

National Testing Agency

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BES 141 Pedagogy of Science

Group Number :	1
Group Id :	86435188
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Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

BES 141 Pedagogy of Science-1

Section Id :	864351484
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20

Section Marks : 20
Mark As Answered Required? : Yes
Sub-Section Number : 1
Sub-Section Id : 864351497
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 8643517732 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one among the following is NOT a myth related to science?

1. Scientific laws and ideas are absolute.
2. A hypothesis is an educated guess.
3. Scientists are particularly objective.
4. Science and Technology are not the same.

Options :

- 86435123681. 1
- 86435123682. 2
- 86435123683. 3
- 86435123684. 4

Question Number : 2 Question Id : 8643517733 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

“Memoirs of Sir Isaac Newton’s Life” is written by:

1. John Ostrom
2. William Stukeley
3. Larsen and Cindy
4. Worth and Grollman

Options :

- 86435123685. 1

86435123686. 2

86435123687. 3

86435123688. 4

Question Number : 3 Question Id : 8643517734 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which among the following is NOT a category of knowledge dimensions in the taxonomy of Anderson and Krathwohl?

1. Factual
2. Metacognitive
3. Comprehension
4. Procedural

Options :

86435123689. 1

86435123690. 2

86435123691. 3

86435123692. 4

Question Number : 4 Question Id : 8643517735 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which among the following is NOT a basic process skill in Science?

1. Hypothesizing
2. Communicating
3. Measuring
4. Predicting

Options :

86435123693. 1

86435123694. 2

86435123695. 3

86435123696. 4

Question Number : 5 Question Id : 8643517736 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which among the following is NOT a characteristic of scientific communication?

1. It is systematic.
2. Scientific languages are different in different areas.
3. It varies keeping in mind the reader.
4. It always follows a fixed pattern of communication.

Options :

86435123697. 1

86435123698. 2

86435123699. 3

86435123700. 4

Question Number : 6 Question Id : 8643517737 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Vymanika Shastra is written by which Indian Rishi?

1. Bhaskaracharya-I
2. Bhaskaracharya-II
3. Bhardwaj
4. Kanad

Options :

86435123701. 1

86435123702. 2

86435123703. 3

86435123704. 4

Question Number : 7 Question Id : 8643517738 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which among the following is the correct sequence of steps of Morrison's Cycle of Planning?

1. Exploration, Presentation, Assimilation, Organization and Recitation
2. Assimilation, Exploration, Presentation, Organization and Recitation
3. Exploration, Assimilation, Recitation, Organization and Presentation
4. Assimilation, Exploration, Organization, Recitation and Presentation

Options :

- 86435123705. 1
- 86435123706. 2
- 86435123707. 3
- 86435123708. 4

Question Number : 8 Question Id : 8643517739 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In which of the following methods, learners gather around a more-knowledgeable learner to get benefit from his/her learning?

1. Think-Pair-Share
2. Three-Minute Interview
3. Circle the Sage
4. Fishbowl

Options :

- 86435123709. 1
- 86435123710. 2
- 86435123711. 3
- 86435123712. 4

Question Number : 9 Question Id : 8643517740 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which among the following is NOT suggested for an inclusive classroom?

1. Modifying instruction
2. Altering instructional materials
3. Similar instructional grouping
4. Modifying class work

Options :

- 86435123713. 1
- 86435123714. 2
- 86435123715. 3
- 86435123716. 4

Question Number : 10 Question Id : 8643517741 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

"The Ecosystem Model of Classroom Resources" was given by:

1. Zhao & Frank
2. Grubb
3. Edger Dale
4. Harry & Edward

Options :

- 86435123717. 1
- 86435123718. 2
- 86435123719. 3
- 86435123720. 4

Question Number : 11 Question Id : 8643517742 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which among the following is a self-report tool of assessment?

1. Observation
2. Inventory
3. Anecdotal Record
4. Rating-scale

Options :

- 86435123721. 1
- 86435123722. 2
- 86435123723. 3
- 86435123724. 4

Question Number : 12 Question Id : 8643517743 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The nutrients essential for protecting our body against diseases are:

1. Fat
2. Vitamins
3. Fibre
4. Carbohydrate

Options :

- 86435123725. 1
- 86435123726. 2
- 86435123727. 3
- 86435123728. 4

Question Number : 13 Question Id : 8643517744 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Groundnut is an example of which type of crop?

1. Rabi
2. Binneal
3. Kharif
4. Ziad

Options :

86435123729. 1
86435123730. 2
86435123731. 3
86435123732. 4

Question Number : 14 Question Id : 8643517745 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The pH value more than 7 of a liquid indicates that it is a/an:

1. Organic compound
2. Inorganic Compound
3. Acid
4. Base

Options :

86435123733. 1
86435123734. 2
86435123735. 3
86435123736. 4

Question Number : 15 Question Id : 8643517746 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is a metal with the highest reactivity?

