

Question Paper - II

General Instructions

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box for your stres.

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9. On the OMR Answer Sheet, only properly filled circles (as shown in the picture should fill the consider
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Those you ánswering by anthere eweatners.
Please put your full name and Seat Number on both othe OMR Answer Sheet and the Question Paper.
- This Question Paper contains 100 Multiple Choice Questions. Do not separate it.**

Reading Comprehension (1-4)

Read the passage and answer the questions at the end.

Social media has changed the concept of community by opening up countless avenues for users to connect with the larger community. Through this virtual medium, community is no longer the immediate community in which we live; it has now expanded to include the entire world. Today, one has become a part of a global community. People in one part of the globe can actively engage with others across the globe. Also, it has opened new vistas for students and professionals, who can easily interact with their counterparts in any part of the world and exchange views on matters of mutual interest. Students can also easily interact with educators and researchers in any part of the world and gain from their knowledge and wisdom.

1. In the age of social media, one becomes a part of a larger community if:
 - a. One writes a letter to his relatives
 - b. One sends an email to his boss
 - c. One comments on a celebrity's Facebook post
 - d. One writes an essay on one's laptop
2. Based on the ideas of the passage, a student shares his research with scholars from other countries via social media. This shows that:
 - a. Communication is primarily enhanced within one's own city
 - b. Social networking extends communication to other communities
 - c. Social media eases communication between the students of the same institution
 - d. Social media restricts the interactions to friendships
3. According to the passage, which of the following is not discussed as a form of social media engagement?
 - a. Academic interests
 - b. Professional activities
 - c. Political pursuits
 - d. Research activities
4. The main idea of the passage is:
 - a. The concept of community is different in the age of social media
 - b. Students can easily engage with educators and researchers globally
 - c. Learners like using online learning over traditional classrooms
 - d. In modern society, the only means of communication is through social media

Select the most appropriate meaning of the underlined word from the given choices.

5. Rather than be involved in clandestine meetings, they did everything quite openly.
 - a. Exposed
 - b. Covert
 - c. Collaborative
 - d. Open
6. Identify the adverb from the given sentence:
They frequently go to library to study with friends.
 - a.
 - b.
 - c.
 - d.
7. He saw a movie. Change into Future Perfect Tense:
 - a. He will have seen a movie
 - b. He will has seen a movie
 - c. He will have been seen a movie
 - d. He will have see a movie
8. Whose mobile did you use? Change the Voice:
 - a. Whose mobile is used by you?
 - b. Whose mobile was used by you?
 - c. Whose mobile is used by me?
 - d. Whose mobile was used by me?
9. Ahmed requested me to give him his pen. Change the Narration:
 - a. Ahmed said to me, "give him my pen."
 - b. Ahmed said to me, "Please give me my pen."
 - c. Ahmed said to me, "Please give him pen."
 - d. Ahmed said to me, "Please give him his pen."

10. Identify the sentence with correct punctuation:
- Allama Iqbal the poet of the East, is famous for his poetry.
 - Allama Iqbal, the poet of the East is famous for his poetry.
 - Allama Iqbal, the poet of the East, is famous for his poetry.
 - Allama Iqbal, the poet of the East, is famous for his poetry.

PART – II (GENERAL KNOWLEDGE)

