

Computer Based Examination System

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Title *	Question Paper Answer Key
OES Exam *	GPSC12202219 / Assistant Professors in Government College in Zoology/ Completed / 2023-04-01

1	Question Description	World Water Day is observed on
	A	5 th June
	B	20 th July
	C	22 nd April
	D	22 nd March
	E	None of the above
	Correct Answer	D
	Marks	1

2	Question Description	Sea levels are now rising at a rate of ---per year.
	A	3.7 mm
	B	3.7 cm
	C	2.7mm
	D	2.7 cm
	E	None of the above
	Correct Answer	A
	Marks	1

3	Question Description	In Lowry's method of protein estimation, which group of amino acids participates in chelation with copper ions?
	A	Aliphatic amino acids
	B	Aromatic Amino acids
	C	Non-polar amino acids
	D	Polar amino acids
	E	None of the above
	Correct Answer	B
	Marks	1

4	Question Description	Holothuroidea is actually a
	A	Hagfish
	B	Shark
	C	Sea cucumber
	D	Jellyfish
	E	None of the above
	Correct Answer	C
	Marks	1

5	Question Description	In a condition of heart blockage, what is been used to increase the size of blood vessel for decreasing the arterial pressure?
	A	Sphygmomanometer
	B	Transducer
	C	Vasoconstrictors
	D	Vasodilators
	E	None of the above
	Correct Answer	D
	Marks	1

6	Question Description	A trout hatchery produces 25-cm rainbow trouts. The water temperature is 12°C and the fish diet contains 42% protein. Environmental regulation requires that the hatchery discharge must not exceed 2.0mg/L TAN. What is the maximum loading rate for this hatchery?
	A	10.84 kg/L/min
	B	108.40 kg/L/min
	C	10.84 kg/min
	D	84 L/min
	E	None of the above
	Correct Answer	A
	Marks	1

7	Question Description	Moeritherium is the ancestor of the modern day
	A	Horses
	B	Hippopotamus
	C	African Lions
	D	Elephants
	E	None of the above
	Correct Answer	D
	Marks	1

8

Question Description	Honey bees used for bee-keeping are known as
A	<i>Apis indica</i>
B	<i>Alces alces</i>
C	<i>Azadiracta indica</i>
D	<i>Adenium</i>
E	None of the above
Correct Answer	A
Marks	1

9

Question Description	One gene one enzyme hypothesis was put forward by
A	James Watson
B	Beadle and Tatum
C	Hargovind Khurana
D	Francis Crick
E	None of the above
Correct Answer	B
Marks	1

10	Question Description	<i>CRISPR-Cas9</i> is a
	A	Genome editing tool
	B	Video editing tool
	C	Apoptotic tool
	D	Necrotic tool
	E	None of the above
	Correct Answer	A
	Marks	1

11	Question Description	Manatees are
	A	Reptiles
	B	Birds
	C	Mammals
	D	Fishes
	E	None of the above
	Correct Answer	C
	Marks	1

12	Question Description	You are instructed to fertilize a 10.5 Ha pond with super phosphate at a rate of 50 kg/Ha P ₂ O ₅ . How much do you need?
	A	1200 kg
	B	2000 kg
	C	6200 kg
	D	2625 kg
	E	None of the above
	Correct Answer	D
	Marks	1

13	Question Description	Consider bacteria composed of 50% C and 10% N with a carbon assimilation efficiency of 7%. If these bacteria decompose 100kg of straw that contains 40% C and 0.1% N, how much nitrogen will be mineralized into or immobilized from the pond mud?
	A	0.88 kg
	B	3.0 kg
	C	1.0 kg
	D	0.46 kg
	E	None of the above
	Correct Answer	D
	Marks	1

14	Question Description	What is the blood group of the person, if agglutination was seen upon adding anti-B sera and anti-D sera (anti-Rh sera) to the blood, but no agglutination was seen upon adding anti-A sera?
	A	A+
	B	B+
	C	A-
	D	B-
	E	None of the above
	Correct Answer	B
	Marks	1

