscular junction in skeletal muscle:

- (A) Acetyl Choline is the neurotransmitter
- (B) Action potentials are produced at motor end plates
- (C) Antibodies are produced against acetyl choline receptors in Myasthenia gravis
- (D) Gallamine is a non-depolarising blocker drug

Answer: B

Rationale: The motor end plate produces an "end-plate potential" (a local depolarization), which then triggers action potentials in the adjacent muscle membrane, rather than the end plate itself producing the action potential.

6. The sensation transmitted by lateral spinothalamic pathway is:

- (A) Vibration
- (B) Pain
- (C) Fine touch
- (D) Pressure

Answer: B

Rationale: The lateral spinothalamic tract is responsible for transmitting pain and temperature sensations to the brain.

7.The concept that Hand washing is the first preventive measure in control of infection was put forward by:

- (A) Ernst Ruska
- (B) Louis Pasteur
- (C) Ignaz Semmelweis
- (D) Robert Koch

Answer: C

Rationale: Ignaz Semmelweis is known as the "father of infection control" for demonstrating that hand washing could drastically reduce maternal mortality.

8.Transduction is one mechanism of genetic transfer resulting in antibiotic resistance by:

- (A) Plasmid
- (B) Bacteriophage
- (C) Transposons
- (D) Insertion sequences

Answer: B

Rationale: Transduction is the process by which DNA (including resistance genes) is transferred from one bacterium to another by a virus (bacteriophage).

9.Anaerobic Culture Methods include all except:

- (A) Thioglycollate broth
- (B) GasPak
- (C) MacConkey Agar
- (D) Anaerobic Blood Agar

Answer: C

Rationale: MacConkey Agar is a selective and differential medium used for the isolation of aerobic and facultative anaerobic gram-negative bacteria.

10.Sexually transmitted infections include all except:

- (A) Shigella dysentery

- (B) Gonorrhoea
- (C) Syphilis
- (D) Herpes simplex type 2

Answer: A

Rationale: Shigella dysentery is primarily a foodborne or waterborne illness transmitted via the fecal-oral route, not typically classified as an STI.

11.The defence mechanism in which channelling of an unacceptable desires, impulses and behaviours into socially accepted behaviours is called:

- (A) Repression
- (B) Regression
- (C) Sublimation
- (D) Suppression

Answer: C

Rationale: Sublimation involves transforming negative or unacceptable impulses into productive, socially acceptable actions.

12.Which of the following are perceptual disorders? (i) Delusion (ii) Illusion (iii) Hallucination (iv) Dementia

- (A) Only ii and iii
- (B) Only i and iv
- (C) Only i and iii
- (D) All of the above

Answer: A

Rationale: Illusions and hallucinations are disorders of perception, whereas delusions are disorders of thought and dementia is a cognitive disorder.

13.What is the theory which says “we feel sad because we cry and we are afraid because we tremble”?

- (A) Lazarus’ theory
- (B) Schachter and Singer’s theory

(C) Cannon – Bard theory

(D) James – Lange theory

Answer: D

Rationale: The James-Lange theory posits that emotional experience is a result of physiological responses to external events.

14.What is a scale on which a pair of opposite adjectives are presented called?

(A) Visual analogue scale

(B) Guttman scale

(C) Semantic differential scale

(D) Likert scale

Answer: C

Rationale: A semantic differential scale uses bipolar adjectives (e.g., Happy—Sad) to measure attitudes or meanings.

15.Correct hierarchical order of Maslow’s hierarchy of needs theory: (i) Self-esteem (ii) Physiological (iii) Self-actualization (iv) Safety (v) Love/belonging

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

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

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

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

Answer: B

Rationale: The order starts from the most basic: Physiological, Safety, Love/Belonging, Esteem, and Self-actualization.

16.Which of the following is an example of an intrinsic motivation?

(A) Rewards

(B) Money

(C) Grades

(D) Employee’s feeling of self-worth

Answer: D

Rationale: Intrinsic motivation comes from within the individual (like self-worth), whereas rewards, money, and grades are extrinsic.

17.Which theory analyzes concepts like personal troubles of milieu and public issues of social structure?