11 – 20

11. Identify the continent referred in to the 'Frozen Desert':
- Australia
 - Antarctica
 - Europe
 - Asia
12. The continent is referred to as an 'island continent':
- Asia
 - Africa
 - Australia
 - Antarctica
13. The value of imported goods (e.g., machinery, nil) is significantly higher than the value of exported goods (e.g., rexilies, rixe). This situation best describes a presistent problem known as:
- National Date
 - Trade Defiell
 - Inflation
 - Low GDP
14. The Suez Canal connects which two bodies of water:
- Pacific Ocean and Atlantic Coater
 - Mediterranean Sea and Red Sea
 - Arabian Sea and Bay of Bengal
 - Caribbean Sea and Gulf of Mexico
15. The term 'searcity' in economics is defined as:
- Having too many resources
 - Abundance of goods
 - No need to make choices
 - Unlimited wants and limited resources
16. The Water Apportionment Accord of 1991 deals with the distribution of water resources among:
- Pakistan and India
 - Agricultural and industrial sectors
 - Urban and rural areas
 - The provinces of Pakistan
17. The Muhammad Ali Bogra Formula was presented as a framework for:
- Economic development
 - A federal constitution
 - Foreign policy
 - Educational reform
18. If a new national campaign successfully encourages the use of locally manufactured goods over imported luxury items, the most direct result will be:
- An improvement in the trade balance and support for domestic industries
 - A guarameed increase in the country's literacy rate and employment ratio
 - A change in the national budget deficit, leading to more unemployment among youth
 - The Immediate creation of a regional economic union
19. Analyze the functions of the United Nations organs and determine which is the most powerful in matters of international peace and security, explaining why:
- The General Assembly, because all member marber have equal representation
 - The Security Council, because its five pertament members have veto power
 - The International Court of Justice, because it settles legal disputes
 - The Economic and Court Council, because it controls the UN's budget
20. The climatic region is characterized by severy winters, short cool summers, and vegetation like mosses and lichens is called:
- Equatorial Region
 - Hot Desert Region
 - Tundra Region
 - Mediterrancen Region

PART – III (TEACHING & LEARNING PEDAGOGIES)

21 – 40

21. Linking science lessons with the local ecosystem shows:
- Alignment
 - Bloom's level
 - Real-life link
 - Management

22. The ability of a teacher to maintain students' attention by changing voice, gestures, and activities is called:
- Stimulus variation
 - Stimulus variation
 - Closure
 - Explanation
23. Smiles and praise show:
- Probing
 - Reinforcement
 - Questioning
 - Closure
24. The teacher explains, but students stay confused, which voices in a lack of?
- Probing
 - Variation
 - Clarity
 - Reinforcement
25. The following teaching method uses real-life situations:
- Story Telling
 - Lecturer
 - Case Study
 - Demonstration
26. Internal communications within institutions are done through:
- LAN
 - EBB
 - WAN
 - MMS
27. Emotional self-regulation develops significantly during:
- Infancy
 - Early Childhood
 - Adolescence
 - Late Adhithood
28. According to Piaget, the stage in which children begin to think logically about concrete events is called:
- Sensorimotor
 - Propperational
 - Concrete Operational
 - Formal Operational
29. Performance assessment requires students to demonstrate knowledge and skills, including the processes they use to solve problems. Which of the following is not an example of performance assessment?
- Demonstration
 - Achievement Tests
 - Science Edhilation
 - Academic Portfolio
30. A teacher notices a student excels in lab experiments. Which strategy would best support the student?
- Increase special demoeamentent
 - Assign more readings
 - Provide more differents
 - Play audio lectures
31. Two adolescents respond differently to the same peer pressure situation. This suggests differences in:
- Cognitive growth
 - Reflexes
 - Social coping skills
 - Sentory perception
32. The following best defines a Student Learning Outcome:
- A list of teaching activities
 - A specific statement of what a student will achieve
 - A broad curriculum standard
 - An assessment strategy
33. If a teacher assigns a lesson plan of Engineering + Visual Arts, which STEAM skills are applied here?
- A list personal and interpersonal skills
 - Specificm-solving and creativity skills
 - Broad building skills
 - An assesment skills
34. If is tech method is lesson plan and of Engineering during a PBL project is:
- Interporessional test sceets
 - Problem-solving and creativity
 - Team buildment and reflection portfolios
 - Collaboorative
34. The best method to assess students' collaboration and a PBL project is:
- A combination of numbers and alphabets
 - Surprize sut
 - A philosophy of emotional intelligence
 - Surprize
 - A thinking with tech
 - Oral viva only
 - A Digital Circuits Theory
36. The following statements are about formative assessment, EXCEPT:
- It is used to assign marks and grades at the end of a term or year
 - It is used to revise written drafts based on the feedback
 - It is used to assess student progress during learning
 - It is used to provide providation to improve teaching and learning
37. Effective feedback should be:
- Specific, family, and actionable
 - Given only on summative assessments
 - Comparative ranking of students against each other
 - Primarily positive to avoid hurting students' feelings

