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Computer Based Examination System

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Title *	Question Paper Answer Key
OES Exam *	GPSC13202003 Associate Professors in Pharmaceutical Chemistry Completed 2021-04-10

1	Question Description	¹ H NMR low resolution spectrum of Ethyl-N-methyl carbamate shows ____ signals; whereas in high resolution the N-CH ₃ absorption at δ ____ ppm is split in to _____.
	A	four, 2.78, doublet
	B	three, 3.64, doublet
	C	four, 2.82, triplet
	D	three, 3.33, triplet
	Correct Answer	A
	Marks	1

2	Question Description	If a molecule has two chloro- substituents and one bromo- substituent, the isotopic cluster peaks expected in the mass spectrum of such molecule has a ratio of ____
	A	3:7:5:1
	B	18:12:2
	C	9:15:7:1
	D	9:6:1:1:1
	Correct Answer	C
	Marks	1

3	Question Description	Which of the following intermediate can be trapped by Diels-Alder reaction while determining a reaction mechanism?
	A	Nitrene
	B	Benzyne
	C	Dichorocarbene
	D	Triphenyl methyl
	Correct Answer	B
	Marks	1

4	Question Description	Dexamethasone has the following functions at the positions of 20 - _____, 11- _____, 17- _____ and at 21- _____.
	A	oxo; beta-hydroxy; alpha-hydroxy; hydroxy
	B	oxo; alpha-hydroxy; alpha-hydroxy; alpha-hydroxy
	C	alpha-hydroxy; beta-hydroxy; alpha-hydroxy; beta-hydroxy
	D	beta-hydroxy; alpha-hydroxy; alpha-hydroxy; hydroxy
	Correct Answer	A
	Marks	1

5	Question Description	The compound 3-Dehydroretinol is ___
	A	Vitamin A
	B	Vitamin A ₁
	C	Vitamin A ₂
	D	Vitamin A ₃
	Correct Answer	C
	Marks	1

6	Question Description	Macrolides are basic in nature due to this specific substituent ----
	A	Dimethyl amino group on the lactone ring
	B	Dimethyl amino group on the sugar unit
	C	Hydroxyl group on the lactone ring
	D	Hydroxyl group on the sugar unit
	Correct Answer	B
	Marks	1

7	Question Description	Which of the following is NOT considered as a carbocations?
	A	adamantyl
	B	1-trishomobarrelyl
	C	Triphenyl methyl
	D	Dichlorocarbene
	Correct Answer	D
	Marks	1

8	Question Description	2,2,2-Trifluoro -1-imidazol-1-yl ethanaone and acetophenone are used as starting materials for the synthesis of
	A	Metronidazole
	B	Ketoconazole
	C	Miconazole
	D	Celecoxib
	Correct Answer	D
	Marks	1

9	Question Description	In the spectral region from 3300 to 3100 cm^{-1} , the N-H stretching mode of the -CO-NH- group in peptides appears as _____ band/s due to _____?
	A	one; N-H stretching vibration
	B	one; C-N stretching vibration
	C	two: N-H stretching vibration and its coupling with overtone of N-H deformation mode
	D	two: N-H stretching vibration and its coupling with overtone of C-N stretching mode
	Correct Answer	C
	Marks	1

10	Question Description	Which of the following antihistaminic agents is a non sedating H ₁ receptor antagonist?
	A	Cetirizine
	B	Loratadine
	C	Chlorpheniramine
	D	Doxylamine
	Correct Answer	B
	Marks	1

11	Question Description	Identify this organic reactive intermediate, in which the central atom is electron - deficient, has a sextet of electrons and sp ² hybridized & planar in shape.
	A	Nitrene
	B	Carbene
	C	Carbocation
	D	Carbanion
	Correct Answer	A
	Marks	1

12	Question Description	Which of the following conditions is NOT true as per Saytzeff's rule?
	A	Doesn't apply when the base is bulky
	B	Doesn't apply when the leaving group is poor
	C	May not apply when conjugated dienes might be formed
	D	Applies only when less substituted alkenes are formed
	Correct Answer	D
	Marks	1

