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Computer Based Examination System

Exported On *	2023/09/04 14:58:20
Title *	Question Paper Answer Key
OES Exam *	CHEGPSC04202304 / Assistant District Educational Inspectors/ Teacher Grade -I(CHEMISTRY)/ Completed / 2023-09-03

1	<p><b>Question Description</b></p> <p>Following are some <i>meta</i>-directing substituents in aromatic substitution. Which one is most deactivating?                  (a) <math>-C\equiv N</math>                      (b) <math>-SO_3H</math>                      (c) <math>-COOH</math>                      (d) <math>-NO_2</math></p>
	<b>A</b> a
	<b>B</b> b
	<b>C</b> c
	<b>D</b> d
	<b>E</b> None of the above
	<b>Correct Answer</b> D
	<b>Marks</b> 1

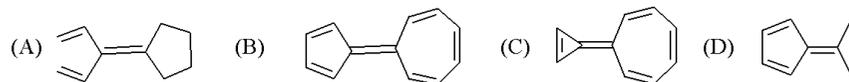
2

<b>Question Description</b>	When a mixture of primary amine and chloroform with ethanolic potassium hydroxide (KOH) is heated, it forms ____.
<b>A</b>	an alkyl isocyanide
<b>B</b>	an alkyl halide
<b>C</b>	an amide
<b>D</b>	an amide and nitro compound
<b>E</b>	None of the above
<b>Correct Answer</b>	A
<b>Marks</b>	1

3

**Question Description**

Among the following compounds, the one which has highest dipole moment is



A

A

B

B

C

C

D

D

E

None of the above

**Correct Answer**

B

**Marks**

1

4	<b>Question Description</b>	The change in internal energy of a 2 moles of a gas is -10 J. Find the work done on the gas, if the process is adiabatic.
	<b>A</b>	20 J
	<b>B</b>	15 J
	<b>C</b>	10 J
	<b>D</b>	5 J
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

5	<b>Question Description</b>	<b>Among the following reactions, the one in which Carbon-carbon bonds are not formed is _____?</b>
	<b>A</b>	Cannizzaro reaction
	<b>B</b>	Reimer-Tiemann reaction
	<b>C</b>	Wurtz reaction
	<b>D</b>	Aldol condensation
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

6

**Question Description**

Which of the following are Lewis acids?

(a)  $\text{AlCl}_3$  and  $\text{SiCl}_4$ (b)  $\text{PH}_3$  and  $\text{SiCl}_4$ (c)  $\text{BCl}_3$  and  $\text{AlCl}_3$ (d)  $\text{PH}_3$  and  $\text{BCl}_3$ **A**

a

**B**

b

**C**

c

**D**

d

**E**

None of the above

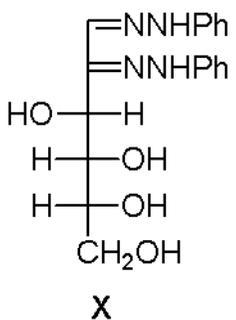
**Correct Answer**

C

**Marks**

1

7	<b>Question Description</b>	A binary mixture of A <sub>2</sub> and B <sub>2</sub> will show negative deviation from Raoult's law when _____
	<b>A</b>	A-B and B-B interactions are stronger than A-A
	<b>B</b>	A-A and B-B interactions are weaker than A-B.
	<b>C</b>	Both A-A and B-B interactions are equal to A-B
	<b>D</b>	Either A-A and B-B interactions are equal to A-B
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

8	<b>Question Description</b>	<p>The osazone X could be obtained from both</p>  <p style="text-align: center;"><b>X</b></p>
	<b>A</b>	Glucose and Galactose

<b>B</b>	Glucose and Mannose
<b>C</b>	Mannose and Galactose
<b>D</b>	Glactose and Fructose
<b>E</b>	None of the above
<b>Correct Answer</b>	B
<b>Marks</b>	1

9

**Question Description**

A gas maintained at 300 K expands from 0.1 L to 0.25 L against an external pressure of 2 bar under isothermal condition. The work done by the gas is \_\_\_\_ (Given that 1 L bar = 100J).