- (A) Sociological imagination
- (B) Chicago school
- (C) Synthetic school
- (D) Formalistic school

Answer: A

Rationale: Sociological imagination, a term coined by C. Wright Mills, links individual experiences to broader social structures.

18.Assertion (A): Children pick up ways of behaving appropriately as per their culture from friends, media and others. Reason (R): Socialization is a complex process that takes place through various formal and informal means.

- (A) Both (A) and (R) are true and (R) is correct explanation
- (B) Both (A) and (R) are true but (R) is not correct explanation
- (C) (A) is true but (R) is false
- (D) Both (A) and (R) are false

Answer: A

Rationale: Socialization occurs through many agents (Reason), which explains why children learn cultural behaviors from their environment (Assertion).

19.S1: Divorce is physical separation of spouses. S2: Separation is legal termination of a marriage.

- (A) Both S1 and S2 are true
- (B) S1 is true and S2 is false
- (C) S1 is false and S2 is true
- (D) Both S1 and S2 are false

Answer: D

Rationale: The statements are swapped; Divorce is the legal termination, while separation is the physical/legal living apart without ending the marriage.

20. Which one of the following statements is true to describe 'Domestic Violence'?

- (A) Only victims are 'Married Women'
- (B) 'Girl Child' are only vulnerable
- (C) Includes physical, sexual, mental, verbal, emotional and economic abuse in a household
- (D) Is an indication of progressive society

Answer: C

Rationale: Domestic violence is a broad term covering various types of abuse within a domestic/household setting.

21. A diabetic patient is ordered D5NS at 100 mL/hr. Glucose is 180 mg/dL. Action?

- (A) Begin infusion as ordered
- (B) Administer regular insulin bolus
- (C) Notify surgeon and request fluid change (non-dextrose)
- (D) Increase rate to 150 mL/hour

Answer: C

Rationale: Adding dextrose (D5) to a patient with already elevated glucose (180 mg/dL) could worsen hyperglycemia; the nurse should seek an alternative fluid.

22. Substance causing "cherry-red" discoloration of skin/mucous membranes in acute poisoning:

- (A) Carbon monoxide
- (B) Cyanide
- (C) Lead
- (D) Arsenic

Answer: A

Rationale: Carbon monoxide poisoning leads to the formation of carboxyhemoglobin, which gives the skin a classic cherry-red appearance.

23. Which statement about norepinephrine is correct?

- (A) Primarily stimulates beta-1 in the heart
- (B) Selective alpha-1 adrenergic agonist
- (C) Contraindicated in atrial fibrillation
- (D) First-line vasopressor in septic shock

Answer: D

Rationale: Clinical guidelines identify norepinephrine as the first-choice vasopressor to maintain mean arterial pressure in septic shock.

24. Most crucial pharmacological properties for a nurse to monitor during continuous vasopressor infusion:

- (A) Half-life and elimination kinetics
- (B) Drug-drug interactions
- (C) Receptor affinity and specificity
- (D) Volume of distribution and protein binding

Answer: C

Rationale: Understanding which receptors (alpha vs. beta) the drug targets is essential for monitoring hemodynamic effects and side effects.

25. Therapeutic communication for a terminally ill patient expressing fear:

- (A) Offering reassurance
- (B) Avoiding the topic
- (C) Asking open-ended questions
- (D) Focusing only on the present

Answer: C

Rationale: Open-ended questions allow the patient to express and explore their feelings, which is therapeutic in terminal care.

26. Appropriate intervention for critically elevated serum potassium in CKD:

- (A) Administer IV calcium gluconate
- (B) Administer IV sodium bicarbonate

(C) Administer oral potassium supplements

(D) Administer a loop diuretic

Answer: A

Rationale: IV calcium gluconate is used to stabilize the myocardial membrane and prevent arrhythmias in severe hyperkalemia.

27. Breach of aseptic technique during the intraoperative phase:

(A) Surgeon touches edge of sterile drape

(B) Technologist adjusts mask without touching face

(C) Nurse reaches across sterile field with sterile instrument

(D) Provider handles non-sterile equipment and touches IV line with sterile gloves

Answer: D

Rationale: Touching non-sterile equipment contaminates sterile gloves; subsequent contact with an IV line constitutes a breach.