13	Question Description	Which of the following NSAID's has the ability for rapid reversible binding followed by covalent modification of COX-1 and COX-2?
	A	Ibuprofen
	B	Diclofenac
	C	Aspirin
	D	Indomethacin
	Correct Answer	C
	Marks	1

14	Question Description	Which of the following statement is NOT true with respect to the effect on pharmacodynamics of some chiral drugs?
	A	S-Timolol is more potent α – blocker than R-Timolol
	B	D-propranolol is β - i blocker while L- form is inactive
	C	S-ibuprofen is active form while R- Ibuprofen is inactive form
	D	L-Sotalol is β - i blocker while D-Sotalol is not.
	Correct Answer	B
	Marks	1
15	Question Description	Which of the following is an example for the slow and prolonged release (sustained drug action) where the drug has a half life of 6-8 hours and the prodrug has duration of activity about a month?
	A	Betamethasone disodium phosphate
	B	Phenylbutazone
	C	Fluphenazine deconate
	D	Chloramphenicol palmitate
	Correct Answer	C
	Marks	1

16	Question Description	Aryl allyl ethers undergo [3,3]-sigmatropic rearrangement on heating to allyl phenols is known as
	A	Claisen rearrangement
	B	Hoffman rearrangement
	C	Favroskii rearrangement
	D	Bayer-Villiger reaction
	Correct Answer	A
	Marks	1
17	Question Description	Which of the following statement is not correct with respect to the effect on pharmacokinetics of some stereo active drugs?
	A	L-Methotrexate is better absorbed than D-methpotrexate
	B	Racemic omeprazole is more bioavailable than Esomeprazole
	C	S-Warfarin has lower volume of distribution(V_d) than R-warfarin
	D	Levocetirizine has smaller V_d than its dextroisomer
	Correct Answer	B
	Marks	1

18	Question Description	Reserpine solutions on keeping for long time under day light loses its green colour due to formation of ____
	A	3-Dehydroreserpine
	B	3-Isoreserpine
	C	Reserpic acid
	D	3-Deserpidine
	Correct Answer	A
	Marks	1
19	Question Description	In which of the rearrangement reactions, an alkyl group migrates with its bonding pair, to an electron deficient carbon atom?
	A	Dakin Reaction
	B	Hoffman rearrangement
	C	Wagner Meerwein rearrangement
	D	Bayer-Villiger reaction
	Correct Answer	C
	Marks	1

20	Question Description	In the corticosteroids, the substituent that significantly decreases mineralocorticoid activity is _
	A	9-alpha-chloro
	B	21-hydroxy
	C	2-alpha-methyl
	D	16-alpha-hydroxy
	Correct Answer	D
	Marks	1

21	Question Description	2-Chloro-10 <i>H</i> -phenothiazine when reacted with 1-(3-chloro propyl)-4-methyl piperazine in presence of Sodamide yields
	A	Prochlorperazine
	B	Chlorpromazine
	C	Quinacrine
	D	Promazine
	Correct Answer	A
	Marks	1

22	Question Description	Synthesis of which the following compounds involve 2-bromo-1-(2,4-dichlorophenyl) ethanone and propane-1,2,3-triol as the starting materials?
	A	Metronidazole
	B	Ketoconazole
	C	Celecoxib
	D	Metamizole
	Correct Answer	B
	Marks	1

23	Question Description	2-Bromo-1-(2,4-dichlorophenyl) ethanone upon reaction with 1 <i>H</i> -Imidazole and reduction with NaBH ₄ followed by treatment with 2,4-dichloro-1-(bromomethyl)benzene yields
	A	Metronidazole
	B	Ketoconazole
	C	Miconazole
	D	Chlorpromazine
	Correct Answer	C
	Marks	1

24	Question Description	Which of the following antihistaminic agents is used for its antiemetic action in the prevention of nausea and vomiting in pregnancy?
	A	Diphenhydramine
	B	Doxylamine
	C	Chlorpheniramine
	D	Fexofenadine
	Correct Answer	B
	Marks	1
25	Question Description	Which of the following statement is true with respect to the effect on pharmacokinetics of some stereo active drugs?
	A	D-Methotrexate is better absorbed than L-methpotrexate
	B	Esomeprazole is more bioavailable than Racemic omeprazole
	C	R-Warfarin has lower volume of distribution(V_d) than S-warfarin
	D	Levocetizine has greater Volume of distribution(V_d) than its dextroisomer
	Correct Answer	B
	Marks	1

