

Computer Based Examination System

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Title *	Question Paper Answer Key
OES Exam *	GPSC01202405 / Scientific Assistant(DNA) / Completed / 2024-07-14

1	<b>Question Description</b>	<b>What type of gel is commonly used in electrophoresis for DNA fingerprinting?</b>
	<b>A</b>	Agarose gel
	<b>B</b>	Polyacrylamide gel
	<b>C</b>	Starch gel
	<b>D</b>	Cellulose gel
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

2

<b>Question Description</b>	<b>Which enzyme is used to cut DNA into fragments in DNA fingerprinting?</b>
<b>A</b>	DNA polymerase
<b>B</b>	RNA polymerase
<b>C</b>	Restriction enzyme
<b>D</b>	Ligase
<b>E</b>	None of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1

3

<b>Question Description</b>	<b>Which technique is most commonly used in DNA fingerprinting?</b>
<b>A</b>	Southern Blotting
<b>B</b>	Northern Blotting
<b>C</b>	Western Blotting
<b>D</b>	Eastern Blotting
<b>E</b>	None of the above
<b>Correct Answer</b>	A
<b>Marks</b>	1

4	<b>Question Description</b>	<b>Who is credited with developing DNA fingerprinting?</b>
	<b>A</b>	James Watson
	<b>B</b>	Francis Crick
	<b>C</b>	Alec Jeffreys
	<b>D</b>	Kary Mullis
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1
5	<b>Question Description</b>	<b>Which of the following factors does NOT typically affect the migration rate of molecules during electrophoresis?</b>
	<b>A</b>	Voltage applied
	<b>B</b>	pH of the buffer
	<b>C</b>	Temperature of the environment
	<b>D</b>	Age of the sample
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

6	<b>Question Description</b>	<b>What is capillary electrophoresis used for in DNA fingerprinting?</b>
	<b>A</b>	To separate DNA fragments by size
	<b>B</b>	To sequence DNA
	<b>C</b>	To amplify DNA
	<b>D</b>	To cut DNA into fragments
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

7	<b>Question Description</b>	<b>What does PCR stand for in the context of DNA fingerprinting?</b>
	<b>A</b>	Protein Chain Reaction
	<b>B</b>	Polymerase Chain Reaction
	<b>C</b>	Peptide Chain Reaction
	<b>D</b>	Phosphodiester Chain Reaction
	<b>E</b>	one of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

8

<b>Question Description</b>	<b>DNA fingerprinting can be useful in wildlife conservation for?</b>
<b>A</b>	identification of endangered species
<b>B</b>	monitoring genetic diversity
<b>C</b>	tracking poaching activities
<b>D</b>	All of the above
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1

9

<b>Question Description</b>	<b>Which principle of forensic science is concerned with the likelihood of an event occurring and is used to assess the significance of evidence in criminal investigations?</b>
<b>A</b>	Principle of Exchange
<b>B</b>	Law of Individuality
<b>C</b>	Principle of Comparability
<b>D</b>	Law of Probability
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1

10	<b>Question Description</b>	<b>What is the role of gel electrophoresis in DNA fingerprinting?</b>
	<b>A</b>	To cut DNA into fragments
	<b>B</b>	To separate DNA fragments based on size
	<b>C</b>	amplify DNA
	<b>D</b>	To visualize DNA fragments
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

11	<b>Question Description</b>	<b>What is the purpose of a DNA ladder in gel electrophoresis?</b>
	<b>A</b>	To mark the starting point of DNA migration
	<b>B</b>	To compare and estimate the size of DNA fragments
	<b>C</b>	To visualize DNA fragments
	<b>D</b>	To amplify DNA fragments
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

12	<b>Question Description</b>	<b>Which of the following is a limitation of DNA fingerprinting?</b>
	<b>A</b>	It requires a large sample of DNA
	<b>B</b>	It cannot differentiate between identical twins
	<b>C</b>	It is not accepted in courts of law
	<b>D</b>	It is an outdated technology
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

