

Exported On *	2025/09/29 10:48:19
Title *	Question Paper Answer Key
OES Exam *	GPSC05202504 Scientific Assistant cum Photographer in Forensic Science Laboratory Completed 2025-09-28

1	Question Description	The Purpose of maintaining chain of custody is:
	A	To increase the amount of evidence collected.
	B	To preserve authenticity and admissibility of evidence in court.
	C	To preserve authenticity and admissibility of evidence in court.
	D	To provide training to new investigators.
	E	None of the above
	Correct Answer	C
	Marks	1

2	Question Description	Solarization during printing results in:
	A	Partial tone reversal giving surreal effect
	B	Complete negative reversal
	C	Increase in megapixels
	D	Correction of distortion
	E	None of the above
	Correct Answer	A
	Marks	1
3	Question Description	A fresh bloodstain on dark clothing is almost invisible. Which combination best documents it?
	A	Infrared photography with barrier filter
	B	Daylight photography with wide aperture
	C	Flash with polarizer
	D	Microphotography with white light
	E	None of the above
	Correct Answer	A
	Marks	1

4	Question Description	In colour photography, the concept of colour temperature is measured in:
	A	Lumens
	B	Lux
	C	Kelvin
	D	Hertz
	E	None of the above
	Correct Answer	C
5	Marks	1
	Question Description	In which scenario is the use of a fisheye lens most appropriate during forensic documentation?
	A	Photographing a fingerprint on glass
	B	Capturing the interior of a small bathroom crime scene
	C	Recording bullet striation
	D	Photographing ink on questioned.
	E	None of the above
	Correct Answer	B
	Marks	1

6	Question Description	“Bruises” photographed under tungsten light appear greenish compared to reality.
	A	This error is due to:
	B	Diffraction
	C	Wrong white balance
	D	Barrel distortion
	E	None of the above
	Correct Answer	B
	Marks	1
7	Question Description	Which shutter type is typically found just behind the lens mount and provides high synchronization accuracy for flash photography?
	A	Magnetic leaf shutter
	B	Focal plane shutter
	C	In-between the lens shutter
	D	Rotary shutter
	E	None of the above
	Correct Answer	C
	Marks	1

8	Question Description	A crime scene is photographed in early morning fog. Which natural light condition will most affect the images?
	A	High contrast
	B	Low intensity and diffused light
	C	Overexposure
	D	Strong shadows
	E	None of the above
	Correct Answer	B
	Marks	1
9	Question Description	“ Burning ” in forensic photographing printing is used when:
	A	Background appears too dark
	B	Background is too light and needs to be darkened
	C	Color temperature is mismatched
	D	Enlarger lamp is misaligned
	E	None of the above
	Correct Answer	B
	Marks	1

10	Question Description	What is the key advantage of a telephoto lens compared to a standard lens?
	A	Wider field of view
	B	Reduced camera shake
	C	Ability to focus on distant subjects with a compact physical size
	D	Increased depth of field
	E	None of the above
	Correct Answer	C
	Marks	1
11	Question Description	“Dodging” and “Burning” in forensic darkroom printing are techniques to:
	A	Enhance image sharpness
	B	Selectively lighten or darken areas
	C	Correct chromatic aberration
	D	Prevent overexposure
	E	None of the above
	Correct Answer	B
	Marks	1

12	Question Description	Which artificial light is most commonly used in forensic photography due to its balanced spectrum?
	A	Tungsten lamp
	B	Fluorescent light
	C	LED light source
	D	Sodium vapor lamp
	E	None of the above
	Correct Answer	C
	Marks	1
13	Question Description	Which type of lens minimizes chromatic aberration using two types of glass in its construction?
	A	Meniscus lens
	B	Achromatic lens
	C	Symmetrical lens
	D	Macro lens
	E	None of the above
	Correct Answer	B
	Marks	1