15	Question Description	The starting sample to be amplified in a PCR is DNA, whereas in RT-PCR it is
	A	RNA
	B	Carbohydrate
	C	Protein
	D	SS DNA
	E	None of the above
	Correct Answer	A
	Marks	1

16	Question Description	Sea cucumber is an
	A	Echinoderm
	B	Fish
	C	Plant
	D	Kelp
	E	None of the above
	Correct Answer	A
	Marks	1

17	Question Description	The full form of IPCC is
	A	International Project of Climate Change
	B	Intergovernmental Panel on Climate Change
	C	Inter-Pol of Criminal Charges
	D	International Panel on Climate Calamity
	E	None of the above
	Correct Answer	B
	Marks	1

18

Question Description	Forest fires are good for ---- tree sprouting
A	Mango
B	Jackfruit
C	Pine
D	Palm
E	None of the above
Correct Answer	C
Marks	1

19

Question Description	The documentary “Elephant Whisperers” was shot in
A	Karnataka
B	Kerala
C	Andhra Pradesh
D	Tamil Nadu
E	None of the above
Correct Answer	D
Marks	1

20

Question Description	Both Coronavirus and Influenza virus has one thing in common. They both are
A	RNA viruses
B	DNA viruses
C	Mycoplasma
D	Bacteriophages
E	None of the above
Correct Answer	A
Marks	1

21	Question Description	Pineapple juice is used in DNA extraction experiment because it has
	A	Proteases
	B	Amylases
	C	Oxidases
	D	Ribonucleases
	E	None of the above
	Correct Answer	A
	Marks	1

22	Question Description	Calculate the solubilities of DO and CO ₂ in a 29°C catfish pond at 200m above sea level.
	A	74 mg/L and 4.7 mg/L
	B	7.04 mg/L and 0.47 mg/L
	C	7.04 mg/L and 74 mg/L
	D	700 mg/L and 0.47 mg/L
	E	None of the above
	Correct Answer	B
	Marks	1

23	Question Description	A warming of the ocean surface, or above-average sea surface temperatures, in the central and eastern tropical Pacific Ocean is known as
	A	El Nino
	B	Albedo
	C	Greenhouse
	D	Doldrums
	E	None of the above
	Correct Answer	A
	Marks	1

24	Question Description	A shape-shifting flock of thousands of starlings is called
	A	Murmuration
	B	Flocking
	C	Migration
	D	Hibernation
	E	None of the above
	Correct Answer	A
	Marks	1

25

Question Description	What is the input sequence format in BLAST?
A	Gene Bank
B	EMBL
C	FASTA
D	PIR
E	None of the above
Correct Answer	C
Marks	1

26

Question Description	Tyrosinase enzyme is present in?
A	Plant
B	Fungi
C	Mammal
D	All of them
E	None of the above
Correct Answer	D
Marks	1

27	Question Description	Prawns and butterflies fall in the same phylum because both have
	A	Bilateral symmetry
	B	Jointed legs
	C	Antennae
	D	Segmented body
	E	None of the above
	Correct Answer	B
	Marks	1

28	Question Description	How many nucleotide pairs are present in one complete turn of the helical structure?
	A	Near 10
	B	Near 8
	C	Near 12
	D	Near 15
	E	None of the above
	Correct Answer	A
	Marks	1

29	Question Description	Duchenne muscular dystrophy (DMD) is a genetic disorder characterized by progressive muscle degeneration and weakness due to the alterations of a protein called ---- that helps keep muscle cells intact
	A	D-protein
	B	dystrophin
	C	dystopin
	D	dementia
	E	None of the above
	Correct Answer	B
	Marks	1

30	Question Description	When heart muscles become damaged ---- is found in the blood
	A	Myoglobin
	B	Troponin
	C	Haemoglobin
	D	Tubulin
	E	None of the above
	Correct Answer	B
	Marks	1