13	<b>Question Description</b>	<b>What is VNTR?</b>
	<b>A</b>	Variable Number Tandem Repeat
	<b>B</b>	Variable Nucleotide Tandem Repeat
	<b>C</b>	Variant Number Tandem Repeat
	<b>D</b>	Variant Nucleotide Tandem Repeat
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

14	<b>Question Description</b>	<b>What technique is often used to analyse mixed DNA profiles from multiple contributors in forensic investigations?</b>
	<b>A</b>	STR analysis
	<b>B</b>	Capillary electrophoresis
	<b>C</b>	PCR amplification
	<b>D</b>	Likelihood ratio calculation
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

15	<b>Question Description</b>	<b>Y-STRs are particularly useful in forensic DNA analysis for:</b>
	<b>A</b>	Identifying paternal lineage and male-specific profiles
	<b>B</b>	Identifying maternal lineage and female-specific profiles
	<b>C</b>	Determining the ethnic origin of an individual
	<b>D</b>	Assessing the overall genetic diversity within a population
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1



16	<b>Question Description</b>	<b>What is the function of Taq polymerase in PCR?</b>
	<b>A</b>	To cut DNA into fragments
	<b>B</b>	To bind DNA fragments
	<b>C</b>	To amplify DNA
	<b>D</b>	To visualize DNA
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

17	<b>Question Description</b>	<b>What are microsatellites in the context of DNA profiling?</b>
	<b>A</b>	Short sequences of DNA with repetitive elements
	<b>B</b>	Long sequences of DNA with non-repetitive elements
	<b>C</b>	Non-coding regions of DNA
	<b>D</b>	Protein-coding regions of DNA
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

18	<b>Question Description</b>	<b>What type of bond is broken by restriction enzymes?</b>
	<b>A</b>	Hydrogen bonds
	<b>B</b>	Peptide bonds
	<b>C</b>	Phosphodiester bonds
	<b>D</b>	Disulfide bonds
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

19	<b>Question Description</b>	<b>What is one of the primary challenges of DNA analysis in mass disaster situations?</b>
	<b>A</b>	Lack of DNA variation among victims
	<b>B</b>	Contamination and degradation of DNA samples
	<b>C</b>	Overabundance of unspoiled DNA samples
	<b>D</b>	Difficulty in distinguishing between human and animal DNA
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

20	<b>Question Description</b>	<b>How are DNA fragments visualized after gel electrophoresis?</b>
	<b>A</b>	By staining with ethidium bromide
	<b>B</b>	By heating the gel
	<b>C</b>	By freezing the gel
	<b>D</b>	By using a microscope
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

21	<b>Question Description</b>	<b>Which of the following statements about STR markers used in forensic DNA analysis is true?</b>
	<b>A</b>	They are primarily used to identify single nucleotide polymorphisms
	<b>B</b>	They do not vary significantly among individuals
	<b>C</b>	They are located in non-coding regions of the genome
	<b>D</b>	They consist of short repetitive sequences of DNA
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

22	<b>Question Description</b>	<b>Which body fluid can be identified at a crime scene using the presumptive test known as the Kastle-Meyer test?</b>
	<b>A</b>	Saliva
	<b>B</b>	Semen
	<b>C</b>	Blood
	<b>D</b>	Urine
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

23	<b>Question Description</b>	<b>What is the first step in the DNA fingerprinting process?</b>
	<b>A</b>	DNA amplification
	<b>B</b>	DNA extraction
	<b>C</b>	Gel electrophoresis
	<b>D</b>	Hybridization
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

24	<b>Question Description</b>	<b>What is the molarity of a solution prepared by dissolving 2 moles of solute in 1 litre of solution?</b>
	<b>A</b>	0.5 M
	<b>B</b>	1 M
	<b>C</b>	2 M
	<b>D</b>	4 M
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

