

Computer Based Examination System

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Title *	Question Paper Answer Key
OES Exam *	BIOGPSC04202304 / Assistant District Educational Inspectors/ Teacher Grade -I(BIOLOGY)/ Completed / 2023-09-03

1	Question Description	There are -----types of cells in the human body
	A	100
	B	50
	C	20
	D	200
	E	None of the above
	Correct Answer	D
	Marks	1

2

Question Description	Key link between humoral and cell – mediated immunity are:
A	monocytes
B	T cytotoxic cells
C	B cells
D	T helper cells
E	None of the above
Correct Answer	D
Marks	1

3

Question Description	Immediately after ovulation the mammalian egg is covered by a membrane known as
A	Zona pellucida
B	corona radiata
C	chorion
D	vitelline membrane
E	None of the above
Correct Answer	B
Marks	1

4

Question Description	Hair follicle stem cells resides in the
A	Bulge
B	Root
C	Dermal Papillae
D	Sheath
E	None of the above
Correct Answer	A
Marks	1

5

Question Description	The length of one turn of DNA is
A	3.4 Å
B	34 Å
C	3.04 Å
D	20 Å
E	None of the above
Correct Answer	A
Marks	1

6	Question Description	The function of the hypothalamus is related to:
	A	Circadian rhythm
	B	Memory
	C	Motor area
	D	LH hormone
	E	None of the above
	Correct Answer	D
	Marks	1

7	Question Description	In a DNA double helix, a purine binds a pyrimidine by a
	A	Hydrogen bond
	B	covalent bond
	C	keto bond
	D	oxygen bond
	E	None of the above
	Correct Answer	A
	Marks	1

8	Question Description	Early infection of body can be detected by the presence of a high quantity of :
	A	IgG
	B	IgD
	C	IgM
	D	IgE
	E	None of the above
	Correct Answer	C
	Marks	1

9	Question Description	Classification that considers several characters of ancestors is
	A	Phylogenetic
	B	Artificial
	C	Natural
	D	Phyllotaxy
	E	None of the above
	Correct Answer	A
	Marks	1

10	Question Description	Triple fusion occurring in embryo sac results in the formation of
	A	diploid PEN
	B	triploid PEN
	C	diploid zygote
	D	polypoid zygote
	E	None of the above
	Correct Answer	B
	Marks	1

11	Question Description	Brush bordered epithelium is found in:
	A	fallopian tube
	B	small intestine
	C	stomach
	D	trachaea
	E	None of the above
	Correct Answer	B
	Marks	1

12	Question Description	AB blood type contains:
	A	Antigen A and B
	B	Antibody A and B
	C	Only antigen A
	D	Only B antibody
	E	None of the above
	Correct Answer	A
	Marks	1

13	Question Description	DPT vaccine is used for the immunization of
	A	Bubonic plague
	B	Cholera
	C	whooping cough
	D	Typhoid fever
	E	None of the above
	Correct Answer	C
	Marks	1

14	Question Description	Conversion of α - ketoglutaric acid into succinic acid is a step of:
	A	EMP pathway
	B	HMP pathway
	C	TCA cycle
	D	ED pathway
	E	None of the above
	Correct Answer	C
	Marks	1

15	Question Description	The two strands of a DNA double helix is joined by
	A	Hydrogen bonds
	B	Covalent bond
	C	Ionic bond
	D	Phosphodiester bond
	E	None of the above
	Correct Answer	A
	Marks	1

16	Question Description	Kranz anatomy is one of the characteristics of the leaves of :
	A	sugarcane
	B	mustard
	C	potato
	D	wheat
	E	None of the above
	Correct Answer	A
	Marks	1

17	Question Description	The hippocampus is responsible for:
	A	Circadian rhythm
	B	Memory
	C	Motor area
	D	LH hormone
	E	None of the above
	Correct Answer	B
	Marks	1

18	Question Description	Paramecium is observed to have:
	A	Food vacuole
	B	Contracting vacuole
	C	Both Food vacuole and Contracting vacuole
	D	Flagella
	E	None of the above
	Correct Answer	C
	Marks	1

19	Question Description	Testosterone producing cells are called:
	A	Sperm cells
	B	Leydig cells
	C	Somatic cells
	D	Both Band C
	E	None of the above
	Correct Answer	B
	Marks	1