31	Question Description	An example of a bony fish is
	A	Shrimp
	B	Shark
	C	Rohu
	D	Whale
	E	None of the above
	Correct Answer	C
	Marks	1

32	Question Description	Which of the following is FALSE for diastolic pressure:
	A	It is the minimum pressure exerted by blood in the arteries
	B	It is measured at the beginning of cardiac cycle
	C	It is the pressure exerted on ventricles
	D	None of the given statements are false
	E	None of the above
	Correct Answer	C
	Marks	1

33	Question Description	Choose the correct symbol for Phenylalanine:
	A	B
	B	F
	C	C
	D	E
	E	None of the above
	Correct Answer	B
	Marks	1

34	Question Description	-----is the use of very low temperatures to preserve the cells and tissues that are structurally intact
	A	Freezing
	B	Vernalization
	C	Precipitation
	D	Cryopreservation
	E	None of the above
	Correct Answer	D
	Marks	1

35	Question Description	Neural Crest Cells are
	A	Migratory
	B	Multipotent
	C	Epidermal
	D	All
	E	None of the above
	Correct Answer	D
	Marks	1

36	Question Description	The lowest chromosome number described in a mammal is found in the
	A	Squirrel
	B	Indian red Panda
	C	Buffalo
	D	Indian muntjac
	E	None of the above
	Correct Answer	D
	Marks	1

37	Question Description	The edible marine fishes are
	A	Rohu, Catla and Hilsa
	B	Hilsa, Pomfret and Mackerel
	C	Hilsa, Common Carp and Mackerel
	D	Rohu, Catla and Common Carp
	E	None of the above
	Correct Answer	B
	Marks	1

38	Question Description	The Nilgiri Tahr is a
	A	Deer
	B	Endangered species
	C	Endemic species
	D	Vulnerable species
	E	None of the above
	Correct Answer	B
	Marks	1

39	Question Description	In cats, long hair is recessive to short hair. A true-breeding (homozygous) short-haired male is mated to a long-haired female. What will their kittens look like?
	A	All short haired
	B	All long haired
	C	short haired: long haired =3:1
	D	short haired: medium haired: long haired =1:2:1
	E	None of the above
	Correct Answer	A
	Marks	1

40	Question Description	An example of a jawless vertebrate is
	A	Sponge
	B	Lamprey
	C	Eel
	D	Ray
	E	None of the above
	Correct Answer	B
	Marks	1

41	Question Description	If a person has A+ blood group, who all can donate blood to him?
	A	A+; A-; O+; O-
	B	A+; A-; AB+; AB-
	C	A+; A-; O+; AB+
	D	A+; A-; B+; B-
	E	None of the above
	Correct Answer	A
	Marks	1

42	Question Description	In mitotically active cell population, DNA replication happens in _____ phase.
	A	Prophase
	B	Metaphase
	C	Interphase
	D	Anaphase
	E	None of the above
	Correct Answer	C
	Marks	1

43	Question Description	What is the pH of a solution that contains 100 mg/L HCO_3^- and 0.5 mg/L CO_2
	A	8.51
	B	9.51
	C	6.51
	D	7.51
	E	None of the above
	Correct Answer	A
	Marks	1
44	Question Description	Calculate the solubilities of DO and CO_2 in a 28°C shrimp pond at sea level with a salinity of 17% .
	A	6.65 mg/L and 0.48 mg/L
	B	6.22 mg/L and 4.8 mg/L
	C	9.62 mg/L and 0.48 mg/L
	D	9.65 mg/L and 0.44 mg/L
	E	None of the above
	Correct Answer	A
	Marks	1

45	Question Description	Complete media with FBS is an example of
	A	LB media
	B	MS media
	C	Defined media
	D	Undefined media
	E	None of the above
	Correct Answer	D
	Marks	1