25	<b>Question Description</b>	<b>What is the purpose of using a probe in DNA fingerprinting?</b>
	<b>A</b>	To visualize DNA fragments
	<b>B</b>	To amplify DNA fragments
	<b>C</b>	To separate DNA fragments
	<b>D</b>	To identify specific DNA sequences
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

26

<b>Question Description</b>	<b>Which electrophoresis technique separates proteins based on their molecular weight by using a detergent that denatures them?</b>
<b>A</b>	Immuno-electrophoresis
<b>B</b>	Native polyacrylamide gel electrophoresis
<b>C</b>	Sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE)
<b>D</b>	Isoelectric focusing (IEF)
<b>E</b>	None of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1

27	<b>Question Description</b>	<b>Which part of the DNA is used for fingerprinting?</b>
	<b>A</b>	Coding regions
	<b>B</b>	Non-coding regions
	<b>C</b>	Introns
	<b>D</b>	Exons
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

28	<b>Question Description</b>	<b>What does RFLP stand for?</b>
	<b>A</b>	Random Fragment Length Polymorphism
	<b>B</b>	Restriction Fragment Length Polymorphism
	<b>C</b>	Random Fragment Length Pairing
	<b>D</b>	Restriction Fragment Length Pairing
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

29	<b>Question Description</b>	<b>Who is often credited with founding the field of forensic toxicology by developing tests for detecting poisons and drugs in human tissue?</b>
	<b>A</b>	Alphonse Bertillon
	<b>B</b>	Edmond Locard
	<b>C</b>	Mathieu Orfila
	<b>D</b>	Francis Galton
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

30	<b>Question Description</b>	<b>Which of the following samples can be used for DNA fingerprinting?</b>
	<b>A</b>	Blood
	<b>B</b>	Hair
	<b>C</b>	Saliva
	<b>D</b>	All of the above
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1



31

**Comprehension**

Read the passage below and answer the questions:

It is believed by many that the pharma industry in our country preys on pestilence for profits. As the primary sector thrives under the benevolent monsoons, the food grain production may hike by hundreds of million tonnes. The generous use of pesticide is said to be a key factor in this race for a quantum jump in agricultural productivity in the country. On the basis of target species pesticides can be divided into four broad categories, namely, insecticides, herbicides, fungicides and rodenticides. Presently, insecticides contribute to nearly 75 per cent of the turnover of the pesticide industry. But in the West the trend is different: fungicides and herbicides account for the largest share of consumption in those countries.

**Question Description**

In the above passage “pestilence” is used to imply

**A**

rise in bubonic plague

**B**

increase in irritation

**C**

proliferation of pests

**D**

growth of disease

**E**

None of the above

**Correct Answer**

C

**Marks**

1

**Comprehension**

Read the passage below and answer the questions:

It is believed by many that the pharma industry in our country preys on pestilence for profits. As the primary sector thrives under the benevolent monsoons, the food grain production may hike by hundreds of million tonnes. The generous use of pesticide is said to be a key factor in this race for a quantum jump in agricultural productivity in the country. On the basis of target species pesticides can be divided into four broad categories, namely, insecticides, herbicides, fungicides and rodenticides. Presently, insecticides contribute to nearly 75 per cent of the turnover of the pesticide industry. But in the West the trend is different: fungicides and herbicides account for the largest share of consumption in those countries.

**Question Description**

The term used in the above passage to refer to the pesticide variant that targets “gnawing mammals” is -----

**A**

herbicide

**B**

insecticide

**C**

fungicide

**D**

rodenticide

**E**

None of the above

**Correct Answer**

D

**Marks**

1

33

**Comprehension**

Read the passage below and answer the questions:

It is believed by many that the pharma industry in our country preys on pestilence for profits. As the primary sector thrives under the benevolent monsoons, the food grain production may hike by hundreds of million tonnes. The generous use of pesticide is said to be a key factor in this race for a quantum jump in agricultural productivity in the country. On the basis of target species pesticides can be divided into four broad categories, namely, insecticides, herbicides, fungicides and rodenticides. Presently, insecticides contribute to nearly 75 per cent of the turnover of the pesticide industry. But in the West the trend is different: fungicides and herbicides account for the largest share of consumption in those countries.

