

Computer Based Examination System

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Title *	Question Paper Answer Key
OES Exam *	GPSC04202404 / Technical Officer / Completed / 2024-12-21

1	Question Description	Which method of waste collection is most effective for minimizing the spread of infectious diseases in urban areas?
	A	Curbside collection with manual sorting
	B	Automated vacuum collection systems
	C	Communal bins with scheduled pick-ups
	D	Drop-off centers for sorted waste
	E	None of the above
	Correct Answer	B
	Marks	1

2	Question Description	What is the primary benefit of implementing a pay-as-you-throw (PAYT) waste collection system in a municipality?
	A	Decreased waste collection costs
	B	Increased revenue for waste management services
	C	Encouragement of waste reduction and recycling
	D	Simplification of billing processes
	E	None of the above
	Correct Answer	C
	Marks	1

3	Question Description	How long does copyright protection last for literary works in India?
	A	50 years after creation
	B	Lifetime of the author
	C	Lifetime of the author plus 60 years
	D	Lifetime of the author plus 75 years
	E	None of the above
	Correct Answer	C
	Marks	1

4

Question Description	What type of solid industrial waste is generated during the smelting process of metals and is known for containing heavy metals and other toxic substances?
A	Slag
B	Fly ash
C	Foundry sand
D	Industrial sludge
E	None of the above
Correct Answer	A
Marks	1

5	Question Description	What is the primary benefit of using Synthetic Aperture Radar (SAR) for monitoring solid waste landfills?
	A	High temporal resolution for frequent monitoring
	B	Ability to detect subsurface waste layers
	C	Capability to penetrate through vegetation and soil
	D	High spectral resolution for identifying specific waste types
	E	None of the above
	Correct Answer	C
	Marks	1

6	Question Description	Which condition is necessary for a structure to be statically determinate?
	A	The number of equations of equilibrium equals the number of unknown forces
	B	The structure must be symmetrical
	C	The structure must have the same material throughout
	D	The external forces must be uniformly distributed
	E	None of the above
	Correct Answer	A
	Marks	1

7

Question Description	Which GIS operation involves the process of combining multiple layers of spatial data to identify relationships between them?
A	Clipping
B	Buffering
C	Overlay
D	Interpolation
E	None of the above
Correct Answer	C
Marks	1

8	Question Description	Which category of biomedical waste is typically disposed of through incineration?
	A	Sharps
	B	Anatomical waste
	C	Chemical waste
	D	infectious waste
	E	None of the above
	Correct Answer	B
	Marks	1
9	Question Description	Goa's Seed Capital scheme is implemented by
	A	Directorate of Industries, Trade and Commerce
	B	Department of Agriculture
	C	Department of IT, Electronics and Communications
	D	Department of Science and Technology
	E	None of the above
	Correct Answer	C
	Marks	1

10	Question Description	Goa Waste Management Corporation was setup in the year.
	A	2005
	B	2010
	C	2016
	D	2023
	E	None of the above
	Correct Answer	C
	Marks	1

11	Question Description	For a simply supported beam with a uniform load, where does the maximum bending moment occur?
	A	At the supports
	B	At the midpoint of the beam
	C	At the quarter-span points
	D	At one-third of the span from each end
	E	None of the above
	Correct Answer	B
	Marks	1

12

Question Description	IRIS-LD scheme is implemented by
A	Startup and IT Promotion Cell
B	Goa State Research Foundation
C	Goa State Innovation Council
D	Goa University
E	None of the above
Correct Answer	B
Marks	1

13	Question Description	Which advanced method of waste disposal involves the thermal decomposition of organic materials at high temperatures in the absence of oxygen?
	A	Composting
	B	Incineration
	C	Pyrolysis
	D	Landfilling
	E	None of the above
	Correct Answer	C
	Marks	1

14	Question Description	What type of biomedical waste includes discarded animal carcasses and tissues?
	A	Infectious waste
	B	Pathological waste
	C	Pharmaceutical waste
	D	Chemical waste
	E	None of the above
	Correct Answer	B
	Marks	1

15

Question Description	An entity becomes a recognised startup once they register and get recognition from
A	DST
B	DPIIT
C	DITC
D	DSTE
E	None of the above
Correct Answer	B
Marks	1