(a) 5 kJ

(b) 25 J

(c) -30J

(d) 30 J

**A**

a

**B**

b

**C**

c

**D**

d

**E**

None of the above

**Correct Answer**

C

**Marks**

1

10	<b>Question Description</b>	The water-soluble Vitamin among the following is ____.
	<b>A</b>	Vitamin B
	<b>B</b>	Vitamin A
	<b>C</b>	Vitamin K
	<b>D</b>	Vitamin E
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

11	<b>Question Description</b>	Among the following mixtures the ideal solution is ____.
	<b>A</b>	Choloroform and acetone
	<b>B</b>	Ethyl iodide and ethyl bromide
	<b>C</b>	Phenol and aniline
	<b>D</b>	Carbon disulphide and acetone
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

12	<b>Question Description</b>	The oxidation of toluene to benzaldehyde by chromyl chloride is called
	<b>A</b>	Cannizzaro reaction
	<b>B</b>	Wurtz reaction
	<b>C</b>	Etard reaction
	<b>D</b>	Reimer-Tiemann reaction
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

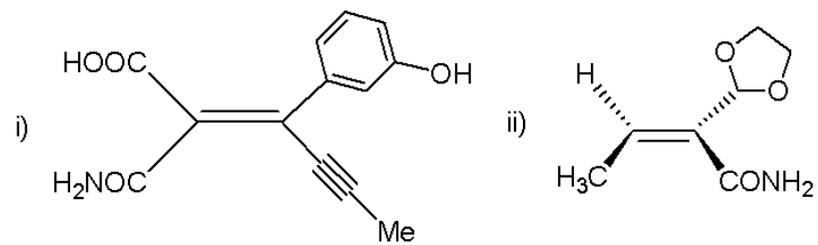
13	<b>Question Description</b>	The standard Gibbs energy formation of diamond is $2.90 \text{ kJ mol}^{-1}$ greater than that of graphite at 298 K. The more stable allotrope is
	<b>A</b>	Graphite
	<b>B</b>	Diamond
	<b>C</b>	Both are equally stable
	<b>D</b>	Data insufficient
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

14	<b>Question Description</b>	A cyclic heat engine does 50 kJ of work per cycle. If efficiency of engine is 75%, the heat rejected per cycle will be
	<b>A</b>	60.6 kJ
	<b>B</b>	16.6 kJ
	<b>C</b>	66.6 kJ
	<b>D</b>	200 kJ
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

15	<b>Question Description</b>	Salicylaldehyde condense with acetic anhydride in presence of base catalyst then the product is
	<b>A</b>	Cinnamylacrylic acid
	<b>B</b>	Chrysin
	<b>C</b>	Furylacrylic acid
	<b>D</b>	Coumarin
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

## Question Description

The configuration of the following stereoisomers are



- A) i) E; ii) Z    B) i) E; ii) E    C) i) Z; ii) Z    D) i) Z; ii) E

A

A

B

B

C

C

D

D

E

None of the above

Correct Answer

A

Marks

1

17

**Question Description**

Given the spectral transitions for  $[\text{CrF}_6]^{3-}$  complex as 671 nm [ ${}^4A_{2g} \rightarrow {}^4T_{2g}$ ], 441 nm [ ${}^4A_{2g} \rightarrow {}^4T_{1g}(\text{F})$ ], and 291 nm [ ${}^4A_{2g} \rightarrow {}^4T_{1g}(\text{P})$ ], the Racah parameter  $B'$  is closest to \_\_\_\_\_

(A) 1986  $\text{cm}^{-1}$   
(B) 2813  $\text{cm}^{-1}$   
(C) 827  $\text{cm}^{-1}$   
(D) 213  $\text{cm}^{-1}$

**A**

A

**B**

B

**C**

C

**D**

D

**E**

None of the above

**Correct Answer**

C

**Marks**

1

18

**Question Description**

If the second Bohr orbit of the hydrogen atom has energy of  $-328 \text{ kJ mol}^{-1}$ , then the fourth Bohr orbit would have \_\_\_\_ energy.  
(a)  $-41 \text{ kJmol}^{-1}$       (b)  $-82 \text{ kJmol}^{-1}$       (c)  $-164 \text{ kJmol}^{-1}$       (d)  $-1312 \text{ kJmol}^{-1}$

**A**

a

**B**

b

**C**

c

**D**

d

**E**

None of the above

**Correct Answer**

B

**Marks**

1

19	<b>Question Description</b>	An analgesic among the following is _____
	<b>A</b>	Streptomycin
	<b>B</b>	Novalgin
	<b>C</b>	Penicillin
	<b>D</b>	Chloromycitin
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