After returning graded essays, a teacher dedicates class time for students to read the feedback and set one specific goal for their next writing assignment. This strategy is effective because it:

- a. Takes less time than the teacher writing comments
 - b. Ensures that students actually process the feedback and take ownership of their improvement
 - c. Allows the teacher to avoid difficult conversations with students
 - d. Is a fun activity that breaks up the routine
39. The right classroom management plan does all, EXCEPT:
- a. Provides opportunities for social learning
 - b. Provides opportunities for academic learning
 - c. Provides opportunities for intrapersonal learning
 - d. Provides opportunities for domestic learning
40. During group work, a student consistently dominates the conversation and dismisses others' ideas. Which of the following is the most proactive strategy to address this?
- a. Assign specific, rotating roles to each group member
 - b. Allow the group members to resolve the conflict on their own
 - c. Separate the student from the group and have them work independently
 - d. Warning the student publicly to show other students the consequences of such behaviour

PART - IV (BIOLOGY)

41 - 52

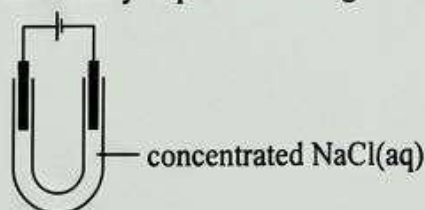
41. The organelle that acts as a 'suicide bag' of the cell is:
- a. Peroxisome
 - b. Lysosome
 - c. Dictyosome
 - d. Glyoxisome
42. In case of failed kidneys, the dialysis machine performs the function of:
- a. Digestion
 - b. Excretion
 - c. Reproduction
 - d. Circulation
43. A student prepares a slide of carrot root and observes a prominent large vacuole under the microscope. This shows that the cell is of a/an:
- a. Eukaryote
 - b. Virus
 - c. Animal
 - d. Plant
44. In an experiment, a scientist replaces the energy source from glucose to fatty acid; the stage of respiration directly affected is:
- a. NADP synthesis
 - b. Glycolysis
 - c. Krebs Cycle
 - d. Electron transport chain
45. A student observes an amoeba under the microscope engulfing the provided food particles. This shows that protists are:
- a. Only autotrophic
 - b. Saprophyte
 - c. Macroscopic
 - d. Capable of heterotrophic nutrition
46. A small population endemic to an Island faces a sudden disaster that wiped 90% of the population. Such phenomena is called:
- a. Bottleneck effect
 - b. Founder effect
 - c. Divergent radiation
 - d. Adaptive radiation
47. In an experiment of an enzymatic reaction, the addition of chemical X, structurally similar to the substrate, halts the product formation. The same reaction is restored by increasing substrate concentration. This best explains:
- a. Competitive inhibition
 - b. Noncompetitive inhibition
 - c. Allosteric activation
 - d. Active activation
48. Lamarckism is best explained as:
- a. Change is driven by the struggle for existence
 - b. Acquired characters are determined by genetic makeup
 - c. Mutations drive variation
 - d. Inheritance is affected by the use and disuse of organs

49. A karyotype of a newborn with Down syndrome shows an error in gamete formation. This observed condition is most likely the result of:
- Improper segregation of homologous chromosomes
 - Crossing over between non-sister chromatids
 - Improper cytokinesis between 2 phases of meiosis
 - Alteration in cell division checkpoints
50. During a field trip in a desert ecosystem, researchers observed a decline in the population of secondary consumers (snakes). The most likely consequence will be:
- Increase in the population of primary consumers
 - Decrease in the population of primary consumers
 - No effect on the population of primary consumers
 - Termination of the population of primary consumers
51. The correct sequence of urinary excretion is:
- Kidneys → Ureter → Urethra → Urinary Bladder
 - Kidneys → Urinary Bladder → Ureter → Urethra
 - Kidneys → Ureter → Urinary Bladder → Urethra
 - Kidneys → Urethra → Ureter → Urinary Bladder
52. The temperature beyond optimum reduces the enzyme's function because:
- It increases substrate bonding
 - It alters the enzyme's structure
 - It reduces ATP production
 - It accelerates substrate-product complex formation

PART – V (CHEMISTRY)

53 – 64

53. Which method can be used to separate a mixture of salt and water to obtain both parts of the mixture?
- Crystallization
 - Distillation
 - Evaporation
 - Filtration
54. Work done by a thermodynamic system is a state function:
- True
 - False
 - Only sometimes
 - Maximum time
55. Electricity is passed through concentrated aqueous Sodium Chloride. Inert electrodes are used:



What is formed at the negative electrode?