14	Question Description	Digital zoom reduces image quality because:
	A	Sensor pixels are physically stretched
	B	Image is cropped and enlarged, not optically magnified
	C	ISO automatically increase
	D	Lens aperture closes down
	E	None of the above
	Correct Answer	B
15	Marks	1
	Question Description	Use of polarizing filter in forensic photography is essential to:
	A	Increase depth of field
	B	Eliminate glare from reflective surfaces
	C	Correct chromatic aberration
	D	Adjust ISO sensitivity
	E	None of the above
	Correct Answer	B
	Marks	1

16	Question Description	Which trick photography method can help highlight latent footprints?
	A	Bas-relief technique
	B	Photomontage
	C	Wide screen star effect
	D	Cartoon making
	E	None of the above
	Correct Answer	A
17	Marks	1
	Question Description	If a digital camera is advertised with “20 megapixels,” what does this indicate?
	A	The size of each pixel
	B	The total number of pixels in an image
	C	Sensor size
	D	File compression method
	E	None of the above
	Correct Answer	B
	Marks	1

18	Question Description	During gas explosion scene documentation, which photographic technique provides the most reliable evidence of crack propagation on walls?
	A	Macro close-ups with scale
	B	Wide-angle panoramic shots
	C	Long exposure with artificial light
	D	Infrared photography
	E	None of the above
	Correct Answer	A
19	Marks	1
	Question Description	If spherical aberration is not corrected in lens, its effect on crime scene evidence photo will be:
	A	Entire image blurred uniformly
	B	Centre sharp, edges blurred
	C	False colors at boundaries
	D	Reduced field of view
	E	None of the above
	Correct Answer	B
	Marks	1

20

Question Description

Consider the following statements about primary vs secondary crime scenes:

1. Primary crime scene is always indoors.
2. Secondary scene may provide corroborative evidence but not the main act.
3. A vehicle used to transport a body can be treated as a secondary crime scene

Which of the above are correct?

A

1 and 2 only

B

2 and 3 only

C

1 and 3 only

D

1,2 and 3 only

E

None of the above

Correct Answer

B

Marks

1

21

Question Description	Chromatic aberration in Photographic lenses occurs because.
A	Different colors of light refract at different angles.
B	The shutter speed is too high.
C	The aperture is too small.
D	The sensor is overexposed
E	None of the above
Correct Answer	A
Marks	1

22

Question Description

Consider the following lighting techniques:

1. Oblique light- reveals impression and indentations.
2. Diffused light- minimizes reflections.
3. Direct overhead flash- enhances surface detail

Which are correctly matched?

A

1 and 2 only

B

2 and 3 only

C

1 and 3 only

D

1,2 and 3

E

None of the above

Correct Answer

A

Marks

1

23

Question Description	Which effect best describes “Solarization”?
A	Complete blackening of photo
B	Partial reversal of tones due to overexposure
C	Increased Sharpness
D	False colours due to white balance error
E	None of the above
Correct Answer	B
Marks	1

Question Description

Consider the following regarding chain of custody.

1. Improper sealing is minor defect and does not affect admissibility.
2. Every handler must sign and timestamp evidence transfer.
3. Electronic metadata can supplement physical logs.

Which are correct?

A

1 and 2

B

2 and 3

C

1 and 3

D

1, 2 and 3

E

None of the above

Correct Answer

B

Marks

1

25	Question Description	Leaf shutters are preferred in forensic close-up photography because:
	A	They synchronize with flash at all speeds
	B	They reduce chromatic aberration
	C	They provide shallower depth of field
	D	They eliminate motion blur
	E	None of the above
	Correct Answer	A
	Marks	1
26	Question Description	In Forensic darkroom printing, dodging is applied to:
	A	Darken specific areas
	B	Lighten specific areas
	C	Increase file size
	D	Enhance shutter speed
	E	None of the above
	Correct Answer	B
	Marks	1

27	Question Description	The first photograph at a crime scene should normally capture:
	A	Close-up of main evidence
	B	Overall view
	C	A mid-range o victim body
	D	Witness and suspects present
	E	None of the above
	Correct Answer	B
28	Marks	1
	Question Description	If a camera's focal plane shutter malfunctions, which type of photographic error is most likely?
	A	Vertical half of image dark, other half bright
	B	Entire image blurred
	C	Excessive color saturation
	D	Lens distortion increases
	E	None of the above
	Correct Answer	A
	Marks	1