20	<b>Question Description</b>	The magnetic moment of a divalent ion in aqueous solution of an element with atomic number 25 is ____
	<b>A</b>	2.84 BM
	<b>B</b>	3.87 BM
	<b>C</b>	4.90 BM
	<b>D</b>	5.92 BM
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

21

<b>Question Description</b>	Greater number of oxidation states are exhibited by actinoids compared to the lanthanoids because _____.
<b>A</b>	the 5f orbitals extend further from the nucleus than the 4f orbitals
<b>B</b>	the 5f orbitals are more buried than the 4f orbitals
<b>C</b>	similarity between 4f and 5f orbitals in their angular part of the wave function
<b>D</b>	the actinoids are more reactive than the lanthanoids.
<b>E</b>	None of the above
<b>Correct Answer</b>	A
<b>Marks</b>	1

22

**Question Description**

The Freundlich adsorption isotherm equation is \_\_\_\_\_

(a)  $\frac{x}{m} = kp^{2.5}$       (b)  $\frac{x}{m} = kp^{-0.5}$       (c)  $\frac{x}{m} = kp^{0.3}$       (d)  $\frac{x}{m} = kp^{-1}$

**A**

a

**B**

b

**C**

c

**D**

d

**E**

None of the above

**Correct Answer**

C

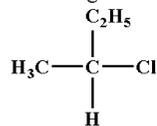
**Marks**

1

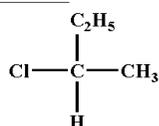
23

**Question Description**

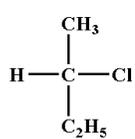
The compound  $\text{CH}_3-\text{CHCl}-\text{CH}_2-\text{CH}_3$  has a chiral centre. The one which represents its *R*-configuration is \_\_\_\_\_.



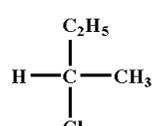
(a)



(b)



(c)



(d)

A

a

B

b

C

c

D

d

E

None of the above

**Correct Answer**

B

**Marks**

1

24

**Question Description**

Equal number of  $\sigma$  and  $\pi$ -bonds are present in \_\_\_\_\_.  
(a)  $\text{XeO}_4$                       (b)  $(\text{CN})_2$                       (c)  $\text{CH}_2(\text{CN})_2$                       (d)  $\text{HCO}_3^-$

**A**

a

**B**

b

**C**

c

**D**

d

**E**

None of the above

**Correct Answer**

A

**Marks**

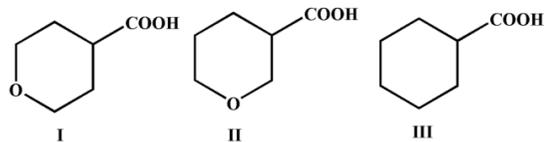
1

25

<b>Question Description</b>	Consider equation $t = ap+b$ , if the pressure at ice point and the steam point is 2 bar and 4 bar respectively then calculate t at $p = 3.5$ bar. P is pressure, t is temperature and a, b, c are constant.
<b>A</b>	100 °C
<b>B</b>	75 °C
<b>C</b>	20 °C
<b>D</b>	0 °C
<b>E</b>	None of the above
<b>Correct Answer</b>	B
<b>Marks</b>	1

## Question Description

The correct order of strengths of the carboxylic acids is \_\_\_\_\_.



(a) I &gt; II &gt; III

(b) II &gt; III &gt; I

(c) III &gt; II &gt; I

(d) II &gt; I &gt; III

A

a

B

b

C

c

D

d

E

None of the above

Correct Answer

D

Marks

1

27	<b>Question Description</b>	The pair of ions having the same electronic configuration is _____
	<b>A</b>	Cr(III), Fe(III)
	<b>B</b>	Fe(III), Mn(II)
	<b>C</b>	Fe(III), Co(III)
	<b>D</b>	Sc(III), Cr(III)
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

28	<b>Question Description</b>	Condensation of a secondary amine, HCHO and a ketone is called _____.
	<b>A</b>	Mannich reaction
	<b>B</b>	Wolff reaction
	<b>C</b>	Kolbe reaction
	<b>D</b>	Knoevenagel reaction
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