**Question Description**

From the options provided below, identify the one that comes closest to the overall sense of the passage

**A**

In India the trend is to prefer insecticides; in the West it is for herbicides and fungicides

**B**

In India the agricultural consumption of pesticides is controlled; in the West it is not so.

**C**

In India the turnover of pesticides is very high; in the West the situation is identical.

**D**

In India the turnover of insecticides is high; in the West the trend is different.

**E**

None of the above

**Correct Answer**

A

**Marks**

1

34

**Comprehension**

Read the passage below and answer the questions:

It is believed by many that the pharma industry in our country preys on pestilence for profits. As the primary sector thrives under the benevolent monsoons, the food grain production may hike by hundreds of million tonnes. The generous use of pesticide is said to be a key factor in this race for a quantum jump in agricultural productivity in the country. On the basis of target species pesticides can be divided into four broad categories, namely, insecticides, herbicides, fungicides and rodenticides. Presently, insecticides contribute to nearly 75 per cent of the turnover of the pesticide industry. But in the West the trend is different: fungicides and herbicides account for the largest share of consumption in those countries.

**Question Description**

“The generous use of pesticide is said to be a key factor in this race for a quantum jump in agricultural productivity in the country.”

In the above sentence, “this race” implies

**A**

the generous use of pesticides

**B**

a quantum jump in productivity

**C**

enhancement of agricultural productivity

**D**

key factor in agricultural productivity

**E**

None of the above

**Correct Answer**

C

**Marks**

1

35

<b>Comprehension</b>	Read the passage below and answer the questions: It is believed by many that the pharma industry in our country preys on pestilence for profits. As the primary sector thrives under the benevolent monsoons, the food grain production may hike by hundreds of million tonnes. The generous use of pesticide is said to be a key factor in this race for a quantum jump in agricultural productivity in the country. On the basis of target species pesticides can be divided into four broad categories, namely, insecticides, herbicides, fungicides and rodenticides. Presently, insecticides contribute to nearly 75 per cent of the turnover of the pesticide industry. But in the West the trend is different: fungicides and herbicides account for the largest share of consumption in those countries.
<b>Question Description</b>	From the options given below identify the antonym of the word “generous” in the sense it is used in the passage
<b>A</b>	frugal
<b>B</b>	unkind
<b>C</b>	excessive
<b>D</b>	malevolent
<b>E</b>	None of the above
<b>Correct Answer</b>	A
<b>Marks</b>	1

<b>Comprehension</b>	<p>Read the following passage and answer the questions</p> <p>The World Health Organization is popularly known as W.H.O. in brief. It is a specialized agency of the United Nations and was established in 1948. International health workers can be seen to be working in all kinds of surroundings: in deserts, jungles, mountains, coconut groves, and rice fields. They help the sick to attain their health and the healthy to maintain their health. This global health team helps the local health workers in stopping the spread of what are called the communicable diseases, like cholera. These diseases can be spread from one country to another and so can be a threat to world health. W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them. Total prevention is possible in a number of ways altogether in a number of ways such as vaccination, spraying of houses with poisonous substances which kill disease-carrying insects.</p>
<b>Question Description</b>	Find a word or a phrase from the passage that means ‘contagious or infectious’
<b>A</b>	communicable
<b>B</b>	cholera
<b>C</b>	disease
<b>D</b>	disease carrying insects
<b>E</b>	None of the above
<b>Correct Answer</b>	A
<b>Marks</b>	1

37

**Comprehension**

Read the following passage and answer the questions

The World Health Organization is popularly known as W.H.O. in brief. It is a specialized agency of the United Nations and was established in 1948. International health workers can be seen to be working in all kinds of surroundings: in deserts, jungles, mountains, coconut groves, and rice fields. They help the sick to attain their health and the healthy to maintain their health. This global health team helps the local health workers in stopping the spread of what are called the communicable diseases, like cholera. These diseases can be spread from one country to another and so can be a threat to world health. W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them. Total prevention is possible in a number of ways altogether in a number of ways such as vaccination, spraying of houses with poisonous substances which kill disease-carrying insects.