16

Question Description	In the design of shafts, which criterion is generally used to ensure that the shaft will not fail under combined loading conditions?
A	Maximum normal stress theory
B	Distortion energy theory (Von Mises)
C	Coulomb-Mohr theory
D	Maximum shear stress theory (Tresca)
E	None of the above
Correct Answer	B
Marks	1

17	Question Description	Which initiative aims to establish a circular economy by enhancing Goa's existing waste management infrastructure through the establishment of a Material Recovery Facility (MRF)?
	A	Project SAIM
	B	Goa Waste Management Corporation (GWMC)
	C	Solid Waste Management Cell
	D	High-Level Task Force (HLTF)
	E	None of the above
	Correct Answer	A
	Marks	1

18	Question Description	In the context of structural analysis, what is the primary purpose of using the Moment Distribution Method?
	A	To analyze indeterminate structures by balancing moments at nodes
	B	To calculate the deflections of beams and frames
	C	To determine the natural frequencies of vibration of a structure
	D	To design foundations for uneven soil conditions
	E	None of the above
	Correct Answer	A
	Marks	1

19	Question Description	Which of the following is a significant environmental challenge faced by Goa due to its tourism industry?
	A	Deforestation
	B	Air pollution
	C	Water scarcity
	D	Coastal erosion
	E	None of the above
	Correct Answer	D
	Marks	1

20	Question Description	Which technology is being explored to track and verify the lifecycle of waste materials, ensuring transparency and accountability in waste management practices?
	A	Big Data and Analytics
	B	Blockchain
	C	Internet of Things (IoT)
	D	Advanced Recycling
	E	None of the above
	Correct Answer	B
	Marks	1

21	Question Description	When was India's National Intellectual Property Rights (IPR) Policy adopted.
	A	2005
	B	2010
	C	2016
	D	2023
	E	None of the above
	Correct Answer	C
	Marks	1

22	Question Description	Which of the following is classified as a hazardous industrial waste due to its high toxicity and potential for environmental damage?
	A	Construction debris
	B	Electronic waste (e-waste)
	C	Food processing waste
	D	Scrap metal
	E	None of the above
	Correct Answer	B
	Marks	1

23	Question Description	What is the standard duration of a patent under the TRIPS Agreement?
	A	10 years.
	B	20 years.
	C	25 years.
	D	50 years.
	E	None of the above
	Correct Answer	B
	Marks	1

24	Question Description	Which of the following is a key component of the circular economy model in waste management, aiming to minimize waste generation and maximize resource efficiency?
	A	Incineration with energy recovery
	B	Landfilling with advanced liners
	C	Waste-to-Energy systems
	D	Waste prevention and reuse
	E	None of the above
	Correct Answer	D
	Marks	1

25	Question Description	In a centrifugal pump, what is the primary function of the impeller?
	A	To increase the pressure of the fluid
	B	To decrease the velocity of the fluid
	C	To regulate the flow rate
	D	To filter out impurities
	E	None of the above
	Correct Answer	A
	Marks	1

26	Question Description	In waste-to-energy systems, what is the primary purpose of the anaerobic digestion process, and what are its main by-products?
	A	To decompose organic matter aerobically; main by-products are compost and heat
	B	To decompose organic matter anaerobically; main by-products are biogas and digestate
	C	To combust organic matter in the presence of oxygen; main by-products are ash and flue gas
	D	To thermally decompose organic matter in the absence of oxygen; main by-products are syngas and biochar
	E	None of the above
	Correct Answer	B
	Marks	1

27

Question Description	Which of the following is an advantage of using hyperspectral sensors over multispectral sensors in remote sensing applications?
A	Lower data volume
B	Higher spatial resolution
C	Ability to detect a wider range of wavelengths
D	Simpler data processing
E	None of the above
Correct Answer	C
Marks	1

28	Question Description	In the context of industrial waste management, which type of solid waste is primarily composed of non-biodegradable and non-recyclable materials used in packaging?
	A	Municipal solid waste
	B	Manufacturing scrap
	C	Post-consumer waste
	D	Plastics and synthetic polymers
	E	None of the above
	Correct Answer	D
	Marks	1

