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Computer Based Examination System

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| Exported On * | 2023/09/04 16:55:24 |
| Title * | Question Paper Answer Key |
| OES Exam * | PHYGPSC04202304 / Assistant District Educational Inspectors/ Teacher Grade -I(PHYSICS)/ Completed / 2023-09-03 |

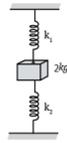
| | | |
|---|-----------------------------|--|
| 1 | Question Description | <p>If each of resistance of the network shown below is R. The equivalent resistance between A & B is</p> <p>A) 5R B) 3R C) R D) R/2</p> <div style="text-align: center;"> </div> |
| | A | A |
| | B | B |
| | C | C |
| | D | D |
| | E | None of the above |
| | Correct Answer | C |
| | Marks | 1 |

2

Question Description

A 2kg block is connected with two springs of for a constant $8K_1 = 100 \frac{N}{M}$ and $K_2 = 300 \frac{N}{M}$, as shown in figure. The block is released from rest with spring's un-stretched. The acceleration of block in its lowest position is ($g = 10 \frac{m}{s^2}$)

- A) Zero
- B) $5 \frac{m}{s^2}$ upwards
- C) $10 \frac{m}{s^2}$ downwards
- D) $10 \frac{m}{s^2}$ upwards



A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

D

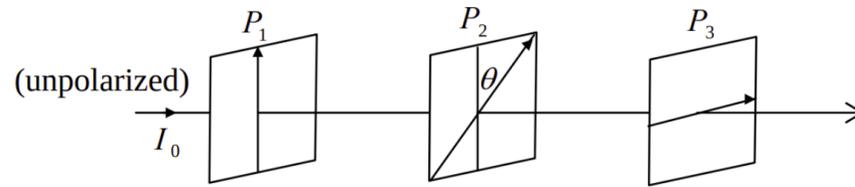
Marks

1

3

Question Description

Consider three polarizers P_1 , P_2 and P_3 placed along an axis as shown below:



The pass axis of P_1 and P_3 are at right angles to each other while the pass axis of P_2 makes an angle θ with that of P_1 . A beam of unpolarized light of intensity I_0 is incident on P_1 as shown. The intensity of light emerging from P_3 is

- 0
- $\frac{I_0}{2}$
- $\frac{I_0}{8} \sin^2(2\theta)$
- $\frac{I_0}{4} \sin^2(2\theta)$

| | |
|-----------------------|-------------------|
| A | a |
| B | b |
| C | c |
| D | d |
| E | None of the above |
| Correct Answer | C |
| Marks | 1 |

4

Question Description

What is the approximate value of acceleration due to gravity at the top of a mountain which is 8 km high if measured from the sea level?

- a. 9.77 m/s^2
- b. 9.88 m/s^2
- c. 6.49 m/s^2
- d. 8.85 m/s^2

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

A

Marks

1

5

Question Description

The dimensions of electrical conductivity are

A) $m^{-1}L^{-3}T^3A^2$

B) $m^1L^3T^3A^2$

C) $m^1L^3T^{-3}A^{-2}$

D) $m^2L^3T^{-3}A^2$

A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

A

Marks

1

| | | |
|---|-----------------------------|---|
| 6 | Question Description | The energy required to accelerate a car from 10m/s to 20 m/s is n times the energy required to accelerate the same car from rest to 10m/s. where n is |
| | A | 1 |
| | B | 4 |
| | C | 2 |
| | D | 3 |
| | E | None of the above |
| | Correct Answer | D |
| | Marks | 1 |

| | | |
|---|-----------------------------|--|
| 7 | Question Description | In an amplitude-modulated wave for an audio frequency of 500 Hz, the appropriate carrier frequency will be |
| | A | 50 Hz |
| | B | 100 Hz |
| | C | 500 Hz |
| | D | 50,000 Hz |
| | E | None of the above |
| | Correct Answer | D |
| | Marks | 1 |

8

Question Description

In Young's double-slit experiment, there are two slits of unequal widths, one being four times wider than the other. If I_{max} and I_{min} denote the intensities at a neighbouring maximum and a minimum, then the ratio $\frac{I_{min}}{I_{max}}$ is

- a. 0
- b. $\frac{1}{4}$
- c. $\frac{3}{5}$
- d. $\frac{1}{9}$

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

D

Marks

1

9

| | |
|-----------------------------|---|
| Question Description | When a ceiling fan is switched off, its angular velocity falls to half while it make 36 rotations. How many more rotations will it make before coming to rest? (Assume uniform angular retardation) |
| A | 36 |
| B | 24 |
| C | 18 |
| D | 12 |
| E | None of the above |
| Correct Answer | D |
| Marks | 1 |

10

Question Description

The ratio of maximum to minimum resistance that can be obtained with N $1\text{-}\Omega$ resistors is