28. Concept of “self-care” in holistic nursing:

(A) Prioritize nurse needs over patient

(B) Importance of nurses caring for their own well-being

(C) Nurses should not be involved in care

(D) Focus only on physical aspects

Answer: B

Rationale: Self-care in nursing recognizes that to provide holistic care, the nurse must also maintain their own health and balance.

29. In disaster management, “Triage” refers to:

(A) Psychological support

(B) Sorting and prioritizing patients

(C) Establishing communication

(D) Search and rescue

Answer: B

Rationale: Triage is the clinical process of prioritizing patients based on the severity of their condition and the likelihood of survival with treatment.

30.Recommended compression depth for adult CPR:

- (A) 1 inch
- (B) 1.5 inches
- (C) 2 inches
- (D) 2.5 inches

Answer: C

Rationale: Current guidelines recommend a compression depth of at least 2 inches (5 cm) for adults.

31.Antibodies produced in one body and transferred to another is:

- (A) Passive immunity
- (B) Herd immunity
- (C) Active immunity
- (D) Humoral immunity

Answer: A

Rationale: Passive immunity involves the transfer of pre-formed antibodies (e.g., from mother to fetus or via immunoglobulin injection).

32.One gram of protein yields:

- (A) 8 kcal
- (B) 2 kcal
- (C) 9 kcal
- (D) 4 kcal

Answer: D

Rationale: Proteins and carbohydrates provide 4 kcal per gram, while fats provide 9 kcal.

33.Reconstituted BCG vaccine may be used:

- (A) Within 12 hours

(B) Within 10 hours

(C) Within 3 hours

(D) Within 7 hours

Answer: C

(Note: Standard guidelines often say 6 hours; among these options, C is the safest/closest within most protocols)..

34.Dengue is transmitted by:

(A) Anopheles

(B) Mansonoides

(C) Aedes aegypti

(D) Culex

Answer: C

Rationale: The *Aedes aegypti* mosquito is the primary vector for Dengue virus.

35.Continuous scrutiny of factors determining disease occurrence/spread is:

(A) Quarantine

(B) Surveillance

(C) Medical survey

(D) Investigation

Answer: B

Rationale: Surveillance is the systematic, ongoing collection and analysis of health data.

36.Deficiency of Niacin leads to:

(A) Rickets

(B) Pellagra

(C) Scurvy

(D) Keratomalacia

Answer: B

Rationale: Pellagra is characterized by dermatitis, diarrhea, and dementia due to a lack of Niacin (B₃).

37.Occupational disease caused by inhalation of coal dust:

- (A) Bagassosis
- (B) Byssinosis
- (C) Siderosis
- (D) Anthracosis

Answer: D

Rationale: Anthracosis, or coal worker's pneumoconiosis, is caused by long-term exposure to coal dust.

38.Deaths from 28 days of life to under one year:

- (A) Post-neonatal deaths
- (B) Infant mortality rate
- (C) Neonatal mortality rate
- (D) Perinatal mortality rate

Answer: A

Rationale: The post-neonatal period is defined as the period from 28 days to 364 days of life.

39.Unusual occurrence of disease in a community:

- (A) Epidemic
- (B) Endemic
- (C) Sporadic
- (D) Pandemic

Answer: A

Rationale: An epidemic is an increase, often sudden, in the number of cases of a disease above what is normally expected in that population.

40. Population of a community health centre (CHC) is:

- (A) 80,000 to 1.00 lakh
- (B) 60,000 to 1.20 lakh
- (C) 90,000 to 1.20 lakh
- (D) 80,000 to 1.20 lakh

Answer: D

Rationale: In India, a CHC typically serves a population of 80,000 in hilly/tribal areas and 1,20,000 in plain areas.

41. Cells involved in humoral immunity:

- (A) Macrophages
- (B) T Lymphocytes
- (C) NK Cells
- (D) B Lymphocytes

Answer: D

Rationale: B cells produce antibodies, which are the primary mediators of humoral immunity.