29	Question Description	Which principle explains the operation of a hydraulic press?
	A	Pascal's principle
	B	Bernoulli's principle
	C	Archimedes' principle
	D	Newton's third law
	E	None of the above
	Correct Answer	A
	Marks	1

30

Question Description	What is the main advantage of using robotics in waste sorting processes within waste management facilities?
A	Increased job opportunities for manual laborers
B	Enhanced precision and efficiency in sorting recyclables
C	Reduction in the use of chemicals for waste treatment
D	Elimination of the need for waste transportation
E	None of the above
Correct Answer	B
Marks	1

31

Comprehension

Read the following passage and answer the questions below:

The discipline of the navy was of a piece throughout. As the courtly captain disdained the Admiralty, he was in turn despised by his crew. It could not be concealed that he was inferior in seamanship to every foremast man on board. It was idle to expect that old sailors, familiar with the hurricanes of the tropics and with icebergs of the Arctic Circle, would pay a prompt and respectful obeisance to a chief who knew no more of winds and waves than could be learned in a gilded barge between Whitehall Stairs and Hampton Court. To trust such a novice with the working of a ship was evidently impossible.

Question Description

The phrase “prompt and respectful obeisance” in the passage implies

A

immediate deferential respect

B

quick respectful gesture

C

respectful avoidance of order

D

respect paid without delay

E

None of the above

Correct Answer

A

Marks

1

32

Comprehension

Read the following passage and answer the questions below:

The discipline of the navy was of a piece throughout. As the courtly captain disdained the Admiralty, he was in turn despised by his crew. It could not be concealed that he was inferior in seamanship to every foremast man on board. It was idle to expect that old sailors, familiar with the hurricanes of the tropics and with icebergs of the Arctic Circle, would pay a prompt and respectful obeisance to a chief who knew no more of winds and waves than could be learned in a gilded barge between Whitehall Stairs and Hampton Court. To trust such a novice with the working of a ship was evidently impossible.

Question Description

Read the following statements and arrange them in logical sequence

- (i) His knowledge of winds and waves was limited and elementary.
- (ii) He despised the Admiralty and was in turn despised by his crew.
- (iii) He was inferior in seamanship even to a foremast man on board.
- (iv) The captain was a courtly appointee.

A

(ii)-(i)-(iv)-(iii)

B

(iv)-(i)-(iii)-(ii)

C

(ii)-(i)-(iii)-(iv)

D

(iv)-(iii)-(ii)-(i)

E

None of the above

Correct Answer

B

Marks

1

33

Comprehension

Read the following passage and answer the questions below:

The discipline of the navy was of a piece throughout. As the courtly captain disdained the Admiralty, he was in turn despised by his crew. It could not be concealed that he was inferior in seamanship to every foremast man on board. It was idle to expect that old sailors, familiar with the hurricanes of the tropics and with icebergs of the Arctic Circle, would pay a prompt and respectful obeisance to a chief who knew no more of winds and waves than could be learned in a gilded barge between Whitehall Stairs and Hampton Court. To trust such a novice with the working of a ship was evidently impossible.

Question Description

From the tenor of the passage, identify the option that is closest to the meaning of “inexperienced and new to the job”

A

courtly captain

B

inferior in seamanship

C

knowing little of winds and waves

D

novice

E

None of the above

Correct Answer

D

Marks

1

34

Comprehension

Read the following passage and answer the questions below:

The discipline of the navy was of a piece throughout. As the courtly captain disdained the Admiralty, he was in turn despised by his crew. It could not be concealed that he was inferior in seamanship to every foremast man on board. It was idle to expect that old sailors, familiar with the hurricanes of the tropics and with icebergs of the Arctic Circle, would pay a prompt and respectful obeisance to a chief who knew no more of winds and waves than could be learned in a gilded barge between Whitehall Stairs and Hampton Court. To trust such a novice with the working of a ship was evidently impossible.

Question Description

The passage implies that the experienced crew failed to respect their chief because he

A

despised the Admiralty

B

was a novice

C

was inferior to them in seamanship

D

was a courtly captain

E

None of the above

Correct Answer

C

Marks

1

35

Comprehension

Read the following passage and answer the questions below:

The discipline of the navy was of a piece throughout. As the courtly captain disdained the Admiralty, he was in turn despised by his crew. It could not be concealed that he was inferior in seamanship to every foremast man on board. It was idle to expect that old sailors, familiar with the hurricanes of the tropics and with icebergs of the Arctic Circle, would pay a prompt and respectful obeisance to a chief who knew no more of winds and waves than could be learned in a gilded barge between Whitehall Stairs and Hampton Court. To trust such a novice with the working of a ship was evidently impossible.