- a. N
- b. N^2
- c. 1
- d. ∞

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

B

Marks

1

| | | |
|----|-----------------------------|--|
| 11 | Question Description | If a scale shows your weight as 500 N in a stationary lift, what weight will it show as you ascend with an acceleration of 0.5g? |
| | A | 250 N |
| | B | 750 N |
| | C | 500 N |
| | D | 550 N |
| | E | None of the above |
| | Correct Answer | A |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 12 | Question Description | The maximum number of possible interference maxima for slit separation equal to twice wavelength in Young's double slit experiment is |
| | A | infinite |
| | B | Five |
| | C | Three |
| | D | Zero |
| | E | None of the above |
| | Correct Answer | B |
| | Marks | 1 |

13

| | |
|-----------------------------|---|
| Question Description | The order of magnitude of the energy band gap of a typical semiconductor is |
|-----------------------------|---|

| | |
|----------|-------|
| A | 1 MeV |
|----------|-------|

| | |
|----------|-------|
| B | 1 keV |
|----------|-------|

| | |
|----------|------|
| C | 1 eV |
|----------|------|

| | |
|----------|-------|
| D | 1 meV |
|----------|-------|

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

| | |
|-----------------------|---|
| Correct Answer | C |
|-----------------------|---|

| | |
|--------------|---|
| Marks | 1 |
|--------------|---|

14

Question Description

A & B are two metals with threshold frequencies $1.8 \times 10^{14} \text{ Hz}$ & $2.2 \times 10^{14} \text{ Hz}$. Two identical photons of energy 0.825 eV each are incident on them. Then photoelectrons are emitted in (take $h = 6.6 \times 10^{-34} \text{ Js}$)

- A) B alone
- B) A alone
- C) in neither A nor B
- D) in both A & B

A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

B

Marks

1

15

Question Description

The moment of inertia of a uniform cylinder of length l and radius R about its perpendicular bisector is I . What is the ratio l/R such that the moment of inertia is minimum?

- a. 1
- b. $\sqrt{\frac{3}{2}}$
- c. $\frac{\sqrt{3}}{2}$
- d. $\sqrt{\frac{2}{3}}$

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

B

Marks

1

16

Question Description

For a gas under isothermal conditions, its pressure P varies with volume V as $P \approx V^{-5/3}$.
The bulk modulus B is proportional to

- a. $V^{-1/2}$
- b. $V^{-2/3}$
- c. $V^{-3/5}$
- d. $V^{-5/3}$

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

D

Marks

1

17

Question Description

Two air capacitors of $5\mu F$, $10\mu F$, charged to 10V are connected in parallel. The space between 1st capacitor is filled with a dielectric material of dielectric constant 3. Potential difference between capacitor becomes.

- A) 10 V
- B) 5 V
- C) 3 V
- D) 6 V

A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

D

Marks

1

18

Question Description

A horizontal pipeline carries water in a streamline flow. At a point along the pipeline where the cross sectional area is 10 cm^2 , the velocity of water is 1 m/s , the pressure is 2000 Pa . The pressure at a point of cross sectional area 5 cm^2 is

A

250 Pa

B

1000 Pa

C

750 Pa

D

500 Pa

E

None of the above

Correct Answer

D

Marks

1

19

Question Description

The ratio between the most probable speed and root mean square speed of a gas molecule is

- a. $\sqrt{\frac{3}{2}}$
- b. $\sqrt{\frac{2}{3}}$
- c. $\sqrt{\frac{3}{8\pi}}$
- d. $\sqrt{\frac{8}{3\pi}}$

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

B

Marks

1

20

Question Description

A ray of light passes through an equilateral prism such that the angle of incidence is equal to the angle of emergence and the latter is equal to $\frac{3}{4}$ th of the angle of prism. The angle of deviation is

- A) 45°
- B) 39°
- C) 20°
- D) 30°

A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

D

Marks

1

21

Question Description

An ideal fluid flows (laminar flow) through a pipe of non-uniform diameter. The maximum and minimum diameters of the pipes are 6.4 cm and 4.8 cm, respectively. The ratio of the minimum and maximum velocity of the fluid in this pipe is

- a. $\frac{9}{16}$
- b. $\sqrt{\frac{3}{2}}$
- c. $\frac{3}{4}$
- d. $\frac{81}{256}$

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

A

Marks

1

22

| | |
|-----------------------------|--|
| Question Description | The minimum number of NAND gates required to construct an OR gate is |
| A | 2 |
| B | 5 |
| C | 4 |
| D | 3 |
| E | None of the above |
| Correct Answer | D |
| Marks | 1 |

23

| | |
|-----------------------------|--|
| Question Description | After being hit, a cricket ball reaches a maximum height of 60 m with a speed of 20 m/s. What is the approximate speed of the ball, right after being hit? |
| A | 40 m/s |
| B | 60 m/s |
| C | 80 m/s |
| D | 100 m/s |
| E | None of the above |
| Correct Answer | A |
| Marks | 1 |

24

| | |
|-----------------------------|---|
| Question Description | Consider a particle of electric charge 'e' and mass 'm' moving under the influence of a constant horizontal electric field 'E' and a constant vertical gravitational field described by the acceleration due to gravity 'g'. If the particle starts from rest, what will be its trajectory? |
| A | straight line |
| B | parabolic |
| C | circular |
| D | elliptic |
| E | None of the above |
| Correct Answer | A |
| Marks | 1 |