- Chlorine
 - Oxygen
 - Hydrogen
 - Sodium
56. Burning fossil fuels releases heat energy. Which substance is not a fossil fuel?
- Coal
 - Hydrogen
 - Natural gas
 - Petroleum
57. What is the maximum mass of Chromium Cr that can be obtained from 76g of Chromium (III) oxide, Cr_2O_3 ?
- 48g
 - 52g
 - 104g
 - 152g
58. Which of the following is an example of a neutral salt?
- NaCl
 - Na_2CO_3
 - CH_3COONa
 - NH_4Cl

Which of the statement(s) below is/are true?

- 1 Elements in the same group have the same number of electrons
- 2 Elements in the same group have similar chemical reactions
- 3 Elements in the same group have different mass and proton numbers

- a. 1, 2 and 3
 b. Only 1 and 2
 c. Only 2 and 3
 d. Only 1

60. Magnesium, Phosphorus and Chlorine are elements in the same period of the Periodic Table. Which row describes the type of oxide formed by each of these elements?

	Magnesium	Phosphorus	Chlorine
a.	acidic	acidic	basic
b.	acidic	basic	basic
c.	basic	acidic	acidic
d.	basic	basic	acidic

61. Electronegativity increases:

- a. Down the group
 b. Left to right in a period
 c. Increases with the gain of electrons
 d. Does not change from top to bottom in group

62. What effect would be using powdered Magnesium instead of ribbon have on the rate of reaction between the metal and Hydrochloric Acid?

- a. The rate would decrease
 b. The rate would increase
 c. No effect on the rate
 d. The rate can't be determined

63. A student put 25.0 cm³ of dilute hydrochloric acid into a conical flask. The student added 2.5 g of solid sodium carbonate and measured the change in temperature of the mixture:

Which apparatus does the student need to use to obtain the most accurate results?

- a. Balance, Measuring Cylinder, Thermometer
 b. Balance, Pipette, Stopwatch
 c. Balance, Pipette, Thermometer
 d. Burette, Pipette, Thermometer

64. Which statement about the manufacture of ammonia by the Haber Process is correct?

- a. The reactants and product are elements
 b. The reactants and product are gases
 c. The reactants and product are compounds
 d. The reactants are both obtained from the air

PART - VI (PHYSICS)

65 - 76

65. The dimensions for the physical quantity 'work' are:

- a. MLT
 b. LT²M⁻¹
 c. ML²T⁻²
 d. M²L³T

66. The refractive index of glass is approximately:

- a. 0.5
 b. 1.0
 c. 1.5
 d. 2.0

67. Which of the following radiations has the greatest penetrating power?

- a. Alpha
 b. Beta
 c. Gamma
 d. X-rays

68. If the frequency of a wave is doubled, its wavelength (at constant speed) becomes:

- a. Unchanged
 b. Halved
 c. Doubled
 d. Zero

69. The process of splitting a heavy nucleus into smaller nuclei is called:

- a. Fusion
 b. Fission
 c. Ionization
 d. Radiation

70. For a fixed mass of gas at constant pressure, its volume is directly proportional to its absolute temperature. The statement reflects which of the following laws:

- a. Boyle's law
 b. Charles' law
 c. Avogadro's law
 d. Hooke's law

71. Ohm's law is expressed as:

- a. $V = IR$
 b. $P = VI$
 c. $Q = It$
 d. $E = mc^2$

72. The lens used in a simple microscope is:

- a. Concave
 b. Convex
 c. Plano-concave
 d. Cylindrical

73. The time required for half of the radioactive nuclei to decay is:

- a. Mean life
 b. Half-life
 c. Decay constant
 d. Lifetime

74. The number of protons in the nucleus is called:

- a. Mass number
 b. Atomic number
 c. Isotope number
 d. Neutron number

75. The output of an AND gate is HIGH when:
- Any input is HIGH
 - All inputs are HIGH
 - all inputs are LOW
 - Inputs are different
76. Stationary waves are formed due to:
- Superposition of two waves moving in the same direction
 - Reflection of a wave from a rigid boundary
 - Refraction of waves
 - Diffraction of waves