Question Description

Find the option that is antonymous to the word “concealed” as used in the passage

A

opened

B

hidden

C

expose

D

revealed

E

None of the above

Correct Answer

D

Marks

1

Comprehension

Read the following passage and answer the questions below:

The need for solar electricity is clear. It is safe, ecologically sound, continuously available, and has no moving parts. The basic problem with the solar photovoltaic devices is economics, but until recently very little progress had been made towards the development of low-cost photovoltaic devices. The larger part of research funds has been devoted to study of single-crystal silicon solar cells, despite the evidence, including that of leading manufacturers of crystalline silicon, that this technique holds little promise. The reason for this pattern is understandable and historical. Crystalline silicon is the active element in the very successful semi-conductor industry, and virtually all of the solid state devices contain silicon transistors and diodes. Crystalline silicon, however, is particularly unsuitable for terrestrial solar cells.

Question Description

The main advantage of the solar photovoltaic devices over single-crystalline solar cell is that

A

Little by little, progress is taking place in developing them

B

They are being developed in spite of inadequate research funds

C

They are suitable for terrestrial solar cells

D

They are facing stiff competition with semiconductor industry

E

None of the above

Correct Answer

C

Marks

1

Comprehension

Read the following passage and answer the questions below:

The need for solar electricity is clear. It is safe, ecologically sound, continuously available, and has no moving parts. The basic problem with the solar photovoltaic devices is economics, but until recently very little progress had been made towards the development of low-cost photovoltaic devices. The larger part of research funds has been devoted to study of single-crystal silicon solar cells, despite the evidence, including that of leading manufacturers of crystalline silicon, that this technique holds little promise. The reason for this pattern is understandable and historical. Crystalline silicon is the active element in the very successful semi-conductor industry, and virtually all of the solid state devices contain silicon transistors and diodes. Crystalline silicon, however, is particularly unsuitable for terrestrial solar cells.

Question Description

Read the following statements and arrange them in logical sequence

- (i) Much research funding is diverted to single-crystal silicon solar cells.
- (ii) Photovoltaic devices are being developed in spite of low funding
- (iii) Solar electricity is necessary, ecologically safe and continually available.
- (iv) Crystalline silicon is unsuitable for terrestrial solar cells.

A (iii)-(ii)-(iii)-(iv)

B (i)-(iv)-(ii)-(iii)

C (ii)-(iii)-(i)-(iv)

D (iii)-(i)-(ii)-(iv)

E None of the above

Correct Answer A

Marks 1

Comprehension

Read the following passage and answer the questions below:

The need for solar electricity is clear. It is safe, ecologically sound, continuously available, and has no moving parts. The basic problem with the solar photovoltaic devices is economics, but until recently very little progress had been made towards the development of low-cost photovoltaic devices. The larger part of research funds has been devoted to study of single-crystal silicon solar cells, despite the evidence, including that of leading manufacturers of crystalline silicon, that this technique holds little promise. The reason for this pattern is understandable and historical. Crystalline silicon is the active element in the very successful semi-conductor industry, and virtually all of the solid state devices contain silicon transistors and diodes. Crystalline silicon, however, is particularly unsuitable for terrestrial solar cells.

Question Description

Read the following statements and state whether they are true or false on the basis of the implied sense of the passage

(i) Much research funding is devoted to single-crystal silicon solar cell due to its industrial applicability in semi-conductors.

(ii) Comparatively, research on photovoltaic devices receives tight-fisted funding as they are uneconomical and unsuitable in terrestrial solar cells

A (i) and (ii) are both true

B (i) is false but (ii) is true

C (i) is true but (ii) is false

D (i) and (ii) are both false

E None of the above

Correct Answer C

Marks 1

39

Comprehension

Read the following passage and answer the questions below:

The need for solar electricity is clear. It is safe, ecologically sound, continuously available, and has no moving parts. The basic problem with the solar photovoltaic devices is economics, but until recently very little progress had been made towards the development of low-cost photovoltaic devices. The larger part of research funds has been devoted to study of single-crystal silicon solar cells, despite the evidence, including that of leading manufacturers of crystalline silicon, that this technique holds little promise. The reason for this pattern is understandable and historical. Crystalline silicon is the active element in the very successful semi-conductor industry, and virtually all of the solid state devices contain silicon transistors and diodes. Crystalline silicon, however, is particularly unsuitable for terrestrial solar cells.