29	Question Description	An outdoor secondary crime scene is documented at night. Despite flash use, the background context is lost. Which corrective measure is best?
	A	Increase ISO to maximum
	B	Use long exposure with tripod + ambient light capture
	C	Take close-ups only
	D	Reduce aperture to f/22
	E	None of the above
	Correct Answer	B
30	Marks	1
	Question Description	Which type of camera does NOT use a lens but instead forms an image by straight-line passage of light through a tiny hole?
	A	Box camera
	B	Pin-hole camera
	C	SLR camera
	D	Folding camera
	E	None of the above
	Correct Answer	B
	Marks	1

31

Comprehension**READ THE PASSAGE AND ANSWER THE QUESTIONS**

The impact of climate change on agricultural productivity has ushered in complex socio-economic repercussions, particularly for developing nations. Shifts in temperature and precipitation patterns disturb traditional cropping calendars, reduce yields, and exacerbate vulnerabilities of small-scale farmers. Moreover, these disruptions ripple through food supply chains, affecting availability and affordability. While technological interventions such as drought-resistant crops and precision farming hold promise, their accessibility remains uneven. Policy frameworks that integrate climate resilience into rural development, promote knowledge dissemination, and provide financial safety nets are vital. Further, community-led adaptation initiatives leveraging indigenous knowledge demonstrate localized success. Yet, the collective challenge persists: adapting farming practices swiftly and equitably to safeguard food security amid escalating climatic threats remains a formidable hurdle.

Question Description

What is one direct agricultural effect of climate change mentioned?

A

Increased export opportunities

B

Disturbance of cropping calendars

C

Mechanization of farms

D

Rural electrification

E

None of the above

Correct Answer

B

Marks

1

32

Comprehension	READ THE PASSAGE AND ANSWER THE QUESTIONS The impact of climate change on agricultural productivity has ushered in complex socio-economic repercussions, particularly for developing nations. Shifts in temperature and precipitation patterns disturb traditional cropping calendars, reduce yields, and exacerbate vulnerabilities of small-scale farmers. Moreover, these disruptions ripple through food supply chains, affecting availability and affordability. While technological interventions such as drought-resistant crops and precision farming hold promise, their accessibility remains uneven. Policy frameworks that integrate climate resilience into rural development, promote knowledge dissemination, and provide financial safety nets are vital. Further, community-led adaptation initiatives leveraging indigenous knowledge demonstrate localized success. Yet, the collective challenge persists: adapting farming practices swiftly and equitably to safeguard food security amid escalating climatic threats remains a formidable hurdle.
Question Description	How do these agricultural effects impact society beyond farmers?
A	By reducing pollution
B	By causing food availability and affordability issues
C	By increasing leisure time
D	By promoting urbanization
E	None of the above
Correct Answer	B
Marks	1

33

Comprehension**READ THE PASSAGE AND ANSWER THE QUESTIONS**

The impact of climate change on agricultural productivity has ushered in complex socio-economic repercussions, particularly for developing nations. Shifts in temperature and precipitation patterns disturb traditional cropping calendars, reduce yields, and exacerbate vulnerabilities of small-scale farmers. Moreover, these disruptions ripple through food supply chains, affecting availability and affordability. While technological interventions such as drought-resistant crops and precision farming hold promise, their accessibility remains uneven. Policy frameworks that integrate climate resilience into rural development, promote knowledge dissemination, and provide financial safety nets are vital. Further, community-led adaptation initiatives leveraging indigenous knowledge demonstrate localized success. Yet, the collective challenge persists: adapting farming practices swiftly and equitably to safeguard food security amid escalating climatic threats remains a formidable hurdle.

Question Description

What limits the promise of technological interventions?

A

Lack of scientific research

B

Accessibility inequalities

C

Farmer resistance

D

International law.