29

<b>Question Description</b>	Starch consists of
<b>A</b>	Branched amylose and branched amylopectin
<b>B</b>	Unbranched amylose and branched amylopectin
<b>C</b>	Unbranched amylose and unbranched amylopectin
<b>D</b>	Branched amylose and unbranched amylopectin
<b>E</b>	None of the above
<b>Correct Answer</b>	B
<b>Marks</b>	1

30

**Question Description**

The rate of the reaction  $2\text{NO} + \text{Cl}_2 \rightarrow 2\text{NOCl}$  is given by the rate equation  $\text{Rate} = k [\text{NO}]^2 [\text{Cl}_2]$ . The value of the rate constant can be increased by

- (A) Increasing the temperature
- (B) Increasing the concentration of  $\text{Cl}_2$
- (C) Decreasing the temperature
- (D) Increasing the concentration of  $\text{NO}$

**A**

A

**B**

B

**C**

C

**D**

D

**E**

None of the above

**Correct Answer**

A

**Marks**

1

31

**Question Description**

Match the following:

List I (Condition)

- A. Dysphasia
- B. Dyscalculia
- C. Dyspraxia
- D. Dyslexia

List II (Characteristics)

- 1. Difficulty in reading
- 2. Difficulty in fine motor skills
- 3. Language difficulty
- 4. Difficulty in maths

Codes:

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

**A**

a

**B**

b

**C**

c

**D**

d

**E**

None of the above

**Correct Answer**

B

**Marks**

1

32

<b>Question Description</b>	Modern education strategies, including National Education Policy 2020, emphasises that students ought to learn in schools through
<b>A</b>	Conditioning
<b>B</b>	Passive imitation
<b>C</b>	Direct instruction
<b>D</b>	Discovery and exploration
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1

**Question Description**

Match List- I and List- II

List-I

(Characteristics)

(A) Learning by doing

(B) Education through environment

(C) Self-actualisation

List-II

(Philosophy)

(i). Naturalism

(ii). Pragmatism

(iii). Humanisism

(iv). Idealism

Codes:

**A**

A-(i), B-(ii), C-(iv)

**B**

A-(ii), B-(iii), C-(i)

**C**

A-(ii), B-(i), C-(iii)

**D**

A-(ii), B-(iii), C-(iv)

**E**

None of the above

**Correct Answer**

C

**Marks**

1

34

<b>Question Description</b>	A predominantly heredity related factor is _____
<b>A</b>	Attitude towards peer group
<b>B</b>	Thinking pattern
<b>C</b>	Color of the eyes
<b>D</b>	Participation in social activities
<b>E</b>	None of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1

35

**Question Description**

If  
I. Community  
II. Family  
III. Peer Group  
IV Formal Educational Institution  
then the major socialisation agencies are \_\_\_\_\_

**A**

II, III and IV

**B**

I ,II, III and IV

**C**

I and III

**D**

I, II and III

**E**

None of the above

**Correct Answer**

A

**Marks**

1

36

<b>Question Description</b>	In the teaching -learning process the following is done first
<b>A</b>	Determination on of strategies
<b>B</b>	Task analysis Placement, Formative Diagnostic, Summative Evaluation
<b>C</b>	Determination of Objectives
<b>D</b>	Writing Objectives
<b>E</b>	None of the above
<b>Correct Answer</b>	B
<b>Marks</b>	1

37

**Question Description**

Assertion (A): Formative assessment tends to accelerate the process of learning.  
Reason (R): As against summative evaluation. Formative assessment is highly reliable.  
Choose the correct answer from the following code:

**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**

(A) is true, but (R) is false.

**D**

(A) is false, but (R) is true.

**E**

None of the above

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

38	<b>Question Description</b>	The type of grading in which grades are assigned according to cut-off levels decided before the start of the program is _____
	<b>A</b>	Direct Grading
	<b>B</b>	Indirect Grading
	<b>C</b>	Absolute Grading
	<b>D</b>	D. Relative Grading
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

39	<b>Question Description</b>	People who have spatial intelligence have career scope as:
	<b>A</b>	Musicians, Singers and Music Composers
	<b>B</b>	Artists, Designers and Architects.
	<b>C</b>	Scientists, Mathematicians and Logicians.
	<b>D</b>	Dancers, Athletes and Surgeons.
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

40

<b>Question Description</b>	According to Jean Piaget's theory of Cognitive development, at which stage, children's thinking becomes scientific?
<b>A</b>	Sensorimotor
<b>B</b>	Pre-Operational
<b>C</b>	Concrete Operational
<b>D</b>	Formal Operational
<b>E</b>	None of the above
<b>Correct Answer</b>	D
<b>Marks</b>	1