Question Description

The evidence mentioned in the passage is crucial in the context of solar electricity because

A

it comes from leading manufacturers of crystalline silicon

B

it is understandable and historical in nature

C

it is in favour of crystalline silicon solar cell

D

it shows that the technique of photovoltaic devices is more suitable

E

None of the above

Correct Answer

D

Marks

1

40

Comprehension	<p>Read the following passage and answer the questions below:</p> <p>The need for solar electricity is clear. It is safe, ecologically sound, continuously available, and has no moving parts. The basic problem with the solar photovoltaic devices is economics, but until recently very little progress had been made towards the development of low-cost photovoltaic devices. The larger part of research funds has been devoted to study of single-crystal silicon solar cells, despite the evidence, including that of leading manufacturers of crystalline silicon, that this technique holds little promise. The reason for this pattern is understandable and historical. Crystalline silicon is the active element in the very successful semi-conductor industry, and virtually all of the solid state devices contain silicon transistors and diodes. Crystalline silicon, however, is particularly unsuitable for terrestrial solar cells.</p>
Question Description	From the options provided, identify the meaning of “terrestrial” as it is implied in the phrase “terrestrial solar cell”
A	electricity produced on the earth
B	made on, applicable to or functional on earth
C	solar cell produced on dry earth
D	worldly
E	None of the above
Correct Answer	B
Marks	1

41

Question Description	Which Indian company placed an order for 100 Airbus aircraft in December 2024?
A	Aditya Birla Group
B	Reliance Industries
C	Air India
D	SpiceJet
E	None of the above
Correct Answer	C
Marks	1

42

Question Description	Who was appointed as the new Governor of the Reserve Bank of India (RBI) in December 2024?
A	Shaktikanta Das
B	Sanjay Malhotra
C	Raghuram Rajan
D	Urjit Patel
E	None of the above
Correct Answer	B
Marks	1

43	Question Description	On which date is World Soil Day celebrated annually?
	A	December 3
	B	December 4
	C	December 5
	D	December 6
	E	None of the above
	Correct Answer	C
	Marks	1

44	Question Description	Where has the Indian Army successfully installed Optical Fibre connectivity for the first time?
	A	Kargil
	B	Leh
	C	Siachen
	D	Jammu
	E	None of the above
	Correct Answer	C
	Marks	1

45	Question Description	Which Indian state proposed to include Lonar Lake in the UNESCO World Heritage Sites list in December 2024?
	A	Maharashtra
	B	Rajasthan
	C	Kerala
	D	Tamil Nadu
	E	None of the above
	Correct Answer	A
	Marks	1

46	Question Description	On which date is World AIDS Day observed annually?
	A	December 1
	B	November 30
	C	December 5
	D	November 25
	E	None of the above
	Correct Answer	A
	Marks	1

47

Question Description**Which bilateral naval exercise was conducted by the Indian Navy (IN) and the Royal Navy of Oman (RNO) off the coast of Goa from October 13th to October 18th, 2024?****A**

Exercise Kakadu

B

Exercise Eastern Bridge

C

Exercise SIMBEX

D

Naseem Al Bahr

E

None of the above

Correct Answer

D

Marks

1

48

Question Description	In which Indian state was the multi-agency disaster relief exercise 'Sanyukt Vimochan 2024' conducted by the Indian Army?
A	Maharashtra
B	Gujarat
C	Karnataka
D	Tamil Nadu
E	None of the above
Correct Answer	B
Marks	1

49

Question Description	How many Indian astronauts were selected for the Axiom-4 mission to the International Space Station?
A	Two
B	Three
C	Four
D	One
E	None of the above
Correct Answer	A
Marks	1