20	Question Description	Which of the following domain was not suggested by Woese?
	A	Bacteria
	B	Archaea
	C	Animalia
	D	Eukarya
	E	None of the above
	Correct Answer	C
	Marks	1

21	Question Description	Carl Woese found that the six kingdoms naturally cluster into three main domains on the basis of the sequence of
	A	28S rRNA
	B	23S rRNA
	C	5.8S rRNA
	D	16S rRNA
	E	None of the above
	Correct Answer	D
	Marks	1

22	Question Description	The largest WBCs in mammalian blood are :
	A	basophils
	B	erythrocytes
	C	monocytes
	D	lymphocytes
	E	None of the above
	Correct Answer	C
	Marks	1

23	Question Description	The four-membered ring structure, present in haemoglobin molecule is known as
	A	Globin
	B	Heme
	C	Porphyrin
	D	Hematin
	E	None of the above
	Correct Answer	C
	Marks	1

24	Question Description	The intercalating dye ethidium bromide binds to
	A	Deoxyribose
	B	Nitrogenase bases
	C	Histones
	D	Proteins
	E	None of the above
	Correct Answer	B
	Marks	1

25	Question Description	During microsporogenesis, meiosis occurs in which of the following cells?
	A	endothecium
	B	microspore tetrads
	C	microspore mother cells
	D	pollen grains
	E	None of the above
	Correct Answer	C
	Marks	1

26	Question Description	If someone's blood contains A agglutinin and anti B agglutinin what will be the blood group?
	A	A
	B	B
	C	AB
	D	O
	E	None of the above
	Correct Answer	A
	Marks	1

27	Question Description	A fruit without seeds is not possible in case of :
	A	grapes
	B	pomegranates
	C	orange
	D	lemon
	E	None of the above
	Correct Answer	B
	Marks	1

28

Question Description	Natural killer cells (NK) can destroy
A	invading microorganisms
B	virus infected cells
C	some tumor cells
D	all of these
E	None of the above
Correct Answer	D
Marks	1

29

Question Description	----- calculates the extent to which the values differ from the average
A	Standard deviation
B	Mean
C	Median
D	Mode
E	None of the above
Correct Answer	A
Marks	1

30

Question Description	The molecular weight of haemoglobin is approximately
A	78000 Da
B	56000 Da
C	65000 Da
D	87000 Da
E	None of the above
Correct Answer	C
Marks	1

31

Question Description

Match the following:

List I (Types of Rubrics)

List II (Advantages)

A. Holistic

1. More reliable assessment of performance on the task.

B. Analytic

2. Can use same rubric across different tasks.

C. Task specific

3. Give more detailed feedback.

D. General

4. Quik scoring provides an overview of student's achievement.

Codes:

	A	B	C	D
(a).	2	4	1	3
(b).	3	4	1	2
(c).	2	3	1	4
(d).	4	3	1	2

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

D

Marks

1

32

Question Description

Given below are two statements:

Statement I: Photographs, graphs, films and other art works clarify and enhance the visual value of the written messages much.

Statement II: Bar graphs, pie charts and other infographic devices cannot replace the mass of numbers in print.

In light of the above statements, choose the correct answer from the options given below:

A

Both Statement I and Statement II are true.

B

Both Statement I and Statement II are false.

C

Statement I is true but Statement II is false.

D

Statement I is false but Statement II is true.

E

None of the above

Correct Answer

C

Marks

1

33

Question Description

Match the Article with the Subject and select the correct answer using the codes given below columns.

Article	Subject
P) Article 29 (1)	i) Right to information
Q) Article 19 (1)(A)	ii) Equality of opportunity in educational institutions
R) Article 239	iii) Free and compulsory education to all the children of age 6-14 years
S) Article 21 (A)	iv) Education in Union Territories comes under the responsibility of the Central government

Codes

	P	Q	R	S
A)	ii	i	iv	iii
B)	ii	iv	i	iii
C)	iv	iii	i	ii
D)	i	iii	iv	ii

A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

A

34	Question Description	An example of Intrinsic motivation is _____
	A	Participating in a quiz contest to win an award
	B	Learning a new skill out of interest
	C	Completing homework to avoid punishment
	D	Studying to get praise from parents
	E	None of the above
	Correct Answer	B
	Marks	1

35	Question Description	An upward shift in social class is _____
	A	Social class
	B	Upward social mobility
	C	Social customs
	D	Social mobility
	E	None of the above
	Correct Answer	B
	Marks	1

36

Question Description

Which of the following factors have been labeled as ' Social competences' in influencing learning?