26	Question Description	Which among the following is the most active pressor amine among ephedrine isomers?
	A	L (-) Ephedrine
	B	L (+) Ephedrine
	C	D (+) Ephedrine
	D	D (-) Ephedrine
	Correct Answer	D
	Marks	1
27	Question Description	As per USP Columns listed, L 10 refers to_.
	A	Dihydroxypropane groups chemically bonded to porous silica particles: 3 to 10 μm in diameter
	B	A rigid spherical styrene divinyl benzene copolymer: 5 to 10 μm in diameter
	C	Nitrile groups (CN) chemically bonded to porous silica particles: 3 to 10 μm in diameter
	D	Porous silica particles: 1.5 to 10 μm in diameter
	Correct Answer	C
	Marks	1

28	Question Description	Condensation of an ester of dialkylglycollic acid with urea in the presence of sodium ethylate followed by N-alkylation with alkyl sulphates gives rise to_____
	A	3,5,5-trialkyloxazolidine-2,4,-dione
	B	3,5,5-trialkylpyrazol-1,4-dione
	C	3,5,5-trialkylisoxazolidine-1,4-dione
	D	3,5,5-trialkylpyrazolin-1,4-dione
	Correct Answer	A
	Marks	1

29	Question Description	Identify the following rearrangement in which benzaldehyde or acetophenone bearing hydroxyl substituent in the <i>ortho</i> or <i>para</i> position proceed to yield catechol or quinol respectively.
	A	Pinacol rearrangement
	B	Hoffmann rearrangement
	C	Wagner –Meerwein rearrangement
	D	Dakin reaction
	Correct Answer	D
	Marks	1

30	<p>Question Description</p> <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>Correct Answer</p> <p>Marks</p>	<p>Which of the following NSAID's is an example for the drug that has rapid competitive binding of COX-1 and COX-2?</p> <p>Ibuprofen</p> <p>Diclofenac</p> <p>Aspirin</p> <p>Indomethacin</p> <p>A</p> <p>1</p>
31	<p>Question Description</p> <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>Correct Answer</p> <p>Marks</p>	<p>Which among the following statements is NOT true with regard to hydromorphone?</p> <p>Hydromorphone is 7,8-dihydromorphone</p> <p>The structural unit provides flexibility to permit efficacious hydrogen bond between 6-ketone and mu (μ)receptor</p> <p>Presence of OH group at 14-β-OH increases analgesic action at least 12 folds with respect to morphine</p> <p>Hydromorphone risks are comparable to that of morphine and includes respiratory depression and constipation</p> <p>C</p> <p>1</p>

32	Question Description	The thiazolium ring of aneurine breaks down on reaction with_
	A	Alkaline potassium ferricyanide
	B	Sodium hydroxide
	C	Hydrochloric acid
	D	Nitric acid
	Correct Answer	B
	Marks	1

33	Question Description	A hexose deoxy sugar cladinose present in Erythromycin-A, has a molecular mass of ____
	A	161
	B	172
	C	176
	D	191
	Correct Answer	C
	Marks	1

34	Question Description	Which of the following rearrangement provides an effective method for the synthesis of primary aliphatic and aromatic amines from primary amides?
	A	Pinacol rearrangement
	B	Hoffmann rearrangement
	C	Wagner –Meerwein rearrangement
	D	Dakin reaction
	Correct Answer	B
	Marks	1
35	Question Description	Ethers undergoing [1,2]sigmatropic rearrangement in the presence of strong base such as amide ion or phenyl lithium to give more stable oxyanion is known as
	A	Pinacol rearrangement
	B	Hoffmann rearrangement
	C	Wagner –Meerwein rearrangement
	D	Wittig rearrangement
	Correct Answer	D
	Marks	1