50

Question Description	Which Indian badminton player won the gold medal at the Syed Modi International Badminton Tournament in December 2024?
A	Saina Nehwal
B	Kidambi Srikanth
C	P.V. Sindhu
D	Lakshya Sen
E	None of the above
Correct Answer	C
Marks	1

51

Question Description	Find the odd man out. 835, 734, 642, 751, 853, 981, 532
A	751
B	853
C	981
D	532
E	None of the above
Correct Answer	A
Marks	1

52

Question Description	Find odd man out 396, 462, 572, 427, 671, 264
A	396
B	427
C	671
D	264
E	None of the above
Correct Answer	B
Marks	1

53	Question Description A B C D E Correct Answer Marks	A is 30% more efficient than B. How much time will they, working together, take to complete a job which A alone could have done in 23 days? 11 days 13 days $20\frac{3}{17}$ days 5 days None of the above B 1
54	Question Description	Directions: Read the following information carefully and answer the questions given beside. Seven cricket teams won world cup tournaments that were held after every 4 years from year 1995 onwards. These cricket teams are – India, Australia, Pakistan, West Indies, Sri Lanka, England and New Zealand. The world cup tournament was hosted by the countries mentioned above such that each country hosts one world cup tournament. Only England won the world cup in the year in which it has hosted the tournament. West Indies won World cup when Sri Lanka hosted it but not in the year 1999. Pakistan was the third country to win the world cup. India won the world cup in the year in which it was hosted by New Zealand. India hosted the world cup just before Sri Lanka won it. Sri Lanka won the world cup just before hosting the world cup title. 2 world cup tournaments were held between the winning year and hosting year of India. England won just after the win by India. New Zealand won the world cup just before it was won by Australia. Australia won the world cup in the year it was hosted by Pakistan. Australia was neither the last nor the first one to win world cup. Sri Lanka did not won the world cup in West Indies. Which of the following pairs shows the winner and host of year 2011 respectively?

A	West Indies – Sri Lanka
B	Pakistan – India
C	India – Australia
D	New Zealand – West Indies
E	None of the above
Correct Answer	A
Marks	1

Question Description

Question presents a situation and asks you to make a judgment regarding that particular circumstance. Choose an answer based on given information.

Zachary has invited his three buddies over to watch the basketball game on his wide-screen television. They are all hungry, but no one wants to leave to get food. Just as they are arguing about who should make the food run, a commercial comes on for a local pizze-ria that delivers. The phone number flashes on the screen briefly and they all try to remember it. By the time Zachary grabs a pen and paper, each of them recollects a different number.

#1: All of the men agree that the first three numbers are 995.

#2: Three of them agree that the fourth number is 9.

#3: Three agree that the fifth number is 2.

#4: Three agree that the sixth number is 6; three others agree that the seventh number is also 6.

Which of the numbers is most likely the telephone number of the pizzeria?

A 995-9266

B 995-9336

C 995-9268

D 995-8266

E None of the above

Correct Answer A

Marks 1

56

Question Description

Read the following information carefully and answer the questions given thereof:

In a certain code language

'this is not me' is written as 'ar rt st pt'

'not you but him' is written as 'mn we rt qs'

'me and you come' is written as 'yu mn pt xr'

'but this is him' is written as 'ar we st qs'

What is the code for 'me' according to the given code language?

A

gs

B

mn

C

rt

D

pt

E

None of the above

Correct Answer

D

Marks

1

57

Question Description

Each of the following questions contains a small paragraph followed by a question on it. Read each paragraph carefully and answer the question given below it.

he only true education comes through the stimulation of the child's powers by the demands of the social situations in which he finds himself. Through these demands he is stimulated to act as a member of a unity, to emerge from his original narrowness of action and feeling, and to conceive himself from the standpoint of the welfare of the group to which he belongs.

The passage best supports the statement that real education -

A

will take place if the children imbibe action and feeling.

B

will take place if the children are physically strong.

C

is not provided in our schools today.

D

comes through the interaction with social situations.

