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PART – II (GENERAL KNOW)

11 – 20

The largest country in Asia is:

- Russia
- China
- India
- Kazakhstan

The salt range is located near:

- Jhelum
- Kashmir
- Chitral
- Gwadar

The following planet is the biggest:

- Pluto
- Jupiter
- Uranus
- Neptune

The main elements of a state include territory, population, government and:

- Sovereignty
- Army
- Parliament
- Religion

Pakistan is situated in the following imaginary equator line:

- Tropic of Capricorn
- Tropic of Cancer
- Tropic of Scorpio
- Tropic of Leo

The Universal Declaration of Human Rights, 1948, was adopted by:

- United Nations General Assembly
- United Nations Security Council
- League of Nations
- Magna Carta

The first president of the All India Muslim League was:

- Nawab Waqar Ul Mulk
- Sir Agha Khan
- Sir Syed Ahmed Khan
- Nawab Saleem Ul Mulk

The historic Summit of the Organization of Islamic Countries held in Lahore was its:

- First Summit
- Second Summit
- Third Summit
- Fourth Summit

The Radcliff Award is known for:

- Boundary Commission
- Best British Officer Award
- Resources Distribution Commission
- Population Distribution Commission

The preamble document for the Constitution of Pakistan is:

- 14 Points
- Objective Resolution
- Quaid-e-Azam's Speeches
- 1935 British Indian Act

PART – III (TEACHING & LEARNING PEDAGOGIES)

21 – 40

1. Which learning style relies most on interpreting charts, maps, and diagrams?

- Aural
- Visual
- Read/Write
- Kinesthetic

2. A teacher providing hints and prompts to help a student solve a math problem is applying which Vygotskian principle?

- Scaffolding
- Equilibration
- Assimilation
- Accommodation

3. 'Students will solve 8/10 fraction' is an example of:

- Standard
- Outcome
- Method
- Tool

4. The best teaching method for explaining many facts in a short time refers to:

- Lecture
- Discussion
- Demonstration
- Brainstorming

5. Growth spurts in height and weight occur most rapidly during:

- Infancy and adolescence
- Middle childhood only
- Early childhood
- Late adulthood

6. A teacher pairing a shy child with a friendly peer is using which strategy:

- Social scaffolding
- Classical conditioning
- Academic acceleration
- Cognitive restructuring

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56. A system is heated by 20 KJ, and the surrounding does 60 KJ of work on it. What will be the change in total energy of the system?

- a. 40 KJ b. 20 KJ c. 80 KJ d. 75 KJ

57. The valency of Carbon in C_2H_2O is:

- a. 4 b. -4 c. 2 d. -2

58. The rate of reaction is increased by 2 times when the reactant concentration is quadrupled, then the order of the reaction will be:

- a. 1st order b. Half order c. Zero order d. 2nd order

59. Bond energy, Bond length and Bond order are three essential Bond parameters which describe:

- a. Type of a bond c. Strength of a bond
b. Energy of a bond d. Polarity of a bond

60. A Covalent Bond is formed by:

- a. Transfer of electron c. Sharing of electron
b. Loss of an electron d. Gain of an electron

61. A balloon filled with O_2 gas is placed in a freezer, which acts as a system here:

- a. Freezer c. Electricity
b. O_2 d. Ice inside the freezer

62. Which of the following is an acidic buffer?

- a. $HCl + NaCl$ c. $CH_3COOH + NH_4Cl$
b. $HCl + NH_4Cl$ d. $HCl + NaCl$

63. Which type of reaction K_c is directly proportional to temperature?

- a. Exothermic c. Neutral
b. Endothermic d. Precipitation

64. Carbonated water is a solution of:

- a. Carbon in water under high pressure
b. Carbon is oxidised by water under high pressure
c. Carbon is reduced by water at high temperature
d. Water oxidised by carbon at high temperature

PART - VI (PHYSICS)