(A). Socio-economic status.

(B). Motivation

(C). Intelligence- General and Specific.

(D). Emotional well- being.

(E). Inability to translate thoughts into action.

Choose the correct answer from the options given below:

A

A,B and C only.

B

B,C and D only.

C

A, B and D only.

D

C, D and E only

E

None of the above

Correct Answer

C

Marks

1

37	Question Description	In social stratification, Birth is the _____
	A	Social base
	B	Cultural base
	C	Biological base
	D	Individual base
	E	None of the above
	Correct Answer	C
	Marks	1

38	Question Description	The method of loci is a mnemonic device that involves
	A	Thinking of a set of words that rhyme with the words you have to memorize.
	B	Making a word out of the first letters of each term that you have to memorize.
	C	Mentally placing items to be remembered in some imaginary environment.
	D	Associating each of the words you have to memorize with a set of pre-memorized words.
	E	None of the above
	Correct Answer	C
	Marks	1

39

Question Description	In the process of communication 'Encoding' means
-----------------------------	--

A	using symbols to express an idea.
----------	-----------------------------------

B	deciphering a message.
----------	------------------------

C	creating noise in the communication.
----------	--------------------------------------

D	interpreting the meaning of the message.
----------	--

E	None of the above
----------	-------------------

Correct Answer	A
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Marks	1
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40

Question Description

Which of the following best describes the essential characteristics of continuous and comprehensive evaluation?

- i. Its main goal is to categorise and label children.
- ii. It offers teachers the chance to reflect on their pedagogy.
- iii. It includes assessment as a component of learning.
- iv. It helps to promote learning by inducing fear and anxiety.

A

i and ii

B

ii, iii, and iv

C

ii and iii

D

i , ii, iii, iv

E

None of the above

Correct Answer

C

Marks

1

41	Question Description	Culture is _____
	A	The characteristics and products of the learned behaviour of a group of people.
	B	The sum total of feelings of the people of a group.
	C	The totality of the inter-relationships of the people of a group.
	D	The totality of mutual understandings of the people of a group.
	E	None of the above
	Correct Answer	A
	Marks	1
42	Question Description	Factors contributing to plagiarism in schools today are _____
	A	The wide availability of information on the Web
	B	The pressure of high-stakes testing and the need to earn high scores on exams
	C	Student misunderstandings about using material without citing their sources.
	D	All of the above
	E	None of the above
	Correct Answer	D
	Marks	1

43	Question Description	The purpose of a Lesson Plan is _____
	A	To read the lesson plan before Teaching the lesson
	B	To prepare all that the teacher wants to teach in a limited period
	C	To prepare detailed answers of all the questions to be asked in the class
	D	To prepare the list of questions to be asked
	E	None of the above
	Correct Answer	B
	Marks	1

44	Question Description	The characteristics of emotionally disturbed children _____
	A	May exhibit distorted thinking
	B	Excessive anxiety
	C	Abnormal mood swings.
	D	All of the above
	E	None of the above
	Correct Answer	D
	Marks	1

45

Question Description

Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R). The codes are given below, choose the correct code.

Assertion (A) : Formative Evaluation measures teacher's progress.

Reasoning (R): Formative Evaluation is process linked and directed at raising motivation and engagement levels in learning.

Codes**A**

Both A and R are true and R is the correct explanation of A

B

Both A and R are true, but R is not the correct explanation of A

C

Both A and R are false

D

A is false, but R is true

E

None of the above

Correct Answer

D

Marks

1

46

Question Description	An identifying feature of creativity is _____
A	Conformity
B	Hypothetico-Deductive reasoning
C	Divergent Thinking
D	Convergent Thinking
E	None of the above
Correct Answer	C
Marks	1