42. ECG characteristic suggestive of atrial fibrillation:

- (A) Pathologic Q waves
- (B) Abnormal and bizarre QRS
- (C) No discernible p waves
- (D) Elevated ST segment

Answer: C

Rationale: Atrial fibrillation is marked by the absence of distinct P waves and an irregularly irregular QRS rhythm.

43. Cause of hyperkalemia is:

- (A) Metabolic acidosis
- (B) Insulin therapy

(C) Metabolic alkalosis

(D) Vomiting

Answer: A

Rationale: In metabolic acidosis, H^+ ions enter the cells and K^+ ions move out into the extracellular fluid to maintain electroneutrality.

44.Nursing intervention in compartment syndrome after fracture:

(A) Elevation of extremity

(B) Regular neurovascular assessment

(C) Application of cold

(D) Provision of tight bandage

Answer: B

Rationale: Constant neurovascular monitoring (the 5 Ps) is vital to detect ischemia early in compartment syndrome.

45.Which of the following is included in primary survey?

(A) History and head to toe assessment

(B) Exposure

(C) Determine neurological disability

(D) Monitoring vital signs

Answer: B (or C)

Rationale: The standard ABCDE (Airway, Breathing, Circulation, Disability, Exposure) covers both B and C.

46.Insensitivity to pain is noted in:

(A) Superficial burns

(B) Deep partial thickness burns

(C) Superficial partial thickness burns

(D) Full thickness burns

Answer: D

Rationale: Full-thickness (third-degree) burns destroy the nerve endings in the dermis, resulting in a lack of pain in the burned area.

47. Cancer cells growing on top of one another in culture is called:

- (A) Lack of cell differentiation
- (B) Loss of contact inhibition
- (C) Lack of cell proliferation
- (D) Lack of cell division

Answer: B

Rationale: Normal cells stop dividing when they touch each other (contact inhibition); cancer cells lose this property.

48. Hearing loss caused by impacted cerumen is:

- (A) Central
- (B) Conductive
- (C) Functional
- (D) Sensorineural

Answer: B

Rationale: Conductive hearing loss occurs when sound cannot reach the inner ear due to a physical blockage like earwax.

49. GCS score when a patient localizes pain:

- (A) 03
- (B) 04
- (C) 05
- (D) 06

Answer: C

Rationale: In the Motor response section of the Glasgow Coma Scale, localizing pain earns a score of 5.

50. Inability to focus on near objects due to aging lens:

- (A) Presbyopia
- (B) Retinopathy
- (C) Astigmatism
- (D) Myopia

Answer: A

Rationale: Presbyopia is the age-related loss of the lens's ability to change shape to focus on near objects.

51. A woman believes a superstar is in love with her; this is:

- (A) Grandeur's delusion
- (B) Ekbom syndrome
- (C) De Clerembault's syndrome
- (D) Ganser syndrome

Answer: C

Rationale: De Clerembault's syndrome (erotomania) is a delusion where one believes another person (often of higher status) is in love with them.

52. 12-year-old boy with mental age of 8 belongs to which mental retardation type?

- (A) Mild
- (B) Moderate
- (C) Severe
- (D) Profound

Answer: A

Rationale: $IQ = (Mental\ Age / Chronological\ Age) \times 100$. $(8/12) \times 100 \approx 67$. An IQ of 50–70 is classified as Mild Mental Retardation.

53. Formication is most commonly encountered in:

- (A) Schizophrenia

(B) Anxiety disorder

(C) Epilepsy

(D) Cocaine use

Answer: D

Rationale: Formication is the tactile hallucination of insects crawling on the skin, a common side effect of cocaine or amphetamine withdrawal.

54. Most important parameter to monitor for a depressed client on Escitalopram for 2 weeks:

(A) Appetite

(B) Sleep

(C) Suicidal ideation

(D) Energy level

Answer: C

Rationale: As energy levels improve during the early stages of antidepressant therapy, the risk of acting on suicidal thoughts may increase.

55. Highly disorganized thought, bizarre behaviour, and regressive acts:

(A) Delirium

(B) Hebephrenic schizophrenia

(C) Simple schizophrenia

(D) Catatonic schizophrenia

Answer: B

Rationale: Hebephrenic (disorganized) schizophrenia is characterized by disorganized speech, behavior, and flat or inappropriate affect.