**Question Description**

The phrase “international health workers” in the passage is used to imply that they

**A**

promote co-operation among all the nations

**B**

drawn from all the countries

**C**

belong to the whole world

**D**

work for the organization of many nations

**E**

None of the above

**Correct Answer**

B

**Marks**

1





**Comprehension**

Read the following passage and answer the questions

The World Health Organization is popularly known as W.H.O. in brief. It is a specialized agency of the United Nations and was established in 1948. International health workers can be seen to be working in all kinds of surroundings: in deserts, jungles, mountains, coconut groves, and rice fields. They help the sick to attain their health and the healthy to maintain their health. This global health team helps the local health workers in stopping the spread of what are called the communicable diseases, like cholera. These diseases can be spread from one country to another and so can be a threat to world health. W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them. Total prevention is possible in a number of ways altogether in a number of ways such as vaccination, spraying of houses with poisonous substances which kill disease-carrying insects.

**Question Description**

“It is a specialized agency of the United Nations and was established in 1948.”  
Here the word “specialized” means

**A**

extraordinary

**B**

expert

**C**

made suitable for a purpose

**D**

uncommon

**E**

None of the above

**Correct Answer**

C

**Marks**

1

39

**Comprehension**

Read the following passage and answer the questions

The World Health Organization is popularly known as W.H.O. in brief. It is a specialized agency of the United Nations and was established in 1948. International health workers can be seen to be working in all kinds of surroundings: in deserts, jungles, mountains, coconut groves, and rice fields. They help the sick to attain their health and the healthy to maintain their health. This global health team helps the local health workers in stopping the spread of what are called the communicable diseases, like cholera. These diseases can be spread from one country to another and so can be a threat to world health. W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them. Total prevention is possible in a number of ways altogether in a number of ways such as vaccination, spraying of houses with poisonous substances which kill disease-carrying insects.

**Question Description**

“W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them.”  
The above sentence implies that

**A**

W.H.O. assists more in controlling diseases than in preventing them

**B**

W.H.O. assists both in controlling diseases and in preventing them

**C**

W.H.O. assists in controlling diseases that have not been prevented

**D**

W.H.O. assists many others besides national health authorities

**E**

None of the above

**Correct Answer**

B

**Marks**

1

40

**Comprehension**

Read the following passage and answer the questions

The World Health Organization is popularly known as W.H.O. in brief. It is a specialized agency of the United Nations and was established in 1948. International health workers can be seen to be working in all kinds of surroundings: in deserts, jungles, mountains, coconut groves, and rice fields. They help the sick to attain their health and the healthy to maintain their health. This global health team helps the local health workers in stopping the spread of what are called the communicable diseases, like cholera. These diseases can be spread from one country to another and so can be a threat to world health. W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them. Total prevention is possible in a number of ways altogether in a number of ways such as vaccination, spraying of houses with poisonous substances which kill disease-carrying insects.

**Question Description**

“They help the sick to attain health and the healthy to maintain their health”.  
Here, “they” refers to

**A**

surroundings of health workers

**B**

members of the W.H.O.