47	Question Description	M.F. Husain was an Indian artist who became well-known for producing expressive, vividly coloured narrative paintings in a slightly modified Cubist manner. Which type of intellect does M. F. Husain exhibit, according to Howard Gardner's theory of multiple intelligences?
	A	Intrapersonal
	B	Visual-Spatial
	C	Bodily-Kinesthetic
	D	Naturalistic
	E	None of the above
	Correct Answer	B
	Marks	1
48	Question Description	According to advocates of online and blended education, one of the following is a primary advantage of virtual learning _____
	A	Virtual schools require students to pass tests with higher scores than students in regular schools.
	B	Virtual schools are more expensive to operate than regular schools.
	C	Virtual schools provide needed academic resources for home-schooled students.
	D	Virtual school students have more social interactions with peers than students in regular schools.
	E	None of the above
	Correct Answer	C
	Marks	1

49

Question Description	The main purpose of using ICT for classroom teaching is to:
-----------------------------	---

A	Make the classroom instructions interesting.
----------	--

B	Divert students' attention in the class.
----------	--

C	Keep students engaged in the class.
----------	-------------------------------------

D	Optimize learning outcomes of teaching.
----------	---

E	None of the above
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Correct Answer	D
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Marks	1
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50	<p>Question Description</p>	<p>Read the following statements.</p> <p>I. Selecting work to be put in portfolio on the basis of specific</p> <p>II. Selecting all items students work to be put in portfolios</p> <p>III. making the child select his/her work to be put in the portfolio</p> <p>IV. Collecting a range of students work over a period of time</p> <p>The good practice for making students portfolios is _____</p>
	A	I, II and III
	B	I and IV
	C	I, II and IV
	D	I, III and IV
	E	None of the above
	Correct Answer	D
	Marks	1
51	<p>Comprehension</p>	<p>Read the following passage and answer the questions given below: -</p> <p>Science can certainly contribute its bit towards the development of a culture or towards shaping of subjective reality. In the past, only the poets, the artists and the philosophers, particularly the poets, did this. Their languages have been metaphoric and symbolic. They demand interpretation and re-interpretation to get to the underlying meaning. In future too this would continue to be the dominant pattern of further development. Science may explode the myths about the moon, but poets will continue to create new myths and legends, and, the society its new images, new rituals and new taboos. In his book, Myths to Live By (1973), Joseph Campbell has argued this theme in detail. Playwright Ibsen and Psychologist Jung were of the opinion that human beings will always need life-supporting myths.</p>

Question Description	Myths and legends are significant because
A	speak through metaphors and symbols
B	thy are essential for human life
C	give rise to new images, rituals and taboos
D	science can explode them
E	None of the above
Correct Answer	B
Marks	1

Comprehension

Read the following passage and answer the questions given below: -

Science can certainly contribute its bit towards the development of a culture or towards shaping of subjective reality. In the past, only the poets, the artists and the philosophers, particularly the poets, did this. Their languages have been metaphoric and symbolic. They demand interpretation and re-interpretation to get to the underlying meaning. In future too this would continue to be the dominant pattern of further development. Science may explode the myths about the moon, but poets will continue to create new myths and legends, and, the society its new images, new rituals and new taboos. In his book, *Myths to Live By* (1973), Joseph Campbell has argued this theme in detail. Playwright Ibsen and Psychologist Jung were of the opinion that human beings will always need life-supporting myths.

Question Description

As per the passage myths are important to human life because

A

poets, artists and philosophers create them

B

they make use of metaphoric and symbolic language

C

they constitute the dominant pattern of developing subjective reality

D

they demand interpretation and re-interpretation

E

None of the above

Correct Answer

C

Marks

1

Comprehension

Read the following passage and answer the questions given below: -

Science can certainly contribute its bit towards the development of a culture or towards shaping of subjective reality. In the past, only the poets, the artists and the philosophers, particularly the poets, did this. Their languages have been metaphoric and symbolic. They demand interpretation and re-interpretation to get to the underlying meaning. In future too this would continue to be the dominant pattern of further development. Science may explode the myths about the moon, but poets will continue to create new myths and legends, and, the society its new images, new rituals and new taboos. In his book, *Myths to Live By* (1973), Joseph Campbell has argued this theme in detail. Playwright Ibsen and Psychologist Jung were of the opinion that human beings will always need life-supporting myths.