E

None of the above

Correct Answer

B

Marks

1

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Comprehension**READ THE PASSAGE AND ANSWER THE QUESTIONS**

The impact of climate change on agricultural productivity has ushered in complex socio-economic repercussions, particularly for developing nations. Shifts in temperature and precipitation patterns disturb traditional cropping calendars, reduce yields, and exacerbate vulnerabilities of small-scale farmers. Moreover, these disruptions ripple through food supply chains, affecting availability and affordability. While technological interventions such as drought-resistant crops and precision farming hold promise, their accessibility remains uneven. Policy frameworks that integrate climate resilience into rural development, promote knowledge dissemination, and provide financial safety nets are vital. Further, community-led adaptation initiatives leveraging indigenous knowledge demonstrate localized success. Yet, the collective challenge persists: adapting farming practices swiftly and equitably to safeguard food security amid escalating climatic threats remains a formidable hurdle.

Question Description

Which policy approach is emphasized as vital?

A

Integrating climate resilience into rural development

B

Eliminating small-scale farms

C

Focusing only on urban areas

D

Removing subsidies

E

None of the above

Correct Answer

A

Marks

1

Comprehension**READ THE PASSAGE AND ANSWER THE QUESTIONS**

The impact of climate change on agricultural productivity has ushered in complex socio-economic repercussions, particularly for developing nations. Shifts in temperature and precipitation patterns disturb traditional cropping calendars, reduce yields, and exacerbate vulnerabilities of small-scale farmers. Moreover, these disruptions ripple through food supply chains, affecting availability and affordability. While technological interventions such as drought-resistant crops and precision farming hold promise, their accessibility remains uneven. Policy frameworks that integrate climate resilience into rural development, promote knowledge dissemination, and provide financial safety nets are vital. Further, community-led adaptation initiatives leveraging indigenous knowledge demonstrate localized success. Yet, the collective challenge persists: adapting farming practices swiftly and equitably to safeguard food security amid escalating climatic threats remains a formidable hurdle.

Question Description

What overall challenge does the passage identify?

A

Mechanizing agriculture rapidly

B

Ensuring swift and equitable adaptation of farming to protect food security

C

Reducing food exports

D

Expanding urban farming exclusively

E

None of the above

Correct Answer

B

Marks

1

Comprehension

READ THE PASSAGE AND ANSWER THE QUESTIONS:

The vastness of the universe, with its billions of galaxies and innumerable stars, fuels ongoing speculation about the existence of extraterrestrial life. Astrobiology, the scientific discipline dedicated to studying life's potential beyond Earth, integrates astronomy, biology, and geology to explore this profound question. Despite decades of observation and advances in space exploration, definitive evidence of alien life remains elusive. However, discoveries of extremophiles on Earth — organisms thriving in conditions previously thought uninhabitable — expand the conceivable habitats where life might exist elsewhere. Furthermore, the identification of exoplanets within habitable zones around distant stars has intensified the search for biosignatures indicative of life. The Fermi Paradox, highlighting the contradiction between the high probability of extraterrestrial civilizations and the lack of contact, emphasizes the complexities of this quest. Reasons for the paradox range from the rarity of advanced life to limits on interstellar communication or travel. As technology progresses, initiatives like the Search for Extraterrestrial Intelligence (SETI) and upcoming space missions aim to unravel these cosmic mysteries, underscoring humanity's profound curiosity about our place in the cosmos.

Question Description

What is the primary focus of astrobiology as mentioned in the passage?