**C**

deserts, jungles and rice fields

**D**

international health workers

**E**

None of the above

**Correct Answer**

D

**Marks**

1

41	<b>Question Description</b>	Which company introduced the world's first CNG motorcycle named Freedom?
	<b>A</b>	Honda
	<b>B</b>	TVS
	<b>C</b>	Bajaj
	<b>D</b>	Yamaha
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1
42	<b>Question Description</b>	With which country is India conducting the military exercise 'Nomadic Elephant'?
	<b>A</b>	Mongolia
	<b>B</b>	Bhutan
	<b>C</b>	Nepal
	<b>D</b>	Myanmar
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

43	<b>Question Description</b>	When is National Statistics Day celebrated annually in India?
	<b>A</b>	June 28
	<b>B</b>	June 30
	<b>C</b>	June 29
	<b>D</b>	July 1
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

44	<b>Question Description</b>	On which date is GST Day observed annually in India?
	<b>A</b>	June 30
	<b>B</b>	July 1
	<b>C</b>	August 15
	<b>D</b>	September 1
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

45	<b>Question Description</b>	Who won the FIDE Under-20 Girl's World Chess Championship in 2024?
	<b>A</b>	Koneru Humpy
	<b>B</b>	Harika Dronavalli
	<b>C</b>	Soumya Swaminathan
	<b>D</b>	Divya Deshmukh
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

46	<b>Question Description</b>	In India, up to what age are working children classified as child labour?
	<b>A</b>	Up to 16 years
	<b>B</b>	Up to 12 years
	<b>C</b>	Up to 14 years
	<b>D</b>	Up to 15 years
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

47	<b>Question Description</b>	In which country was the "Tagore On The Padma Boat" programme organized?
	<b>A</b>	India
	<b>B</b>	Pakistan
	<b>C</b>	Sri Lanka
	<b>D</b>	Bangladesh
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

48	<b>Question Description</b>	FC Goa extend goalkeeper _____ contract through 2025-26 season.
	<b>A</b>	Arshdeep Singh
	<b>B</b>	Navdeep singh
	<b>C</b>	Naveen kaur
	<b>D</b>	Arayaman singh
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

49	<b>Question Description</b>	At just 21 Years old _____ from Goa, has set a world record in natural body building
	<b>A</b>	Rajesh Phadte
	<b>B</b>	Aravind Gawas
	<b>C</b>	Sangam Popkar
	<b>D</b>	Amit Rane
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

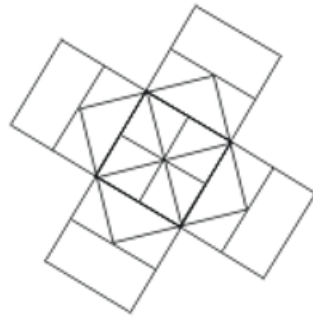
50	<b>Question Description</b>	Who will lead the 28-member Indian athletics team at the Paris 2024 Olympics?
	<b>A</b>	P. V. Sindhu
	<b>B</b>	Amit Panghal
	<b>C</b>	Priyanka Goswami
	<b>D</b>	Neeraj Chopra
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1



51

Question Description

Count the number of squares in the given figure.



A 22

B 20

C 18

D 14

E None of the above

Correct Answer C

Marks 1

52

<b>Question Description</b>	A man invests some money partly in 9% stock at 96 and partly in 12% stock at 120. To obtain equal dividends from both, he must invest the money in the ratio:
<b>A</b>	3 : 4
<b>B</b>	3 : 5
<b>C</b>	4 : 5
<b>D</b>	16 : 15
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1

53	<b>Question Description</b>	A boat covers a certain distance downstream in 1 hour, while it comes back in $1\frac{1}{2}$ hours. If the speed of the stream be 3 kmph, what is the speed of the boat in still water?
	<b>A</b>	12 kmph
	<b>B</b>	13 kmph
	<b>C</b>	14 kmph
	<b>D</b>	15 kmph
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

54	<b>Question Description</b>	A man rows to a place 48 km distant and come back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The rate of the stream is:
	<b>A</b>	1 km/hr
	<b>B</b>	1.5 km/hr
	<b>C</b>	2 km/hr
	<b>D</b>	2.5 km/hr
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

55

<b>Question Description</b>	A trader owes a merchant Rs. 10,028 due 1 year hence. The trader wants to settle the account after 3 months. If the rate of interest 12% per annum, how much cash should he pay?
<b>A</b>	Rs. 9025.20
<b>B</b>	Rs. 9200
<b>C</b>	Rs. 9600
<b>D</b>	Rs. 9560
<b>E</b>	None of the above
<b>Correct Answer</b>	B
<b>Marks</b>	1

56

**Question Description**

A milk vendor has 2 cans of milk. The first contains 25% water and the rest milk. The second contains 50% water. How much milk should he mix from each of the containers so as to get 12 litres of milk such that the ratio of water to milk is 3 : 5?