65-76

65. Which logic gate produces an output of 1 only when both inputs are 1?

- a. OR gate b. NOT gate c. AND gate d. NAND gate

66. Two perpendicular vectors have magnitudes 3 N and 4 N. The resultant is:

- a. 5 N b. 6 N c. 7 N d. 1 N

67. Decimal value of binary number (1011)₂ is:

- a. 9 b. 10 c. 11 d. 12

68. Two resistors, 4 Ω and 6 Ω , are connected in parallel. Equivalent resistance is approximately:

- a. 1.5 Ω b. 2.4 Ω c. 4.8 Ω d. 10 Ω

69. If the half-life of a radioactive substance is 10 years, the fraction remaining after 20 years will be:

- a. 1/2 b. 1/4 c. 1/8 d. 1/16

70. According to Newton's First Law, a body continues its state of rest or uniform motion unless acted upon by:

- a. Balanced force b. Unbalanced force c. Energy d. Momentum

71. If the temperature of a gas doubles in Kelvin at constant pressure, its volume will:

- a. Halve b. Double c. Remain same d. Become four times

72. In Bohr's model, electrons revolve around the nucleus in:

- a. Random paths c. Straight lines
b. Fixed energy levels d. Elliptical random paths

73. Boyle's law states that at constant temperature, the pressure of a gas is:

- a. Directly proportional to volume c. Independent of volume
b. Inversely proportional to volume d. Proportional to temperature

Page

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27. The following skill involves the ability to present content:
- Reinforcement skill
 - Questioning skill
 - Explanation skill
 - Blackboard writing skill
28. The MOOC stands for:
- Multiplex Open Offline Courses
 - Modern Open-Source Computer
 - Massive Open Online Courses
 - Master of Open Computer
29. In authentic assessment, the following methods and tools are employed as test methodologies, EXCEPT:
- Portfolio
 - Acting in a play
 - Paper-pencil test
 - Science-laboratory practical
30. A high school teacher assigns a task to design a model for water purification from industrial pollutants, integrating math, science, technology, and the arts. This is an example of:
- Drill-and-Practice
 - Project-Based Learning
 - Demonstration Technique
 - Flipped Classroom
31. If we compare STEAM and project-based learning, which one encourages the blending of diverse academic areas more?
- Both are problem-solving
 - Both encourage equally
 - STEAM
 - PBL
32. Learning is an enduring change in the mechanisms of behaviour. For the optimization of student learning, it is mandatory that the teacher can do all, EXCEPT:
- Develop a test
 - Develop a test schedule
 - Administer the test in the classroom
 - Score and report the test score
33. Classroom management requires a lot of multitasking and includes all the following, EXCEPT:
- Micromanaging student choices
 - What to teach and how to teach it?
 - Routines, schedules, and time management
 - Disparate student levels and backgrounds
34. According to Piaget, children in the preoperational stage are most likely to:
- Use logical operations on concrete objects
 - Engage in egocentric and symbolic play
 - Think abstractly about hypothetical situations
 - Demonstrate object permanence
35. Why does PBL improve student motivation?
- Reduces workload
 - Provides more testing and repeating
 - Connects learning to real-world experiences
 - Allows passive listening
36. ADDIE Model stands for:
- Assess, Develop, Deliver, Integrate and Express
 - Apply, Design, Decorate, Integrate and Engage
 - Application, Decorate, Demonstrate, Instruct and Examine
 - Analyze, Design, Develop, Implement and Evaluate
37. Establishing clear expectations is a foundational strategy in classroom management. Which of the following is NOT a benefit, EXCEPT:
- Reduced disruptions
 - Allow students to facilitate the teacher in planning
 - Allow teachers to spend more time on instruction
 - Create a safe and predictable learning environment
38. Two middle school students respond differently to academic challenges: one confident, the other fearful of failure. This reflects:
- Variations in the "Initiative vs. Guilt" stage
 - Success vs. difficulty in "Industry vs. Inferiority"
 - Differences in "Identity vs. Role Confusion"
 - Variations in "Autonomy vs. Shame and Doubt"
39. Kounin, in his classroom management model, highlighted a term 'withitness' that shows a teacher's:
- Ability to be friendly and humorous with students
 - Knowledge of the subject matter being taught
 - Skill in designing engaging cooperative learning activities
 - Awareness of what is always happening in all parts of the classroom

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