41

**Question Description**

Classroom communication is

- A. Like a computer program
- B. Dictatorial
- C. Purposeful
- D. Pragmatic

Choose the correct option from those given below:

**A**

A and D

**B**

C and D

**C**

A and B

**D**

B, C and D

**E**

None of the above

**Correct Answer**

B

**Marks**

1

42	<b>Question Description</b>	Which of the following are used in the educational system as ICT-based tools for assessment.
	<b>A</b>	e-Pathshala and e-portfolio
	<b>B</b>	e-portfolios and e-rubrics
	<b>C</b>	eBasta and e-Pathshala
	<b>D</b>	eBasta and e-rubrics
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

43	<b>Question Description</b>	Utility and change are the basic principles of _____
	<b>A</b>	Naturalism
	<b>B</b>	Realism
	<b>C</b>	Idealism
	<b>D</b>	Pragmatism
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

44	<b>Question Description</b>	Communication in the class fails because:
	<b>A</b>	The students are inattentive.
	<b>B</b>	The teacher is monotonous in delivering the message.
	<b>C</b>	The students have no interest in the lesson being taught.
	<b>D</b>	There is much noise in and around the classroom.
	<b>E</b>	None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

45	<b>Question Description</b>	The stage according to Piaget when infants think with their eyes, ears and hands is ____
	<b>A</b>	Concrete operational stage
	<b>B</b>	Preoperational stage
	<b>C</b>	Sensorimotor stage
	<b>D</b>	Formal operational stage
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

46	<b>Question Description</b>	The most important aspect of effective Communication is _____
	<b>A</b>	The senders ability is to articulate
	<b>B</b>	The use of persuasive techniques
	<b>C</b>	The receivers ability to understand the message
	<b>D</b>	The use of complex vocabulary
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

47	<b>Question Description</b>	According to Edgar Dale's Cone of Experience, better learning is achieved through ____
	<b>A</b>	Dramatic Experience
	<b>B</b>	Visual symbols
	<b>C</b>	Direct purposeful experience
	<b>D</b>	Verbal symbols
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

48

**Question Description**

Which of the following statement best describes the connection between philosophy and education?

Choose the correct answer from the codes given below.

- i) The objectives and goals of education have to be decided by our stand on the nature of man.
- ii) Learning requires a process of internalisation and acquisition.
- iii) Education should be life itself, rather than a preparation for living.
- iv) Education and technology, among other things, influence social transformation.

**Codes****A**

i and ii

**B**

iii and iv

**C**

i and iii

**D**

i, and iv

**E**

None of the above

**Correct Answer**

C

**Marks**

1

49

**Question Description**

Constructivist approach to teaching –learning process is being emphasized at all levels of education. Which of the following method or methods are mainly based on the approach?

**A**

Lecture method

**B**

Project method

**C**

Discussion method

**D**

All of the above.

**E**

None of the above

**Correct Answer**

A

**Marks**

1

50

<b>Question Description</b>	Attitudes, values and Interests can be reflected by which of the following domains?
<b>A</b>	Cognitive Domain
<b>B</b>	Evaluative Domain
<b>C</b>	Affective Domain
<b>D</b>	Psychomotor Domain
<b>E</b>	None of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1

51

**Comprehension**

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

Curiosity properly so-called, on the other hand, is inspired by a genuine love of knowledge. You may see this impulse, in a moderately pure form, at work in a cat which has been brought to a strange room, and proceeds to smell every corner and every piece of furniture. You will also see it in children, who are passionately interested when a drawer or cupboard which is usually closed is opened for their inspection. Animals, machines, thunderstorms, and all form of manual work, arouse the curiosity of children, whose thirst for knowledge, puts the most intelligent adult to shame. This impulse grows weaker with advancing years, until at last what is unfamiliar inspires only disgust, with no desire for a closer acquaintance. This is the stage at which people announce that the country is going to the dogs, and that 'things are not what they were in my young days.' The things which were not the same as it was in that far-off time is the speaker's curiosity. And with the death of curiosity we may reckon that active intelligence, also has died.