**A**

4 litres, 8 litres

**B**

6 litres, 6 litres

**C**

5 litres, 7 litres

**D**

7 litres, 5 litres

**E**

None of the above

**Correct Answer**

B

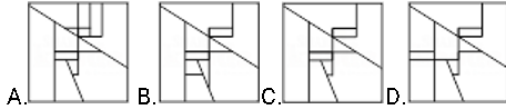
**Marks**

1

57

Question Description

From the given options, select a figure in which the Question Figure is hidden/embedded.



A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

C

Marks

1

58

<b>Question Description</b>	<b>Find the wrong number in given sequence</b> 46080, 3840, 384, 48, 24, 2, 1
<b>A</b>	1
<b>B</b>	2
<b>C</b>	24
<b>D</b>	384
<b>E</b>	None of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1

59

**Question Description**

Complete the series

1336 1738 2212 2764 3400 ?

**A**

3638

**B**

3832

**C**

4126

**D**

4244

**E**

None of the above

**Correct Answer**

C

**Marks**

1



60	<b>Question Description</b>	What least number must be added to 1056, so that the sum is completely divisible by 23 ?
	<b>A</b>	2
	<b>B</b>	3
	<b>C</b>	18
	<b>D</b>	21
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

61	<b>Question Description</b>	From a point P on a level ground, the angle of elevation of the top tower is $30^\circ$ . If the tower is 100 m high, the distance of point P from the foot of the tower is:
	<b>A</b>	149 m
	<b>B</b>	156 m
	<b>C</b>	173 m
	<b>D</b>	200 m
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

62

**Question Description**On 8<sup>th</sup> Feb, 2005 it was Tuesday. What was the day of the week on 8<sup>th</sup> Feb, 2004?**A**

Tuesday

**B**

Monday

**C**

Sunday

**D**

Wednesday

**E**

None of the above

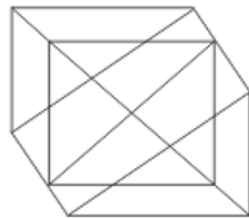
**Correct Answer**

C

**Marks**

1

63

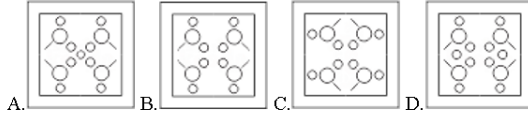
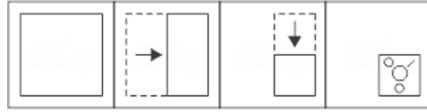
**Question Description****Find the number of triangles in the given figure.****A**

22

<b>B</b>	24
<b>C</b>	26
<b>D</b>	28
<b>E</b>	None of the above
<b>Correct Answer</b>	B
<b>Marks</b>	1

## Question Description

Directions: A piece of a paper is folded and cut as shown below in the Question Figures. Indicate how it will appear when opened.



A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

B

Marks

1

65

**Question Description**

The following question is followed by three statements. You have to study the question and all the three statements given to decide whether any information provided in the statement(s) is redundant and can be dispensed with while answering the given question.

At what time will the train reach city X from city Y?