46	Question Description	Which one is the characteristic of a reducing sugar?
	A	Free aldehyde group
	B	Free keto group
	C	2 aldehyde group
	D	No aldehyde or keto group
	E	None of the above
	Correct Answer	A
	Marks	1

47	Question Description	The study of how the body interacts with administered substances for the entire duration of exposure
	A	Pharmacokinetics
	B	Pharmaceuticals
	C	Drug delivery
	D	Clinical trials
	E	None of the above
	Correct Answer	A
	Marks	1

48	Question Description	A hatchery circulates 10,000L/min of reused water, heated to 12°C to produce 20,000 kg of 20-cm lake trout. The water supply is a lake with a pH of 7.2 at an elevation of 200m above sea level. If no biofilters are used, how much new water must be continuously heated and added to the recirculating flow?
	A	900 L/min
	B	10 L/min
	C	100 L/min
	D	903 L/min
	E	None of the above
	Correct Answer	D
	Marks	1

49	Question Description	The folding process in vertebrate embryos, which includes the transformation of the neural plate into the neural tube
	A	Cleavage
	B	Gastrulation
	C	Neurulation
	D	Gestation
	E	None of the above
	Correct Answer	C
	Marks	1

50	Question Description	<i>Neural</i> cell adhesion molecule (<i>NCAM</i>), also called CD56, is a homophilic binding glycoprotein expressed <i>on</i> the surface of
	A	Neurons and glia
	B	Skeletal muscle
	C	Glia and skeletal muscle
	D	neurons, glia and skeletal muscle
	E	None of the above
	Correct Answer	D
	Marks	1

51

Comprehension

Read the passage and answer the questions below:

We can break mountains apart; we can drain the rivers and flood the valleys. We can turn the most luxurious forests into throwaway paper products. We can tear apart the great grass cover of the western plains and pour toxic chemicals into the soil and pesticides onto the fields until the soil is dead and blown away in the wind. We can pollute air with acids, rivers with sewage, the sea with oil—all this with an intoxication with our power for devastation at an order of magnitude beyond all reckoning. We can invent computers capable of processing ten million calculations per second. And why? To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap.

Question Description

Identify a word or phrase from the options given below which implies “being overcome with”

A

reckoning

B

magnitude

C

intoxication

D

luxurious

E

None of the above

Correct Answer

C

Marks

1

52

Comprehension

Read the passage and answer the questions below:

We can break mountains apart; we can drain the rivers and flood the valleys. We can turn the most luxurious forests into throwaway paper products. We can tear apart the great grass cover of the western plains and pour toxic chemicals into the soil and pesticides onto the fields until the soil is dead and blown away in the wind. We can pollute air with acids, rivers with sewage, the sea with oil—all this with an intoxication with our power for devastation at an order of magnitude beyond all reckoning. We can invent computers capable of processing ten million calculations per second. And why? To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap.

Question Description

Identify from the options provided below, the expression used to convey the damage directly caused to nature and environment

A

devastation

B

waste heap

C

beyond all reckoning

D

junk pile

E

None of the above

Correct Answer

A

Marks

1

Comprehension

Read the passage and answer the questions below:

We can break mountains apart; we can drain the rivers and flood the valleys. We can turn the most luxurious forests into throwaway paper products. We can tear apart the great grass cover of the western plains and pour toxic chemicals into the soil and pesticides onto the fields until the soil is dead and blown away in the wind. We can pollute air with acids, rivers with sewage, the sea with oil—all this with an intoxication with our power for devastation at an order of magnitude beyond all reckoning. We can invent computers capable of processing ten million calculations per second. And why? To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap.