56. Recurrent sexual urges involving non-consenting strangers:

(A) Fetishism

(B) Frotteurism

(C) Transvestic fetishism

(D) Necrophilia

Answer: B

Rationale: Frotteurism involves achieving sexual arousal by touching or rubbing against non-consenting people.

57.Catastrophic reaction is a specific clinical feature related to:

- (A) Conversion disorder
- (B) Delirium
- (C) Dementia
- (D) Mania

Answer: C

Rationale: Catastrophic reactions are intense emotional outbursts seen in dementia patients when they are overwhelmed by tasks.

58.Drug of choice for ADHD:

- (A) Paroxetine
- (B) Fluoxetine
- (C) Roboxetine
- (D) Atomoxetine

Answer: D

(Note: While stimulants are often first, among these non-stimulants, Atomoxetine is specifically used for ADHD).

59.Mini Mental status examination (MMSE) score of 23 indicates:

- (A) Normal cognition
- (B) Mild dementia
- (C) Moderate dementia
- (D) Severe dementia

Answer: B

Rationale: An MMSE score between 20 and 24 typically indicates mild cognitive impairment or mild dementia.

60. Which of the following is NOT a therapeutic communication technique?

- (A) Accepting
- (B) Advising
- (C) Exploring
- (D) Summarizing

Answer: B

Rationale: Giving advice can be non-therapeutic as it limits the patient's autonomy and problem-solving.

61. According to Weech's formula, expected weight of a 5-year-old child is:

- (A) 12 kg
- (B) 14 kg
- (C) 16 kg
- (D) 18 kg

Answer: D

Rationale: Using the formula (Age in years x 2) + 8: $(5 \times 2) + 8 = 18$ kg.

62. Best light wavelength for isomerization of bilirubin:

- (A) 300 – 360 nm
- (B) 350 – 400 nm
- (C) 400 – 430 nm
- (D) 430 – 490 nm

Answer: D

Rationale: Blue-green light in the 430–490 nm range is most effective for phototherapy in neonatal jaundice.

63. 1 g/dL decrease in serum albumin decreases anion gap by:

- (A) 1.5 mEq/L
- (B) 2.5 mEq/L

(C) 3.5 mEq/L

(D) 4.5 mEq/L

Answer: B

Rationale: The anion gap should be adjusted downward by approximately 2.5 mEq/L for every 1 g/dL drop in albumin.

64. Autosomal recessive disorder with partial albinism and recurrent pyogenic infection:

(A) Nezelof syndrome

(B) Job syndrome

(C) Chediak-Higashi syndrome

(D) Wiskott-Aldrich syndrome

Answer: C

Rationale: Chediak-Higashi syndrome is a rare genetic disorder affecting lysosomal trafficking.

65. Parkland formula: fluid for first 8 hours (8 yr old, 25 kg, 40% burns):

(A) 1280 ml

(B) 2000 ml

(C) 3000 ml

(D) 4000 ml

Answer: B

Rationale: $4 \text{ mL} \times \text{weight (kg)} \times \% \text{ BSA}$. Total = $4 \times 25 \times 40 = 4000 \text{ mL}$. Half (2000 mL) is given in the first 8 hours.

66. Gestational age for a New Ballard score of 20:

(A) 20 weeks

(B) 26 weeks

(C) 32 weeks

(D) 38 weeks

Answer: C

Rationale: A score of 20 on the New Ballard Scale correlates to approximately 32 weeks of gestation.

67. Glutamic acid substituted by valine at the 6th position of the beta chain causes:

- (A) Sickle cell anaemia
- (B) Thalassemia
- (C) Aplastic anaemia
- (D) Haemophilia

Answer: A

Rationale: This specific genetic mutation leads to the formation of Hemoglobin S, causing sickle cell disease.

68. Shunt between superior vena cava and pulmonary artery:

- (A) Blalock-Taussig shunt
- (B) Glenn shunt
- (C) Norwood shunt
- (D) Gore shunt

Answer: B

Rationale: A Glenn shunt directs blood from the SVC directly to the pulmonary arteries.