A

Exploring interstellar travel possibilities

B

Studying life's potential beyond Earth by integrating several scientific fields

C

Contacting alien civilizations directly

D

Cataloging planets in the solar system

E

None of the above

Correct Answer

B

Marks

1

Comprehension

READ THE PASSAGE AND ANSWER THE QUESTIONS:

The vastness of the universe, with its billions of galaxies and innumerable stars, fuels ongoing speculation about the existence of extraterrestrial life. Astrobiology, the scientific discipline dedicated to studying life's potential beyond Earth, integrates astronomy, biology, and geology to explore this profound question. Despite decades of observation and advances in space exploration, definitive evidence of alien life remains elusive. However, discoveries of extremophiles on Earth — organisms thriving in conditions previously thought uninhabitable — expand the conceivable habitats where life might exist elsewhere. Furthermore, the identification of exoplanets within habitable zones around distant stars has intensified the search for biosignatures indicative of life. The Fermi Paradox, highlighting the contradiction between the high probability of extraterrestrial civilizations and the lack of contact, emphasizes the complexities of this quest. Reasons for the paradox range from the rarity of advanced life to limits on interstellar communication or travel. As technology progresses, initiatives like the Search for Extraterrestrial Intelligence (SETI) and upcoming space missions aim to unravel these cosmic mysteries, underscoring humanity's profound curiosity about our place in the cosmos.

Question Description

How do extremophiles discovered on Earth contribute to the search for extraterrestrial life?

A

They prove aliens exist on Earth

B

They show life can exist in harsh environments

C

They disprove life beyond Earth is possible

D

They confuse scientists about possible life forms

E

None of the above

Correct Answer

B

Marks

1

Comprehension	READ THE PASSAGE AND ANSWER THE QUESTIONS: The vastness of the universe, with its billions of galaxies and innumerable stars, fuels ongoing speculation about the existence of extraterrestrial life. Astrobiology, the scientific discipline dedicated to studying life's potential beyond Earth, integrates astronomy, biology, and geology to explore this profound question. Despite decades of observation and advances in space exploration, definitive evidence of alien life remains elusive. However, discoveries of extremophiles on Earth — organisms thriving in conditions previously thought uninhabitable — expand the conceivable habitats where life might exist elsewhere. Furthermore, the identification of exoplanets within habitable zones around distant stars has intensified the search for biosignatures indicative of life. The Fermi Paradox, highlighting the contradiction between the high probability of extraterrestrial civilizations and the lack of contact, emphasizes the complexities of this quest. Reasons for the paradox range from the rarity of advanced life to limits on interstellar communication or travel. As technology progresses, initiatives like the Search for Extraterrestrial Intelligence (SETI) and upcoming space missions aim to unravel these cosmic mysteries, underscoring humanity's profound curiosity about our place in the cosmos.
Question Description	What does the Fermi Paradox highlight?
A	The abundance of alien signals detected
B	The contradiction between probable alien civilizations and no contact
C	The ease of interstellar travel
D	The rarity of planets in the universe
E	None of the above
Correct Answer	B
Marks	1

39

Comprehension

READ THE PASSAGE AND ANSWER THE QUESTIONS:

The vastness of the universe, with its billions of galaxies and innumerable stars, fuels ongoing speculation about the existence of extraterrestrial life. Astrobiology, the scientific discipline dedicated to studying life's potential beyond Earth, integrates astronomy, biology, and geology to explore this profound question. Despite decades of observation and advances in space exploration, definitive evidence of alien life remains elusive. However, discoveries of extremophiles on Earth — organisms thriving in conditions previously thought uninhabitable — expand the conceivable habitats where life might exist elsewhere. Furthermore, the identification of exoplanets within habitable zones around distant stars has intensified the search for biosignatures indicative of life. The Fermi Paradox, highlighting the contradiction between the high probability of extraterrestrial civilizations and the lack of contact, emphasizes the complexities of this quest. Reasons for the paradox range from the rarity of advanced life to limits on interstellar communication or travel. As technology progresses, initiatives like the Search for Extraterrestrial Intelligence (SETI) and upcoming space missions aim to unravel these cosmic mysteries, underscoring humanity's profound curiosity about our place in the cosmos.

Question Description

Which of the following is NOT cited as a potential reason for the Fermi Paradox?