Question Description

The term used in the passage to imply “any restrictive religious practice or a prohibitive custom” is called a -----

A

taboo

B

ritual

C

myth

D

legend

E

None of the above

Correct Answer

A

Marks

1

54

Comprehension

Read the following passage and answer the questions given below: -

Science can certainly contribute its bit towards the development of a culture or towards shaping of subjective reality. In the past, only the poets, the artists and the philosophers, particularly the poets, did this. Their languages have been metaphoric and symbolic. They demand interpretation and re-interpretation to get to the underlying meaning. In future too this would continue to be the dominant pattern of further development. Science may explode the myths about the moon, but poets will continue to create new myths and legends, and, the society its new images, new rituals and new taboos. In his book, *Myths to Live By* (1973), Joseph Campbell has argued this theme in detail. Playwright Ibsen and Psychologist Jung were of the opinion that human beings will always need life-supporting myths.

Question Description

Identify the word in the passage that is near synonymous with “an unauthenticated, historical story’

A

myth

B

image

C

legend

D

rituals

E

None of the above

Correct Answer

C

Marks

1

Comprehension

Read the following passage and answer the questions given below: -

Science can certainly contribute its bit towards the development of a culture or towards shaping of subjective reality. In the past, only the poets, the artists and the philosophers, particularly the poets, did this. Their languages have been metaphoric and symbolic. They demand interpretation and re-interpretation to get to the underlying meaning. In future too this would continue to be the dominant pattern of further development. Science may explode the myths about the moon, but poets will continue to create new myths and legends, and, the society its new images, new rituals and new taboos. In his book, *Myths to Live By* (1973), Joseph Campbell has argued this theme in detail. Playwright Ibsen and Psychologist Jung were of the opinion that human beings will always need life-supporting myths.

Question Description

The passage seems to suggest that science has been at an arm's length from the subjective reality due to -----

A

its tendency to explode myths

B

its distance from poetry, art and philosophy

C

absence of metaphoric and symbolic content

D

due to its empirical and objective approach

E

None of the above

Correct Answer

D

Marks

1

56	Question Description	How often does the Asian Games take place, and which organization is responsible for organizing it?
	A	Every two years, organized by the Asian Olympic Committee.
	B	Every four years, organized by the Olympic Council of Asia (OCA).
	C	Every year, organized by the International Olympic Committee (IOC).
	D	Every three years, organized by the Asian Games Federation.
	E	None of the above
	Correct Answer	B
	Marks	1

57	Question Description	Golf player Vijay Singh belongs to which country?
	A	USA
	B	Fiji
	C	India
	D	UK
	E	None of the above
	Correct Answer	B
	Marks	1

58	Question Description	Which state cabinet approved a proposal for the inclusion of the Kui language in the 8th schedule of the Constitution of India?
	A	Manipur
	B	Telangana
	C	Odisha
	D	Tripura
	E	None of the above
	Correct Answer	C
	Marks	1

59	Question Description	Who has been appointed as the chairman of the Senior Men's Cricket Selection Committee?
	A	Anil Kumble
	B	Ajit Agarkar
	C	Kapil Dev
	D	Sourav Ganguly
	E	None of the above
	Correct Answer	B
	Marks	1

60	Question Description	Who has been appointed as the head coach for the Asian Games?
	A	Gautam Gambhir
	B	Irfan Pathan
	C	VVS Laxman
	D	Virender Sehwag
	E	None of the above
	Correct Answer	C
	Marks	1

61	Question Description	Which profession did Dr Mangala Narlikar, who passed away, belong to?
	A	Mathematician
	B	Psychologist
	C	Historian
	D	Economist
	E	None of the above
	Correct Answer	A
	Marks	1

62 **Question Description** In which state is the 'Ker Puja' festival celebrated?

A Tripura

B Tamil Nadu

C Punjab

D Jharkhand

E None of the above

Correct Answer A

Marks 1

63 **Question Description** On which date is Chartered Accountants Day observed?

A June 29

B June 30

C July 01

D July 02

E None of the above

Correct Answer C

Marks 1

64	Question Description	On which date is World Oceans Day celebrated?
	A	June 08
	B	June 09
	C	June 10
	D	June 11
	E	None of the above
	Correct Answer	A
	Marks	1

65	Question Description	What tax rate has the Goods and Services Tax (GST) Council decided to impose on online gaming?
	A	18%
	B	24%
	C	28%
	D	32%
	E	None of the above
	Correct Answer	C
	Marks	1

66

Question Description	A certain number of persons are sitting in a row such that Rajat is 11th from the right end of the row, and there 10 persons between Rajat and Manoj. Shobit is exactly between Manoj and Heera, who is 15th from the left end of the row. How many persons are there in the row?
A	35
B	38
C	42
D	Can't be determined
E	None of the above
Correct Answer	D
Marks	1

67

Question Description

Select the missing number from the given alternatives:

38	54	61	79
21	?	12	24
19	09	14	?