E

None of the above

Correct Answer

D

Marks

1

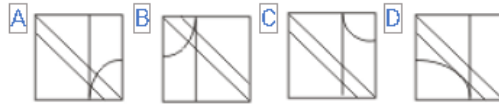
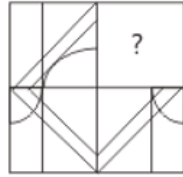
58

Question Description	How many such pair(s) of letters are there in the word 'POCKETBOOK' which have as many letters between them as in the alphabetical series as we move from left to right?
A	One
B	Two
C	Three
D	Four
E	None of the above
Correct Answer	B
Marks	1

59

Question Description

Which Answer Figure will complete the pattern in the figure?



A A

B B

C C

D D

E None of the above

Correct Answer D

Marks 1

60

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.

The school principal has received complaints from parents about bullying in the school yard during recess. He wants to investigate and end this situation as soon as possible, so he has asked the recess aides to watch closely. Which situation should the recess aides report to the principal?

A

A girl is sitting glumly on a bench reading a book and not interacting with her peers.

B

Four girls are surrounding another girl and seem to have possession of her backpack.

C

Two boys are playing a one-on-one game of basketball and are arguing over the last basket scored.

D

Three boys are huddled over a handheld video game, which isn't supposed to be on school grounds.

E

None of the above

Correct Answer**B****Marks****1**

61

Question Description

Directions: Read the given information carefully and answer the questions given beside:

Ten persons namely Pravin, Queen, Raman, Seetha, Tushar, Umesh, Vinoth, Wahab, Ximon and Yousuf are sitting in two parallel rows containing five people each in such a way that there is an equal distance between adjacent persons. People sitting in Row-1 facing north direction while people sitting in Row-2 facing south direction. Therefore people sitting in Row-1 face the people sitting in Row-2. They were born in following months among January, March, April, May, June, July and August. Exactly two persons were born in each of the month of April, May and June. All the above information is not necessarily in the same order.

Seetha sits exactly in the middle of the north facing row. Tushar sits with Ximon and Wahab and opposite to Umesh. Pravin sits at the extreme right end of the south facing row. Only one person sits between the two persons who were born in April. Queen sits opposite to Raman and to the immediate right of the person, who was born in May month. Raman doesn't face south direction. Wahab was born in August month. The person who was born in March sits to the immediate right of Yousuf and opposite to the person who is born in April. The person born in January sits to the right of the person born in July but they don't sit at any of the ends. Only one person sits between the two persons who were born in May.

Which of the following in pairs are born in same month?

A Yousuf and Vinoth

B Pravin and Queen

C Raman and Tushar

D Both A and B

E None of the above

Correct Answer A

Marks 1

62

Question Description

The words in the bottom row are related in the same way as the words in the top row. For each item, find the word that completes the bottom row of words.

rule command dictate

doze sleep ?

A

snore

B

govern

C

awaken

D

hibernate

E

None of the above

Correct Answer

D

Marks

1

63

Question Description

Directions: In this set of questions a narration is given. You have to take the given statements 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.

As Diwali festival is approaching Vikrant goes to his father with a view to convince him for buying crackers for Vikrant. He says, "Dad! My friend Rahul likes crackers very much."

His father replies, "Son, all crackers are harmful and all the harmful things make this world a worse place to live in."

He continued, "Even sweets are harmful."

"But Dad, Rahul is an intelligent boy." argues Vikrant.

His father replies, "I do acknowledge too that Rahul is an intelligent boy, but alas! Some intelligent boys are not wise."

With a dejected face, Rahul leaves for his tuition classes.

Which of the following conclusions doesn't follow?

A

All intelligent boys being Rahul is a possibility

B

Rahul may not be wise

C

Everything that makes this world a worse place to live in is harmful.

D

Some crackers are liked by Rahul.

E

None of the above

Correct Answer

C

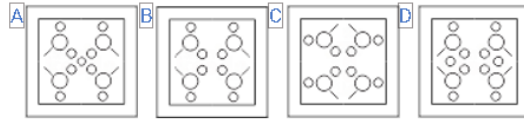
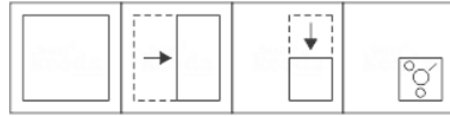
Marks

1

64

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

Read the below passage carefully and answer the questions:

Quinn: Our state is considering raising the age at which a person can get a driver's license to eighteen. This is unfair because the age has been sixteen for many years and sixteen-year-olds today are no less responsible than their parents and grandparents were at sixteen. Many young people today who are fourteen and fifteen years old are preparing to receive their licenses by driving with a learner's permit and a licensed driver, usually one of their parents. It would not be fair to suddenly say they have to wait two more years.