Question Description

“To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap”. This statement is an indictment of

A

superfast computers

B

insensitive consumerism

C

natural resources

D

junk pile or waste heap

E

None of the above

Correct Answer

B

Marks

1

54

Comprehension

Read the passage and answer the questions below:

We can break mountains apart; we can drain the rivers and flood the valleys. We can turn the most luxurious forests into throwaway paper products. We can tear apart the great grass cover of the western plains and pour toxic chemicals into the soil and pesticides onto the fields until the soil is dead and blown away in the wind. We can pollute air with acids, rivers with sewage, the sea with oil—all this with an intoxication with our power for devastation at an order of magnitude beyond all reckoning. We can invent computers capable of processing ten million calculations per second. And why? To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap.

Question Description

From the phrases listed below, select the one which is used in the passage in a non-destructive sense by itself

A

drain the rivers

B

break mountains

C

invent computers

D

flood the valleys

E

None of the above

Correct Answer

C

Marks

1

55

Comprehension

Read the passage and answer the questions below:

We can break mountains apart; we can drain the rivers and flood the valleys. We can turn the most luxurious forests into throwaway paper products. We can tear apart the great grass cover of the western plains and pour toxic chemicals into the soil and pesticides onto the fields until the soil is dead and blown away in the wind. We can pollute air with acids, rivers with sewage, the sea with oil—all this with an intoxication with our power for devastation at an order of magnitude beyond all reckoning. We can invent computers capable of processing ten million calculations per second. And why? To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap.

Question Description

Identify from the options given below, the one that indicates “harmful substances, used to protect food crops from destruction”

A

toxic chemicals

B

pesticides

C

sewage

D

acids

E

None of the above

Correct Answer

B

Marks

1

56	Question Description	How many Lok Sabha seats belong to Rajasthan?
	A	32
	B	25
	C	30
	D	17
	E	None of the above
	Correct Answer	B
	Marks	1

57	Question Description	Ms. Medha Patkar is closely associated with the
	A	Tehri project
	B	Enron project
	C	Sardar Sarovar project
	D	Dabhol project
	E	None of the above
	Correct Answer	C
	Marks	1

58

Question Description	What is the country of origin for ULTRASAT, the first telescope mission?
A	Iran
B	Iraq
C	Israel
D	India
E	None of the above
Correct Answer	C
Marks	1

59

Question Description	Where is India's first Geological Park going to be built?
A	Bhopal
B	Shivpuri
C	Sagar
D	Jabalpur
E	None of the above
Correct Answer	D
Marks	1

60

Question Description	Which countries lead the International Biofuels Alliance?
A	India, Brazil, and the United States
B	India, Germany, and France
C	Brazil, UAE, Nepal
D	USA, Bhutan, India
E	None of the above
Correct Answer	A
Marks	1

61

Question Description	On which state highway was the world's first bamboo crash barrier installed?
A	Rajasthan
B	Assam
C	Maharashtra
D	Gujarat
E	None of the above
Correct Answer	C
Marks	1

62	Question Description	Which state defeated Maharashtra to win the Senior Women's 13th National Hockey Championship 2023?
	A	Uttar Pradesh
	B	Madhya Pradesh
	C	Himachal Pradesh
	D	Arunachal Pradesh
	E	None of the above
	Correct Answer	B
	Marks	1

63	Question Description	On which date is World Anthropology Day observed every year?
	A	February 16
	B	February 12
	C	February 14
	D	February 10
	E	None of the above
	Correct Answer	A
	Marks	1

64	Question Description	When is World Unani Day observed every year?
	A	February 10
	B	February 11
	C	February 05
	D	February 08
	E	None of the above
	Correct Answer	B
	Marks	1

65	Question Description	With the help of ISRO, in which city of Bhutan was the ground station of the India-Bhutan satellite established?
	A	Paro
	B	Punakha
	C	Thimphu
	D	Jakar
	E	None of the above
	Correct Answer	C
	Marks	1

66

Question Description

Find missing numbers?

36	6	9	15
88	11	9	?
120	?	6	18

A

54,41

B

17,82

C

17,10

D

96,13

E

None of the above

Correct Answer

C

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 part is given on another side of '::<' while another part is to be found from the given options, having the same relation with this part as the parts of the given pair . Choose the correct part from the following options.