1. Au
2. Al
3. Na
4. Pb

Options :

86435123737. 1
86435123738. 2
86435123739. 3
86435123740. 4

Question Number : 16 Question Id : 8643517747 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which among the following is unicellular?

1. Monera
2. Fungi
3. Plantae
4. Animalia

Options :

86435123741. 1
86435123742. 2
86435123743. 3
86435123744. 4

Question Number : 17 Question Id : 8643517748 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The difference in potential, developed at two ends of the circuit is known as:

1. Current
2. Voltage
3. Resistance
4. Power

Options :

- 86435123745. 1
- 86435123746. 2
- 86435123747. 3
- 86435123748. 4

Question Number : 18 Question Id : 8643517749 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Law of inertia is also known as:

1. Newton's first law of motion
2. Newton's second law of motion
3. Newton's third law of motion
4. Newton's momentum

Options :

- 86435123749. 1
- 86435123750. 2
- 86435123751. 3
- 86435123752. 4

Question Number : 19 Question Id : 8643517750 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which law explains that the ratio of sine of angle of incidence to the sine of angle of refraction for two mediums is always constant?

1. Snell's Law
2. Ohm's Law
3. Boyle's Law
4. Charles's Law

Options :

- 86435123753. 1
- 86435123754. 2
- 86435123755. 3
- 86435123756. 4

Question Number : 20 Question Id : 8643517751 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which among the following is considered as a clean fuel?

1. LPG
2. Petrol
3. CNG
4. Coal

Options :

- 86435123757. 1
- 86435123758. 2
- 86435123759. 3
- 86435123760. 4

Section Id :	864351485
Section Number :	2
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	30
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	864351498
Question Shuffling Allowed :	No

Question Number : 21 Question Id : 8643517752 Question Type : SUBJECTIVE

Correct Marks : 3

How will you dispel the myth that "Science and Technology are identical."

Question Number : 22 Question Id : 8643517753 Question Type : SUBJECTIVE

Correct Marks : 3

Discuss any three objectives of Science teaching at higher secondary level.

Question Number : 23 Question Id : 8643517754 Question Type : SUBJECTIVE

Correct Marks : 3

What are the skills to be acquired to understand the method and processes of Science?

Highlight any three.

Question Number : 24 Question Id : 8643517755 Question Type : SUBJECTIVE

Correct Marks : 3

Develop three learning objectives of different cognitive processes related to the topic "Life Processes". Also mention the specific cognitive process against each objective.

Question Number : 25 Question Id : 8643517756 Question Type : SUBJECTIVE

Correct Marks : 3

Discuss advantages of the problem-solving approach in science teaching.

Question Number : 26 Question Id : 8643517757 Question Type : SUBJECTIVE

Correct Marks : 3

Briefly discuss the importance of diagnostic assessment in Science.

Question Number : 27 Question Id : 8643517758 Question Type : SUBJECTIVE

Correct Marks : 3

Define the concept of 'Mole' with example.

Question Number : 28 Question Id : 8643517759 Question Type : SUBJECTIVE

Correct Marks : 3

How disaster management has been defined under the Disaster Management Act, 2005?

Question Number : 29 Question Id : 8643517760 Question Type : SUBJECTIVE

Correct Marks : 3

Explain Fleming's Left Hand Rule with example.

Question Number : 30 Question Id : 8643517761 Question Type : SUBJECTIVE

Correct Marks : 3

Explain types of animals on the basis of their Body Cavity or Coelom.

BES 141 Pedagogy of Science-3

Section Id :	864351486
Section Number :	3
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	7
Number of Questions to be attempted :	5
Section Marks :	50
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	864351499
Question Shuffling Allowed :	No

Question Number : 31 Question Id : 8643517762 Question Type : SUBJECTIVE

Correct Marks : 10

How will you present "Science as a body of knowledge" to your learners? Give suitable examples.

Question Number : 32 Question Id : 8643517763 Question Type : SUBJECTIVE

Correct Marks : 10

Explain various criteria of validity of a science curriculum proposed by Position Paper of National Focus Group on Teaching of Science.

Question Number : 33 Question Id : 8643517764 Question Type : SUBJECTIVE

Correct Marks : 10

How will you use investigatory projects in science teaching-learning? Explain with the help of one example.

Question Number : 34 Question Id : 8643517765 Question Type : SUBJECTIVE

Correct Marks : 10

Explain the correlation in different branches of Science with suitable examples.

Question Number : 35 Question Id : 8643517766 Question Type : SUBJECTIVE

Correct Marks : 10

How will you use portfolio as a tool of assessment in Science? Give example.

Question Number : 36 Question Id : 8643517767 Question Type : SUBJECTIVE

Correct Marks : 10

Differentiate between aerobic and anaerobic respiration with suitable examples.

Question Number : 37 Question Id : 8643517768 Question Type : SUBJECTIVE

Correct Marks : 10

Derive the expression for conservation of momentum.