Dakota: It is true that people have been allowed to receive a drivers license at sixteen for generations. However, in recent years, the increase in traffic means drivers face more dangers than ever and must be ready to respond to a variety of situations. The fact that schools can no longer afford to teach drivers education results in too many young drivers who are not prepared to face the traffic conditions of today.

What is the point at issue between Quinn and Dakota?

- A** whether sixteen-year-olds should be required to take drivers education before being issued a license
- B** whether schools ought to provide drivers education to fourteen- and fifteen-year-old students
- C** whether the standards for issuing drivers licenses should become more stringent
- D** whether sixteen-year-olds are prepared to drive in today's traffic conditions
- E** None of the above

Correct Answer

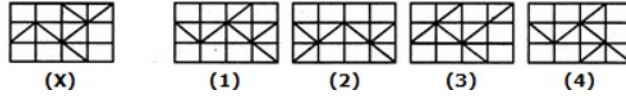
D

Marks

1

Question Description

Choose the correct water image of the given figure (X) from amongst the four alternatives

**A**

1

B

2

C

3

D

4

E

None of the above

Correct Answer

D

Marks

1

67

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.

DBU : EEZ :: CJH : ?

A

DMM

B

DNN

C

DMN

D

DNM

E

None of the above

Correct Answer

A

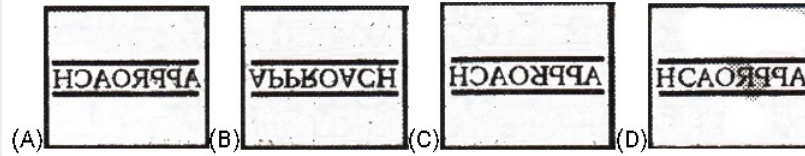
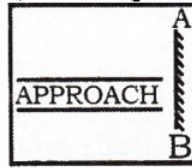
Marks

1

Question Description

Which of the given answer figures will be the correct image of the question figure it will be water image or mirror image?

Question Figure



A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

A

Marks

1

69

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 giv pair . Choose the correct word from the following options.

Equine : Horse :: Vulpine : ?

A

Dog

B

Cat

C

Wolf

D

Eagle

E

None of the above

Correct Answer

C

Marks

1

70

Question Description

Select the missing number from the given alternatives:

28	5	2	46
35	8	5	?
22	?	7	112

A 135, 6

B 126,4

C 124,8

D 135,5

E None of the above

Correct Answer A

Marks 1

71

Question Description

Choose the statement that is best supported by the information given

If you're a fitness walker, there is no need for a commute to a health club. Your neighborhood can be your health club. You don't need a lot of fancy equipment to get a good workout either. All you need is a well-designed pair of athletic shoes.

This paragraph best supports the statement that

A

fitness walking is a better form of exercise than weight lifting.

B

a membership in a health club is a poor investment.

C

walking outdoors provides a better workout than walking indoors.

D

fitness walking is a convenient and valuable form of exercise.

E

None of the above

Correct Answer

D

Marks

1

72

Question Description	A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?
A	12 days
B	15 days
C	16 days
D	18 days
E	None of the above
Correct Answer	B
Marks	1

73

Question Description	4, 20, 120, 840, ?, 6720 . Identify the number on the place of ‘?’
A	5880
B	5040
C	6720
D	7560
E	None of the above
Correct Answer	C
Marks	1

74

Question Description

Here are some words translated from an artificial language. You need to translate an English word into the artificial language.

godabim means kidney stones

romzbim means kidney beans

romzbako means wax beans

Which word could mean "wax statue"?

A

godaromz

B

lazbim

C

wasibako

D

romzpeo

E

None of the above

Correct Answer

C

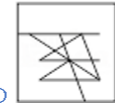
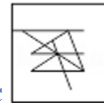
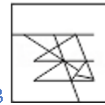
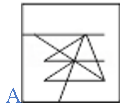
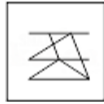
Marks

1

75

Question Description

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



A

B

C

D

A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

D

Marks

1