I. The train crosses another train of equal length of 200 metres and running in opposite directions in 15 seconds.

II. The train leaves city Y at 7.15 a.m. for city X situated at a distance of 558 km.

III. The 200 metres long train crosses a signal pole in 10 seconds.

**A**

I only

**B**

II only

**C**

III only

**D**

II and III only

**E**

None of the above

**Correct Answer**

D

**Marks**

1

66

**Question Description**

**Directions: Study the following information carefully and answer the questions given beside:**

In a certain code language,

'There is Park' is written as 'nup yex ace'

'People in Schools' is written as 'ybx cvu vcl'

'Several Schools Are Present There' is written as 'cal del vuc ybx yex'

'Park is Dark' is written as 'nup cig ace'

'Dark People in Several Park' is written as 'vcl cal nup cig cvu'

**What could be the code 'cig ybx gkl vcl' stand for in the given code language?**

**A** Dark In People There Park

**B** Near People Dark Schools

**C** Schools Present There Park

**D** People Set Park Schools

**E** None of the above

**Correct Answer** B

**Marks** 1

67

<b>Question Description</b>	A fort had provision of food for 150 men for 45 days. After 10 days, 25 men left the fort. The number of days for which the remaining food will last, is:
<b>A</b>	29
<b>B</b>	37
<b>C</b>	42
<b>D</b>	54
<b>E</b>	None of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1

68

<b>Question Description</b>	A 12% stock yielding 10% is quoted at:
<b>A</b>	Rs. 83.33
<b>B</b>	Rs. 110
<b>C</b>	Rs. 112
<b>D</b>	Rs. 120
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1



69

**Question Description**

Directions: In each question three statements followed by two conclusions numbered I and II have been given. You have to take the given statement to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given

Statements :

0% frocks are pants.

All shorts are frocks.

A few jackets are pants.

Conclusions :

I. Not a single pant is short.

II. A good number of jackets are not frocks.

**A**

If only conclusion I follows.

**B**

If only conclusion II follows.

**C**

If neither conclusion I nor II follows.

**D**

If both conclusion I and II follows.

**E**

None of the above

**Correct Answer**

D

**Marks**

1

70

**Question Description**

**Direction:** In each of the following question, there is a certain relationship between two given pair on both side of '::' . One word is given on another side of '::' while another word is to be found from the given options, having the same relation with this word as the words of the given pair . Choose the correct word from the following options.

**Monotony : Variety : : Crudeness : ?**

**A**

Refinement

**B**

Raw

**C**

Sobriety

**D**

Simplicity

**E**

None of the above

**Correct Answer**

A

**Marks**

1

71

**Question Description**

Look at this series: 664, 332, 340, 170, \_\_\_\_, 89, ... What number should fill the blank?

**A**

85

**B**

97

**C**

109

**D**

178

**E**

None of the above

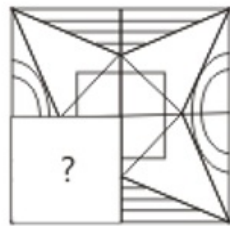
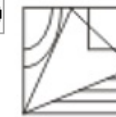
**Correct Answer**

D

**Marks**

1

72

**Question Description****Which Answer Figure will complete the pattern in the figure?****A****B****C****D**

<b>A</b>	A
<b>B</b>	B
<b>C</b>	C
<b>D</b>	D
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1

73

**Question Description**

**Can a water tank of 2500 litres capacity be filled by two inlet pipes A and B together in less than 8 hours?**

**Statement I :** If pipe A is opened alone then it takes 12 hours to fill the tank.

**Statement II :** Pipe B can fill 1 litres of water per minute.

**A**

The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

**B**

The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

**C**

Either Statement I or Statement II alone is sufficient to answer the question.

**D**

The data in both the statements I and II together is necessary to answer the question.

**E**

None of the above

**Correct Answer**

D

**Marks**

1

74

Question Description

**Directions: Select the missing number from the given alternatives:**

15	5	7	10
64	4	5	?
91	?	9	22

A 21, 7

B 12, 4

C 24, 8

D 35, 5

E None of the above

**Correct Answer** A**Marks** 1

75

<b>Question Description</b>	A and B can together finish a work 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the work?
<b>A</b>	40
<b>B</b>	50
<b>C</b>	54
<b>D</b>	60
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1