A

Rarity of advanced life

B

Limitations of interstellar communication

C

Human preference for solitude

D

Limits on interstellar travel

E

None of the above

Correct Answer

C

Marks

1

Comprehension

READ THE PASSAGE AND ANSWER THE QUESTIONS:

The vastness of the universe, with its billions of galaxies and innumerable stars, fuels ongoing speculation about the existence of extraterrestrial life. Astrobiology, the scientific discipline dedicated to studying life's potential beyond Earth, integrates astronomy, biology, and geology to explore this profound question. Despite decades of observation and advances in space exploration, definitive evidence of alien life remains elusive. However, discoveries of extremophiles on Earth — organisms thriving in conditions previously thought uninhabitable — expand the conceivable habitats where life might exist elsewhere. Furthermore, the identification of exoplanets within habitable zones around distant stars has intensified the search for biosignatures indicative of life. The Fermi Paradox, highlighting the contradiction between the high probability of extraterrestrial civilizations and the lack of contact, emphasizes the complexities of this quest. Reasons for the paradox range from the rarity of advanced life to limits on interstellar communication or travel. As technology progresses, initiatives like the Search for Extraterrestrial Intelligence (SETI) and upcoming space missions aim to unravel these cosmic mysteries, underscoring humanity's profound curiosity about our place in the cosmos.

Question Description

What future efforts are described as aiming to unravel the mysteries of alien life?

A

More speculative fiction writing

B

Initiatives like SETI and upcoming space missions

C

Increasing science fiction movies

D

Reducing space funding

E

None of the above

Correct Answer

B

Marks

1

41	Question Description	Which prominent tournament marked Goa's top domestic cricket league in March-April 2025, featuring teams competing in a round-robin format?
	A	Goa 20-20 League
	B	Goa Cricket League
	C	Goa Premier League
	D	Vedant XI Trophy
	E	None of the above
	Correct Answer	C
	Marks	1

42	Question Description	In which state was India's first Vulture Conservation Portal launched?
	A	Madhya Pradesh
	B	Assam
	C	Rajasthan
	D	Gujarat
	E	None of the above
	Correct Answer	B
	Marks	1
43	Question Description	Where was India's first mobile tempered glass factory inaugurated in 2025?
	A	Noida
	B	Pune
	C	Bengaluru
	D	Hyderabad
	E	None of the above
	Correct Answer	A
	Marks	1

44	Question Description	Which Indian state has announced plans to establish a space city and two defence hubs with a combined investment of ₹3,400 crore?
	A	Andhra Pradesh
	B	Telangana
	C	Karnataka
	D	Tamil Nadu
	E	None of the above
	Correct Answer	A
	Marks	1

45	Question Description	Punatsangchhu-II Hydroelectric Project is a major India-supported initiative in which country?
	A	Nepal
	B	Bangladesh
	C	Bhutan
	D	Myanmar
	E	None of the above
	Correct Answer	C
	Marks	1

46	Question Description	What new campaign by Goa Tourism was honored with an Excellence Award in August 2025?
	A	Goa Nightlife Revival
	B	Goa Heritage Walks
	C	Goa Beyond Beaches
	D	Green Goa Initiative
	E	None of the above
	Correct Answer	C
	Marks	1
47	Question Description	The Kaushalya Dam, important for flood control and water supply, is located in which Indian state?
	A	Haryana
	B	Maharashtra
	C	Punjab
	D	Tamil Nadu
	E	None of the above
	Correct Answer	A
	Marks	1

48	Question Description	Recently which Indian ministry released “Ease of Living Index” ranking cities for urban quality of life?
	A	Ministry of Agriculture.
	B	Ministry of Housing and Urban Affairs.
	C	Ministry of town planning.
	D	Ministry of Education.
	E	None of the above
	Correct Answer	B
	Marks	1
49	Question Description	Where was the “Semicon India 2025” conference held in September 2025?
	A	New Delhi
	B	Chennai
	C	Bengaluru
	D	Pune
	E	None of the above
	Correct Answer	A
	Marks	1

50	Question Description	What academic calendar change has Goa's education department proposed starting in 2025?
	A	Division into three semesters
	B	Academic year starting in April
	C	School days reduced to three a week
	D	Exams only in November
	E	None of the above
	Correct Answer	B
	Marks	1

51

Question Description

Read each definition and all four choices carefully, and find the answer that provides the best example of the given definition.