25

Question Description

The length scale at which gravitational effects become significant is

- a. Ghc
- b. Ghc^2
- c. $\frac{Gc^3}{h}$
- d. $\sqrt{\frac{Gh}{c^3}}$

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

D

Marks

1

| | | |
|----|-----------------------------|--|
| 26 | Question Description | According to Einstein's photoelectric equation, the plot of the kinetic energy of the emitted photoelectrons from a metal vs the frequency of the incident radiation gives a straight line whose slope |
| | A | depends on the nature of the metal used |
| | B | depends on the intensity of the radiation |
| | C | depends both on the intensity of the radiation and the metal used |
| | D | is the same for all metals and independent of the intensity of the radiation. |
| | E | None of the above |
| | Correct Answer | D |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 27 | Question Description | A ball is dropped from a height of 20 m. If the coefficient of restitution is 0.9, what will be the height attained after the first bounce? |
| | A | 1.42 m |
| | B | 1.62 m |
| | C | 14.2 m |
| | D | 16.2 m |
| | E | None of the above |
| | Correct Answer | D |
| | Marks | 1 |

28

Question Description

The wavelength of red helium-neon laser in air is 6328 \AA . What happens to its frequency in glass that has a refractive index of 1.50?

- a. Decreases by a factor of 0.5
- b. Decreases by a factor of 1.5
- c. Remains the same
- d. Increases by a factor of 3.0

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

C

Marks

1

29

Question Description

The relation between the speed of light c , permeability, μ_0 , and permittivity ϵ_0 is

a. $c = \mu_0 \epsilon_0$

b. $c = \sqrt{\frac{\mu_0}{\epsilon_0}}$

c. $c = \sqrt{\frac{1}{\mu_0 \epsilon_0}}$

d. $c = \frac{1}{\mu_0 \epsilon_0}$

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

C

Marks

1

30

| | |
|-----------------------------|---|
| Question Description | On interchanging the resistances, the balance point of a meter bridge shifts to the left by 10 cm. The resistance of the combination is 1Ω . How much was the resistance on the left slot before the interchange? |
| A | 505Ω |
| B | 550Ω |
| C | 910Ω |
| D | 990Ω |
| E | None of the above |
| Correct Answer | B |
| Marks | 1 |

31

| | |
|-----------------------------|--|
| 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 |

32

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

33

| | |
|-----------------------------|---|
| 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 |

34

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

| | | |
|----|-----------------------------|---|
| 35 | 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 |

| | | |
|----|-----------------------------|---|
| 36 | 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 |

37

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

| | | |
|----|-----------------------------|---|
| 38 | 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 |
| | Correct Answer | D |
| | 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 |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 40 | 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 |

| | | |
|----|-----------------------------|---|
| 41 | 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 |

42

| | |
|-----------------------------|---|
| 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 |

43

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

44

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

| | | |
|----|-----------------------------|---|
| 45 | 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 |

| | | |
|----|-----------------------------|--|
| 46 | 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 |

47

Question Description

Read the following statements.

I. Selecting work to be put in portfolio on the basis of specific

II. Selecting all items students work to be put in portfolios

III. making the child select his/her work to be put in the portfolio

IV. Collecting a range of students work over a period of time

The good practice for making students portfolios is _____

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

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

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

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

Marks

1

51

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

Myths and legends are significant because

A

speak through metaphors and symbols

B

they 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

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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 | 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 |

| | | |
|----|-----------------------------|---|
| 58 | 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 |

| | | |
|----|-----------------------------|---|
| 59 | 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 |

60 **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

61 **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

| | | |
|----|-----------------------------|---|
| 62 | 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 |

| | | |
|----|-----------------------------|---|
| 63 | 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 |

| | | |
|----|-----------------------------|---|
| 64 | 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 |

| | | |
|----|-----------------------------|--|
| 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

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

67

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

68

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

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

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

71

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

72

| | |
|-----------------------------|---|
| 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 |

73

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

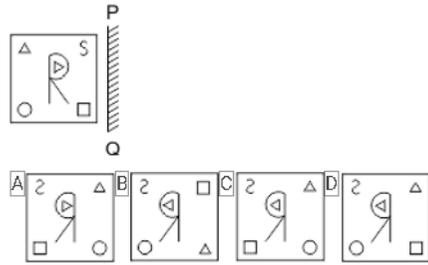
Marks

1

74

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

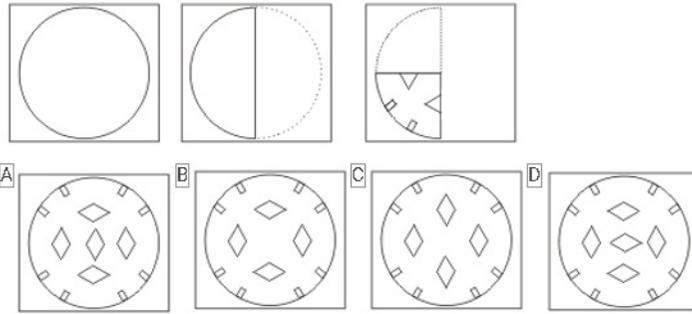
Marks

1

75

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