PART - VII (MATHEMATICS)

77 - 88

77. Junaid and Sarfaraz have singing class every 4th day and 10th day respectively. They were both together today; they will be together again after:
- 10 days
 - 14 days
 - 20 days
 - 40 days
78. The amount of money initially deposited into an account or the amount of money borrowed from a lender is called:
- Markup
 - Interest
 - Principal
 - Mortgage
79. A shopkeeper marks his goods 20% above the cost price and offers 15% discount. His gain profit is:
- 0%
 - 2%
 - 3%
 - 5%
80. The degree of the term $5x^2yz$ is:
- 2
 - 3
 - 4
 - Undefined
81. The point of intersection of all three internal bisectors of the angles is called:
- Centroid
 - Circum-center
 - In-center
 - Ortho-center
82. There are 60 passengers in the first cabin of the train, 100 in the second and 140 in the third cabin. Number of passengers in the 16th cabin is:
- 640
 - 660
 - 700
 - 740
83. The surface area of a cube-shaped carton of soaps with a length of an edge of 5 units is:
- 25 sq. units
 - 125 sq. units
 - 150 sq. units
 - 30 sq. units
84. I have to work for 500 minutes a day at my workplace. If I reach at 9:15 am today, then I should leave at:
- 5:15 am
 - 5:35 am
 - 5:15 pm
 - 5:35 pm
85. Prices of Milk and Wheat were in the ratio 3:2. If the price of wheat increases by 50%, then the ratio will be:
- 1:1
 - 3:2
 - 2:3
 - 4:9
86. When a die is rolled twice, the number of sample points will be:
- 6
 - 12
 - 36
 - 72
87. If the increase in one quantity causes a decrease in the other quantity, then they are in:
- Direct Proportion
 - Inverse Proportion
 - Compound Proportion
 - Continued Proportion
88. The roots of the equation $[x^2 - 8x + 16 = 0]$ are:
- Real & Equal
 - Real & Distinct
 - Pure Imaginary
 - Complex Conjugate

PART - VIII (COMPUTER)

89 - 100

89. The number system used by digital computers to process quantitative information is _____.
- Decimal
 - Binary
 - Octal
 - Hexadecimal
90. What do we call a computer program that can spread across computers and networks by making copies of itself?
- Worm
 - Virus
 - Adware
 - Spyware
91. In a Database table, a single row will be called:
- Record
 - Field
 - Property
 - Data type



When installing the Windows 10 operating system on a computer, what is the minimum storage space required?

93. A method used by perpetrators to gather personal information using false e-mails and websites is referred to as:
a. Cyberbullying b. Clickjacking c. Scam d. Phishing
94. To represent the type of relationship between entities in an ER diagram, which of the following symbols is used:
a. Diamond b. Rectangle c. Oval d. Line
95. Time-sharing operating systems can also be considered as _____.
a. Real-time b. Multitasking c. Batch processing d. Single tasking
96. Among the following communication mediums, which one requires alignment between sender and receiver for long-range communication:
a. Fiber optic cable b. Microwaves c. Radio waves d. Infrared
97. In MS Word, which of the following options are found in the 'Arrange' group:
a. Indent left and indent right c. Size and column
b. Watermark and page color d. Align and rotate
98. When you go to a tyre shop for wheel alignment, what type of computer does the mechanic use:
a. General-purpose computer c. Supercomputer
b. Special-purpose computer d. Mainframe computer
99. Among the following, which one is the purpose of using frames in HTML:
a. Creates clickable buttons within a web page
b. Apply styles to different sections of a web page
c. Divides a web page into sections, each displaying content of different HTML documents
d. To store form data for server-side processing
100. Which of the following best defines a hotkey in the context of office automation?
a. A physical component of the keyboard used for typing text
b. A software that manages hardware resources in a system
c. A combination of keys is pressed to perform a specific function quickly
d. A programming language used to create desktop applications