Establishing a Power of Attorney occurs when a legal document is created that gives one individual the authority to act for another. Which situation below is the best example of Establishing a Power of Attorney?

A

Louise is selling her house and she hires a lawyer to review the contract.

B

Simone's mother can no longer get to the bank to cash her checks and make deposits, so she has taken legal steps to enable Simone to do these things for her.

C

Jack's father is elderly and Jack thinks he is no longer able to make decisions for himself.

D

At her daughter's urging, Mrs.Lenox opens up a retirement account with the local bank.

E

None of the above

Correct Answer

B

Marks

1

52	Question Description Find the word that names a necessary part of the underlined word. <u>facsimile</u>
A	depiction
B	image
C	mimeograph
D	copier
E	None of the above
Correct Answer	B
Marks	1
53	Question Description Which word does NOT belong with the others?
A	unimportant
B	trivial
C	insignificant
D	familiar
E	None of the above
Correct Answer	D
Marks	1

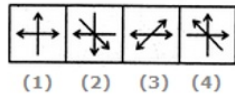
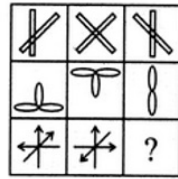
54

Question Description	The average age of 30 students is 15 years. If teacher's age is included, average rises by 1. Find teacher's age.
A	45
B	46
C	47
D	48
E	None of the above
Correct Answer	B
Marks	1

55

Question Description

Select a suitable figure from the four alternatives that would complete the figure matrix.

**A**

1

B

2

C

3

D

4

E

None of the above

Correct Answer

C

Marks

1

56	Question Description	Find the least number by which 3645 must be multiplied to make it a perfect cube.
	A	3
	B	5
	C	25
	D	30
	E	None of the above
	Correct Answer	C
	Marks	1

57	Question Description	A boat goes 12 km downstream in 3 hr, and 6 km upstream in 2 hr. Find speed of boat in still water.
	A	2 km/h
	B	3 km/h
	C	4 km/h
	D	3.5 km/h
	E	None of the above
	Correct Answer	D
	Marks	1

Question Description	Two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship. Read both the statements in each question and mark your answer as Statements: I. Rural and semi-urban areas in the country have been suffering due to load shedding for quite some time. II. If the Government is not able to overcome the power crisis, load shedding will be extended even to the urban areas.
A	Statement I is the cause and statement II is its effect
B	Statement II is the cause and statement I is its effect
C	Both the statements I and II are independent causes
D	Both the statements I and II are effects of some common cause
E	None of the above
Correct Answer	D
Marks	1

59

Question Description	A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?
A	2.91 m
B	3 m
C	5.82 m
D	5,76m
E	None of the above
Correct Answer	B
Marks	1

60

Question Description	A shopkeeper sells a watch at 10% profit. If he had bought it at 10% less and sold it for ₹27 less, he would have gained 20%. Find the cost price.
A	₹2250
B	₹2505
C	₹1350
D	₹3000
E	None of the above
Correct Answer	C
Marks	1

61

Question Description	A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot @ 4 km/hr and partly on bicycle @ 9 km/hr. The distance travelled on foot is:
A	14 km
B	15 km
C	16 km
D	17 km
E	None of the above
Correct Answer	C
Marks	1

Question Description	Each question presents a situation and asks you to make a judgment regarding that particular circumstance. Choose an answer based on given information. Rita, an accomplished pastry chef who is well known for her artistic and exquisite wedding cakes, opened a bakery one year ago and is surprised that business has been so slow. A consultant she hired to conduct market research has reported that the local population doesn't think of her shop as one they would visit on a daily basis but rather a place they'd visit if they were celebrating a special occasion. Which of the following strategies should Rita employ to increase her daily business?
A	making coupons available that entitle the coupon holder to receive a 25% discount on wedding, anniversary, or birthday cakes
B	exhibiting at the next Bridal Expo and having pieces of one of her wedding cakes available for tasting
C	placing a series of ads in the local newspaper that advertise the wide array of breads
D	moving the bakery to the other side of town
E	None of the above
Correct Answer	C
Marks	1