**Question Description**

The immediate outcome of advancing age vis-à-vis curiosity as stated in the passage is the following:

**A**

the unfamiliar inspires disgust

**B**

there is lack of desire to know the unfamiliar

**C**

the thirst for knowledge becomes weaker

**D**

death of curiosity occurs

**E**

None of the above

**Correct Answer**

C

**Marks**

1

52

**Comprehension**

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

Curiosity properly so-called, on the other hand, is inspired by a genuine love of knowledge. You may see this impulse, in a moderately pure form, at work in cat which has been brought to a strange room, and proceeds to smell every corner and every piece of furniture. You will also see it in children, who are passionately interested when a drawer or cupboard which is usually closed is opened for their inspection. Animals, machines, thunderstorms, and all form of manual work, arouse the curiosity of children, whose thirst for knowledge, puts the most intelligent adult to shame. This impulse grows weaker with advancing years, until at last what is unfamiliar inspires only disgust, with no desire for a closer acquaintance. This is the stage at which people announce that the country is going to the dogs, and that 'things are not what they were in my young days.' The things which not the same as it was in that far-off time is the speaker's curiosity. And with the death of curiosity we may reckon that active intelligence, also has died.

**Question Description**

Read the following statements and place them in correct sequence, based on the implication of the passage:

- (i) At this stage people announce that the country is going to the dogs
- (ii) With the death of curiosity, active intellect is dented.
- (iii) The thing which is no longer the same is the individual's curiosity
- (iv) This impulse grows weaker with advancing years

**A**

(iv); (iii); (i); (ii)

**B**

(iv); (iii); (ii); (i)

**C**

(i); (iii); (iv); (ii)

**D**

(iv); (ii); (iii); (i)

**E**

None of the above

**Correct Answer**

A

**Marks**

1

**Comprehension**

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

Curiosity properly so-called, on the other hand, is inspired by a genuine love of knowledge. You may see this impulse, in a moderately pure form, at work in a cat which has been brought to a strange room, and proceeds to smell every corner and every piece of furniture. You will also see it in children, who are passionately interested when a drawer or cupboard which is usually closed is opened for their inspection. Animals, machines, thunderstorms, and all form of manual work, arouse the curiosity of children, whose thirst for knowledge, puts the most intelligent adult to shame. This impulse grows weaker with advancing years, until at last what is unfamiliar inspires only disgust, with no desire for a closer acquaintance. This is the stage at which people announce that the country is going to the dogs, and that 'things are not what they were in my young days.' The things which were not the same as it was in that far-off time is the speaker's curiosity. And with the death of curiosity we may reckon that active intelligence, also has died.

**Question Description**

The phrase 'this impulse' in the passage refers to

**A**

genuine thirst of knowledge

**B**

curiosity

**C**

active intelligence

**D**

passionate interest

**E**

None of the above

**Correct Answer**

B

**Marks**

1

54

**Comprehension**

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

Curiosity properly so-called, on the other hand, is inspired by a genuine love of knowledge. You may see this impulse, in a moderately pure form, at work in a cat which has been brought to a strange room, and proceeds to smell every corner and every piece of furniture. You will also see it in children, who are passionately interested when a drawer or cupboard which is usually closed is opened for their inspection. Animals, machines, thunderstorms, and all form of manual work, arouse the curiosity of children, whose thirst for knowledge, puts the most intelligent adult to shame. This impulse grows weaker with advancing years, until at last what is unfamiliar inspires only disgust, with no desire for a closer acquaintance. This is the stage at which people announce that the country is going to the dogs, and that 'things are not what they were in my young days.' The things which were not the same as it was in that far-off time is the speaker's curiosity. And with the death of curiosity we may reckon that active intelligence, also has died.

**Question Description**

Identify the figure of speech in the following statement: "the country is going to the dogs"

**A**

personification

**B**

simile

**C**

euphemism

**D**

antithesis

**E**

None of the above

**Correct Answer**

C

**Marks**

1

**Comprehension**

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

Curiosity properly so-called, on the other hand, is inspired by a genuine love of knowledge. You may see this impulse, in a moderately pure form, at work in cat which has been brought to a strange room, and proceeds to smell every corner and every piece of furniture. You will also see it in children, who are passionately interested when a drawer or cupboard which is usually closed is opened for their inspection. Animals, machines, thunderstorms, and all form of manual work, arouse the curiosity of children, whose thirst for knowledge, puts the most intelligent adult to shame. This impulse grows weaker with advancing years, until at last what is unfamiliar inspires only disgust, with no desire for a closer acquaintance. This is the stage at which people announce that the country is going to the dogs, and that 'things are not what they were in my young days.' The things which not the same as it was in that far-off time is the speaker's curiosity. And with the death of curiosity we may reckon that active intelligence, also has died.