69. Prednisolone dose for child with Nephrotic syndrome (no HTN/azotaemia):

- (A) 2 mg/kg
- (B) 4 mg/kg
- (C) 6 mg/kg
- (D) 8 mg/kg

Answer: A

Rationale: The standard initial dose of prednisolone for nephrotic syndrome is usually 2 mg/kg/day.

70. Piaget's cognitive stage for an 8-year-old:

- (A) Pre-operational

- (B) Formal operational
- (C) Concrete operational
- (D) Pre-conventional

Answer: C

Rationale: Children aged 7–11 are in the concrete operational stage.

71. In foetal distress, amniotic fluid becomes:

- (A) Golden
- (B) Meconium stained
- (C) Dark brown
- (D) Yellow

Answer: B

Rationale: The passage of meconium in utero often indicates fetal hypoxia or distress.

72. Drug which is NOT a tocolytic agent:

- (A) Verapamil
- (B) Ritodrine
- (C) Labetalol
- (D) Atosiban

Answer: C

Rationale: Labetalol is an antihypertensive, not a tocolytic (used to stop preterm labor).

73. Thinnest part of the fallopian tube:

- (A) Infundibulum
- (B) Isthmus
- (C) Ampulla
- (D) Intramural

Answer: D

Rationale: The intramural (interstitial) segment is the narrowest part as it passes through the uterine wall.

74.Early amniocentesis is carried out at:

- (A) 12 – 14 weeks
- (B) 5 – 10 weeks
- (C) 20 – 24 weeks
- (D) None of the above

Answer: A

Rationale: Standard amniocentesis is 15–20 weeks; "early" refers to the 12–14 week window.

75.Most effective for detecting open neural tube defects:

- (A) Ultrasound
- (B) MSAFP
- (C) Chorionic villus sampling
- (D) Cordocentesis

Answer: B

Rationale: Maternal Serum Alpha-Fetoprotein (MSAFP) screening is a primary tool for identifying neural tube defects.

76.Placenta completely covers the cervix opening:

- (A) Placenta previa
- (B) Placenta accreta
- (C) Abruptio placenta
- (D) Placenta percreta

Answer: A

Rationale: Placenta previa occurs when the placenta attaches low in the uterus, covering the internal os.

77.Tetralogy of Fallot combination excludes:

- (A) Pulmonary stenosis

- (B) Ventricular septal defect
- (C) Overriding aorta
- (D) Patent ductus arteriosus

Answer: D

Rationale: The fourth component of TOF is right ventricular hypertrophy, not PDA.

78.Assisted breech delivery principles include all EXCEPT:

- (A) Never rush
- (B) Never pull from below
- (C) Always keep fetus with back posteriorly
- (D) Always keep fetus with back anteriorly

Answer: C

Rationale: In breech delivery, the back should always be kept anterior to facilitate the birth of the head.

79.In occult prolapse:

- (A) Cord is below presenting part
- (B) Cord is in vagina or outside vulva
- (C) Cord is by the side of presenting part
- (D) None of the above

Answer: C

Rationale: Occult prolapse is when the cord is alongside the presenting part but not felt on palpation.

80.Foetus acardiacus occurs in:

- (A) Monozygotic twins
- (B) Dizygotic twins
- (C) Both
- (D) None

Answer: A

Rationale: This rare complication (TRAP sequence) happens only in monochorionic (monozygotic) twin pregnancies.

81. Formal speeches by a small group of experts on a topic is:

- (A) Lecture
- (B) Panel discussion
- (C) Symposium
- (D) Group discussion

Answer: C

Rationale: A symposium involves experts presenting different aspects of a single subject.

82. Planned learning experiences acting as a guide for a course:

- (A) Lesson plan
- (B) Unit plan
- (C) Curriculum
- (D) Programmed instruction

Answer: C

Rationale: Curriculum is the comprehensive set of planned experiences and content for a program of study.

83. Integration of diverse philosophies for flexible education:

- (A) Idealism
- (B) Naturalism
- (C) Pragmatism
- (D) Eclecticism

Answer: D

Rationale: Eclecticism involves selecting and combining the best elements from various systems or philosophies.