63

Question Description	What day of the week was 15th August 1947 (India's Independence Day)?
A	Wednesday
B	Thursday
C	Friday
D	Saturday
E	None of the above
Correct Answer	C
Marks	1

Question Description

Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures:

Δ	Δ	$\circ$	$\circ$	$=$
$\circ$ x	$= \circ$	$= s$	$x =$	$x \Delta$
$s =$	$s x$	Δx	Δs	$\circ s$

(A) (B) (C) (D) (E)

Answer Figures:

s	$=$	$\circ$	Δ	x
$= x$	$s x$	$s x$	$s x$	$s =$
$\circ \Delta$	$\circ \Delta$	$\Delta =$	$\circ =$	$\circ \Delta$

(1) (2) (3) (4) (5)

A

1

B

2

C

3

D

4

E

None of the above

Correct Answer

B

Marks

1

65	Question Description	The length of the bridge, which a train 130 metres long and travelling at 45 km/hr can cross in 30 seconds, is:
	A	200 m
	B	225 m
	C	245 m
	D	250 m
	E	None of the above
	Correct Answer	C
	Marks	1

Question Description

You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement: In spite of less than normal rainfall in the catchment areas during the first two months of monsoon of the lakes supplying water to the city the authority has not yet affected any cut in the water supply to the city.

Assumptions:

- I. The rainfall during the remaining part of the monsoon may be adequate for normal water supply.
- II. The present water level of the lakes supplying water to the city may be adequate for normal supply.

A

Only assumption I is implicit

B

Only assumption II is implicit

C

Either I or II is implicit

D

Both I and II are implicit

E

None of the above

Correct Answer

D

Marks

1

67	Question Description	A sphere of radius 7 cm is melted and recast into smaller spheres of radius 1 cm. How many such spheres are formed?
	A	224
	B	324
	C	343
	D	448
	E	None of the above
	Correct Answer	C
	Marks	1

68	Question Description	If 60% of students in a school are boys and 25% of the boys are scholarship holders, while 30% of the girls are scholarship holders, what % of the total students are scholarship holders?
	A	25%
	B	27%
	C	30%
	D	32%
	E	None of the above
	Correct Answer	B
69	Marks	1
	Question Description	Find the smallest number which when divided by 12, 18, 21 or 30 leaves remainder 7 in each case.
	A	427
	B	4277
	C	1067
	D	1267
	E	None of the above
	Correct Answer	D
	Marks	1

70	Question Description	A sum amounts to ₹2520 in 3 years at 12% simple interest per annum. Find the principal.
	A	approx. ₹1800
	B	approx. ₹1852
	C	approx. ₹2250
	D	approx. ₹2400
	E	None of the above
	Correct Answer	B
71	Marks	1
	Question Description	A person covers 30 km at 6 km/h and returns at 10 km/h. What is his average speed for the entire journey?
	A	7 km/h
	B	7.5 km/h
	C	8 km/h
	D	8.5 km/h
	E	None of the above
	Correct Answer	B
	Marks	1

72

Question Description	The HCF of two numbers is 12 and their LCM is 924. If one number is 132, find the other.
A	72
B	84
C	96
D	108
E	None of the above
Correct Answer	B
Marks	1

73

Question Description	Ayesha's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents?
A	2 years
B	4 years
C	6 years
D	8 years
E	None of the above
Correct Answer	C
Marks	1

74	Question Description	If 15 men complete a work in 24 days, how many men will complete same work in 10 days?
	A	30
	B	36
	C	45
	D	50
	E	None of the above
	Correct Answer	B
75	Marks	1
	Question Description	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?
	A	40
	B	50
	C	54
	D	60
	E	None of the above
	Correct Answer	D
	Marks	1