**Question Description**

The passage seems to make use of analogy to make its point. Select from the options given below the pair of subjects that aptly illustrates the use of analogy.

**A**

curiosity and knowledge

**B**

children and adults

**C**

cat and children

**D**

old age and view of past

**E**

None of the above

**Correct Answer**

C

**Marks**

1

56	<b>Question Description</b>	On which date is World Paper Bag Day celebrated?
	<b>A</b>	July 12
	<b>B</b>	June 12
	<b>C</b>	May 12
	<b>D</b>	April 12
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

57	<b>Question Description</b>	In which city was India's first Vedic-themed park unveiled?
	<b>A</b>	Faizabad
	<b>B</b>	Jhansi
	<b>C</b>	Noida
	<b>D</b>	Pune
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

58	<b>Question Description</b>	Which two countries are hosting the FIFA Women's Football World Cup - 2023?
	<b>A</b>	Kenya and Australia
	<b>B</b>	India and Australia
	<b>C</b>	Sri Lanka and New Zealand
	<b>D</b>	Australia and New Zealand
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

59	<b>Question Description</b>	Operation 'Broader Sword' to combat illegal trade is a joint operation between which two countries?
	<b>A</b>	India and USA
	<b>B</b>	Mexico and USA
	<b>C</b>	India and Nepal
	<b>D</b>	USA and Ukraine
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

60	<b>Question Description</b>	When is World Elephant Day observed?
	<b>A</b>	August 12
	<b>B</b>	September 5
	<b>C</b>	August 13
	<b>D</b>	October 20
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

61	<b>Question Description</b>	India has banned the export of which cereal?
	<b>A</b>	Moong Dal
	<b>B</b>	Pearl Millet
	<b>C</b>	Non-Basmati white rice
	<b>D</b>	Wheat
	<b>E</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

62	<b>Question Description</b>	Which country won the 2023 FIFA Women's World Cup?
	<b>A</b>	Spain
	<b>B</b>	England
	<b>C</b>	Germany
	<b>D</b>	Sweden
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

63	<b>Question Description</b>	Where was the world-famous Shravani Mela inaugurated?
	<b>A</b>	Deoghar
	<b>B</b>	Mumbai
	<b>C</b>	Hyderabad
	<b>D</b>	Haridwar
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

64	<b>Question Description</b>	Who is the chairperson of the 19-member National Syllabus and Teaching Learning Material Committee (NSTC) established by NCERT to revise textbooks for classes 3 to 12?
	<b>A</b>	Sudha Murthy
	<b>B</b>	Sanjeev Sanyal
	<b>C</b>	Shankar Mahadevan
	<b>D</b>	MC Pant
	<b>E</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

65	<b>Question Description</b>	Which state government has doubled the insurance cover under the Pradhan Mantri Jan Arogya Yojana (PMJAY)?
	<b>A</b>	Gujarat
	<b>B</b>	Andhra Pradesh
	<b>C</b>	Bihar
	<b>D</b>	Meghalaya
	<b>E</b>	None of the above
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

66

<b>Question Description</b>	In a class, there are 36 very tall boys. If these constitute three-fourths of the boys and the total number of boys is two-thirds of the total number of students in the class, what is the total number of girls in the class?
<b>A</b>	36
<b>B</b>	72
<b>C</b>	24
<b>D</b>	48
<b>E</b>	None of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1

67

**Question Description**

Select the correct combination of mathematical signs to replace \* signs and to balance the following equation:

$$8 * 8 * 1 * 7 = 8$$

A  $\times \div +$    B  $+ \times \div$    C  $\div \times +$    D  $+ \times \div$

A

A

B

B

C

C

D

D

E

None of the above

**Correct Answer**

C

**Marks**

1

68

**Question Description**

Find the missing number

3 14 33 60 ?

**A**

99

**B**

90

**C**

100

**D**

95

**E**

None of the above

**Correct Answer**

D

**Marks**

1

69

**Question Description**

Directions: These questions are based on the following information, read the comprehension carefully to answer the given questions.