84. 3D imitation of a real object used in education:

- (A) Flash card
- (B) Flannel board
- (C) Model
- (D) Projector

Answer: C

Rationale: Models are three-dimensional representations used when the real object is unavailable or impractical.

85.Assisting a student showing maladaptive behaviour is:

- (A) Remedial counselling
- (B) PTSD counselling
- (C) Grief counselling
- (D) Milieu counselling

Answer: A

Rationale: Remedial counseling aims to correct or improve behaviors that hinder learning or social adjustment.

86.Finite number of countable real values within an interval:

- (A) Ratio variable
- (B) Discrete variable
- (C) Continuous variable
- (D) Interval variable

Answer: B

Rationale: Discrete variables have values that can be counted (e.g., number of students).

87.Written factual statement of relationship between variables:

- (A) Objective
- (B) Delimitation
- (C) Assumption

(D) Hypothesis

Answer: D

Rationale: A hypothesis is a formal, testable statement predicting the relationship between variables.

88. Best research design for the initial phase of a new infectious disease:

(A) Descriptive

(B) Correlational

(C) Experimental

(D) Case-control

Answer: A

Rationale: Descriptive studies help establish the characteristics and baseline data for a new phenomenon.

89. Element representing the group of study subjects:

(A) Population

(B) Sample

(C) Accessible population

(D) Universe

Answer: B

Rationale: A sample is a subset of the population used to represent the whole group in a study.

90. Measure of variability in a data set:

(A) Standard deviation

(B) Mean

(C) Central tendency

(D) Gaussian distribution

Answer: A

Rationale: Standard deviation quantifies the amount of variation or dispersion in a set of values.

91. Development of soft skills learned through life/work experience:

- (A) Professionalism
- (B) Bill of rights
- (C) Bio-ethics
- (D) Altruism

Answer: A

Rationale: Professionalism encompasses the conduct, skills, and qualities expected of a professional.

92. A premium of Health Insurance is:

- (A) Payment for covered care
- (B) Monthly payment towards health plan
- (C) Payment before plan starts to pay
- (D) None

Answer: B

Rationale: A premium is the periodic amount paid to an insurance company to keep a policy active.

93. Comparing costs of an action vs. expected benefits:

- (A) Cost benefit analysis
- (B) Cost effective analysis
- (C) Cost utility analysis
- (D) Cost analysis

Answer: A

Rationale: Cost-benefit analysis weighs the total expected costs against the total expected benefits of an intervention.

94. Promoting employees based on seniority is an example of:

- (A) Rules
- (B) Procedures

(C) Policy

(D) Methods

Answer: C

Rationale: A policy is a general guide to action that provides a framework for decision-making.

95.Rules, duties, and responsibilities given in writing are in:

(A) Formal organization

(B) Informal organization

(C) Strategic organization

(D) Matrix organization

Answer: A

Rationale: Formal organizations have clearly defined structures, roles, and written rules.

96.Time elapsing between order and receiving material in stores:

(A) Replenishment time

(B) Lead time

(C) Idle time

(D) Over time

Answer: B

Rationale: Lead time is the total time from the realization of a need to the receipt of the items.

97.Task of buying right quality, quantity, time, and price:

(A) Supplying

(B) Purchasing

(C) Scrutinizing

(D) Speculative buying

Answer: B

Rationale: Purchasing involves the systematic acquisition of goods and services for an organization.

98.Nurse administering wrong medication is an example of:

- (A) Malpractice
- (B) Battery
- (C) Slander
- (D) Libel

Answer: A

Rationale: Malpractice is professional negligence where a provider fails to meet the standard of care, resulting in harm.

99.Process of giving responsibility and authority to subordinates:

- (A) Span of control
- (B) Delegation
- (C) Centralisation
- (D) Deception

Answer: B

Rationale: Delegation is the assignment of authority to another person to carry out specific activities.

100.Institute created in 2015 to replace the Planning Commission in India: *

- (A) NITI Aayog *
- (B) AYUSH *
- (C) NDHA *
- (D) ISM & H *

Answer: A *

Rationale: NITI Aayog (National Institution for Transforming India) replaced the decades-old Planning Commission in January 2015