A 18,46**B** 28,51**C** 42,62**D** 18,44**E** None of the above**Correct Answer** D**Marks** 1

68

Question Description

Directions: Following questions are based upon the word series given below.

DEN, RAT, EAR, OWL, CUB

If all the letters in all the words are arranged in reverse alphabetical order(within the word), then which of the following words can be formed using first letter of first word from left end, second letter of second word from right end and first letter of second word from left end?

A

BOT

B

ATN

C

NOT

D

TEN

E

None of the above

Correct Answer

C

Marks

1

69

Question Description

From the given Answer Figures, select the one 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

A

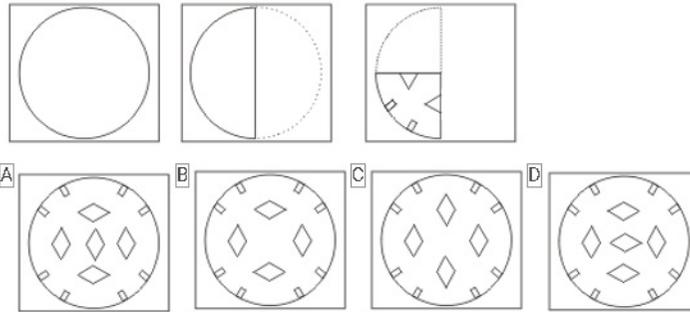
Marks

1

70

Question Description

In the question, a piece of paper is folded and cut as shown below in the question figures. From the given option figure, indicates how it will appear when opened.



A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

B

Marks

1

71

Question Description

Directions : In question, some statements are given, followed by two conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

Statements:

Only Rama is a clerk.

100% honest are Rama.

Conclusions:

I. All Rama are honest.

II. All clerks being honest is a possibility.

A

Only conclusion II follows

B

Either conclusion I or II follows

C

Only conclusion I follows

D

Neither conclusion I nor II follows

E

None of the above

Correct Answer

D

Marks

1

Question Description

Read the paragraph carefully and answer the question given below.

Shipping business is quite dirty. Burning heavy fuel oil, the industry produces 13% of the world's sulphur emissions and 15% of its nitrogen oxides. And by 2050 ships will be producing 17% of all carbon emissions if left unregulated, according to research by the European Union.

Which of the following, if true, weakens the argument in the passage above?

I. Shipping accounts for only around 1.2% of global carbon emissions.

II. Demand for low-sulphur fuel oil and marine diesel is expected to reduce in 2020.

III. As per rules brought in by the The International Maritime Organisation, the United Nations agency for shipping, ship owners have installed equipment to clean the dirty ballast water their ships suck in and discharge.

A Only I

B Only III

C Only I and II

D Only I and III

E None of the above

Correct Answer D

Marks 1

73

Question Description

Directions: A number arrangement machine when given an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: 23 47 52 69 71

Step I: 16 38 20 64 17

Step II: 16 38 64 20 17

Step III: 21 33 30 06 24

Step IV: 06 21 24 30 33

Step V: 11 27 31 38 42

Find the different steps of output using the above mentioned logic for the following input.

Input: 56 29 34 72 41

Which of the following numbers comes in the middle in Step II?

A 56

B 40

C 48

D 74

E None of the above

Correct Answer B

Marks 1

74

Question Description

Find the missing number?
66, 40, 67, 45, 69, ?

A

50

B

60

C

75

D

49

E

None of the above

Correct Answer

A

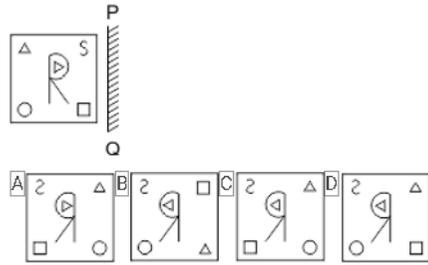
Marks

1

75

Question Description

Select the mirror image of the following figure from the options provided below:

**A**

A

B

B

C

C

D

D

E

None of the above

Correct Answer

C

Marks

1