Eight persons A, B, C, D, E, F, G and H live on eight different floors from bottom to top such as ground floor is numbered as 1 and top floor is numbered as 8.

C lives on an even numbered floor. Only three people live between C and D. Only five persons live between H and E, and both live on odd numbered floors and H lives above C. Both F and G live above A. F lives somewhere above G. H lives above B. Three persons live between A and B, who lives on an even numbered floor.

Four of the following five are alike in a certain way and so form a group. Find the one which does not belong to that group?

**A**

D

**B**

A

**C**

C

**D**

F

**E**

None of the above

**Correct Answer**

D

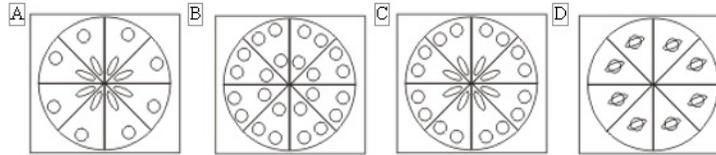
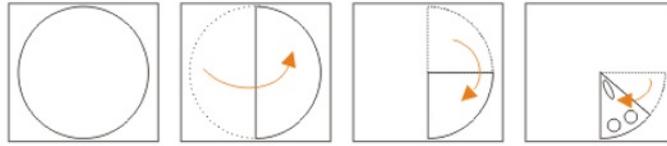
**Marks**

1

70

**Question Description**

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



A

A

B

B

C

C

D

D

E

None of the above

**Correct Answer**

C

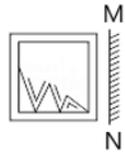
**Marks**

1

71

**Question Description**

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



A



B



C



D



A

A

B

B

C

C

D

D

E

None of the above

**Correct Answer**

D

**Marks**

1

72

**Question Description**

Directions: When a word and number arrangement machine is given an input line of words and numbers, it rearranges them following a particular logic at each step. Below given is an illustration of the same.

Input: grief 37 myth 84 rubbish 53 constant 45 persistence 26

Step I: persistence 26 grief 37 myth 84 rubbish 53 constant 45

Step II: constant 37 persistence 26 grief myth 84 rubbish 53 45

Step III: rubbish 45 constant 37 persistence 26 grief myth 84 53

Step IV: myth 53 rubbish 45 constant 37 persistence 26 grief 84

Step V: grief 84 myth 53 rubbish 45 constant 37 persistence 26

Step V is the last step of the arrangement.

On the basis of above illustration find the various steps of arrangement for the input given below.

Input: label 51 rhythm 22 sabotage 82 complete 91 sufficiency 16

What is the position of 'sabotage' with respect to '91' in step V?

**A**

Second to the left

**B**

Immediate right

**C**

Second to the right

**D**

Third to the left

**E**

None of the above

**Correct Answer**

B

**Marks**

1

73

**Question Description**

Select the missing from the given alternatives:

7	4	3	?	31
8	3	5	4	52
9	3.5	2	4	?

**A** 2 and 51**B** 4 and 40**C** 2.5 and 24**D** 2.5 and 32**E** None of the above**Correct Answer** D**Marks** 1

74	<b>Question Description</b>	<p>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.</p> <p>Statements :</p> <p>Only a few teachers are doctors.  0% teachers are lawyers.</p> <p>Conclusions :</p> <p>I. All lawyers are teachers.  II. Some doctors are not lawyers.</p>
A		If only conclusion I follow
B		If only conclusion II follow
C		If neither conclusion I nor conclusion II follows
D		If both the conclusions follow
E		None of the above
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

75

**Question Description**

**Directions: Read the paragraph carefully and answer the question given below.**

There are reportedly about 70,000 public libraries in India, many already or nearly defunct. The Centre and State governments must share the blame for this plight. It has been some time since a Union or State budget set aside a meaningful amount for improving library infrastructure. The onus falls squarely on the Government to make sure its people, especially students and the poor, have enough avenues to sit together, read and learn.

**Which of the following statements strengthen the argument for the government being responsible for investing in public libraries?**

I. Libraries help build an enlightened citizenry.

II. Private parties may not be interested in investing given the non-profit nature of libraries.

III. The government has limited budget capacity and most of this is utilized in important education related schemes which have a wider reach amongst the vulnerable sections.

**A** Only II

**B** Only III

**C** Only I and II

**D** Only I and III

**E** None of the above

**Correct Answer** C

**Marks** 1