91 : ? :: 64 : 54

A

63

B

101

C

32

D

70

E

None of the above

Correct Answer

A

Marks

1

68

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..

SHI : RIJ :: QJK : ?

A

TDE

B

PKL

C

UGH

D

VPQ

E

None of the above

Correct Answer

B

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

pongee : Silk : : Shallot : ?

A

Boat

B

Building

C

Ship

D

Stream

E

None of the above

Correct Answer

A

Marks

1

70

Question Description

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

G is the mother of F, who is the spouse of D. M is the daughter of D, who is the only brother of C. E is the son of G, who is married to H. A is the niece of C, who has no sister and is unmarried. T is the father of D and has no daughter. V is the sister-in-law of F. G has only two children. M is the granddaughter of O.

How is F's mother-in-law related to T?

A

Sister

B

Father

C

Wife

D

Brother

E

None of the above

Correct Answer

C

Marks

1

71

Question Description

Directions : Each of the following consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

A teacher wrote a meaningful English word on the black-board. Find the exactly middle letter of the 5 letter word?

Statement I : The first and last letter of the word is 'E'. The second and fourth letters of the word are consecutive letters in English alphabet series. R is adjacent to A.

Statement II : The first and last vowel is same. Only one letter is placed between A and E. S is written after R. The vowels are placed at odd numbered positions.

A

If the data in statement I is sufficient to answer the question

B

If the data in statement II is sufficient to answer the question.

C

If the data in either statement I or statement II is sufficient to answer the question.

D

If the data in both statement I and statement II is necessary to answer the question.

E

None of the above

Correct Answer**C****Marks****1**

72

Question Description

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

In a certain code language “hunger and poverty remain” is coded as “ner gup jil mub”, “people count poverty records” is coded as “abc gup xyz def” , “count remain unchanged records” is coded as “buf ner def xyz”, “people and poverty rate” is coded as “abc mub for gup”.

What is the code for "poverty unchanged"?

A

buf jil

B

buf ner

C

ner gup

D

gup buf

E

None of the above

Correct Answer

D

Marks

1

73

Question Description

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

In a city, SRK Mall was to the north-west of Cosmos Mall. Shanti Mall was in the east of SRK Mall which was towards the south of TDI Mall. Saket Mall was towards the south-west of Shanti Mall such that it was situated towards the east of Cosmos Mall. DB Mall was 20 km towards the north of Cosmos Mall, which was 4 times the distance between Cosmos Mall and Saket Mall. Rajan Mall was the mid point between SRK Mall and Shanti Mall and also Cosmos Mall and DB Mall. The distance between TDI Mall and SRK Mall was half of the distance between DB Mall and Rajan Mall.

If the straight distance between the SRK Mall and the Shanti Mall is 14 km, what total distance one needs to cover if one travels from SRK Mall to Saket Mall via Rajan Mall and Cosmos Mall?

A	16km
B	20km
C	21km
D	22km
E	None of the above
Correct Answer	D
Marks	1

74

Question Description

Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.
DELTOID : MUSCLE

A

radius : bone

B

brain : nerve

C

tissue : organ

D

blood : vein

E

None of the above

Correct Answer

A

Marks

1

75

Question Description**Directions: Read the following information carefully and answer the questions given beside.**

Certain number of persons (that does not exceed 15) are standing in a straight linear row facing towards the north. 5 persons stand between B and E, who is third to the left of A. U is to the right of A. Not more than 3 persons stand between U and T. B is third to the left of U. I is fifth to the right of T. 2 persons stand between E and F, who is sitting at the extreme left end of the row.. Three persons stand between A and L, who is towards the right of E.

What is the position of E with respect to L?**A** 4th to the left**B** 7th to the left**C** 6th to the right**D** 5th to the left**E** None of the above**Correct Answer** B**Marks** 1