36	Question Description	Which among the following structural modifications in morphine produces a derivative that has increased activity as an analgesic compound (compared to morphine)?
	A	Methylation of the phenolic -OH group
	B	Methylation of the alcoholic -OH group
	C	Dealkylation of tertiary nitrogen
	D	Oxidation of alcoholic -OH to keto group
	Correct Answer	B
	Marks	1
37	Question Description	Which among the following statements is incorrect with regard to properties of pure tocopherols?
	A	They are oxidized readily by ferric salts, mild oxidizing agents and by air in presence of alkali.
	B	They are activated rapidly by exposure to ultraviolet light.
	C	Their antioxidant property for fixed oils is found in the following decreasing order of effectiveness δ -, γ -, β -, α - ϵ
	D	They are destroyed by the accumulating fat peroxides that are decomposed by them.
	Correct Answer	B
	Marks	1

38	Question Description	Which among the following is considered as a morphinan analogue of morphine?
	A	Codeine
	B	Levorphanol
	C	Heroin
	D	Pentazocine
	Correct Answer	B
	Marks	1

39	Question Description	The lone methylene unit in 4-methyl-2-pentanone shows a peak in the ^{13}C NMR spectrum at δ ____ ppm.
	A	22.8
	B	25.0
	C	38.4
	D	53.0
	Correct Answer	D
	Marks	1

40	Question Description	Which of the following is an example for the prodrug to enhance the solubility?
	A	Betamethasone disodium phosphate
	B	Phenylbutazone
	C	Fluphenazine deconate
	D	Chloramphenicol palmitate
	Correct Answer	C
	Marks	1
41	Question Description	Discovered first as an anticancer agent and later found to possess broad spectrum activity against DNA viruses with chemical name of 9-b-D-arabinofuranosyladenine is ____
	A	Ribavirine
	B	Inosiplex
	C	Vidarabine
	D	Idoxuridine
	Correct Answer	C
	Marks	1

42	Question Description	Which of the following anticancer drug obtained from plant source is a topoisomerase inhibitor and acts on G ₂ Phase?
	A	Paclitaxel
	B	Etoposide
	C	Vinblastine
	D	Vinorelbine
	Correct Answer	B
	Marks	1
43	Question Description	This pyrimidinone analogue, binds with integrase, a viral enzyme essential to the replication of both HIV-1 and HIV-2. By doing so, it inhibits strand transfer, the third and final step of provirus integration, thus interfering with the integration of reverse-transcribed HIV DNA into the chromosomes of host cells.
	A	Zidovudine
	B	Delavirdine
	C	Ritonavir
	D	Raltegravir
	Correct Answer	D
	Marks	1

44	Question Description	To prevent rapid degradation of N-formimidoyl derivative of thienamycin by renal dipeptidase enzyme, co-administration of this enzyme inhibitor drug _____ is recommended?
	A	Imipenem
	B	Cilastatin
	C	Cefipime
	D	Betamipron
	Correct Answer	B
	Marks	1

45	Question Description	Which of the following organic reactive intermediate is involved in Wolff rearrangement?
	A	Nitrene
	B	Carbene
	C	Carbocation
	D	Carbanion
	Correct Answer	B
	Marks	1

46	Question Description	This thymidine analogue, a NRTI gets phosphorylated in the host cells to triphosphate and selectively inhibits viral reverse transcriptase.
	A	Zidovudine
	B	Delavirdine
	C	Ritonavir
	D	Raltegravir
	Correct Answer	A
	Marks	1
47	Question Description	In which of the following conditions H ₂ receptor blockers cannot be used effectively?
	A	Peptic Ulcer
	B	GERD (Gastro Esophagul Reflux Disease)
	C	Zollinger Ellison syndrome
	D	Insomnia and anxiety for sedation
	Correct Answer	D
	Marks	1

48	Question Description	Which among the following statements is not true with regard to the properties of Ascorbic acid?
	A	Acidic character is due to the two enolic hydroxyls, the C-3 hydroxyl that has pKa of 4.9 and the C-2 hydroxyl that has pKa of 9.2
	B	Ascorbic acid cannot be synthesized in primates due to lack of the liver microsomal enzyme L-gulonolactone oxidase
	C	Aqueous solution of ascorbic acid is not very stable and can undergo oxidation under aerobic conditions.
	D	Ascorbic acid is chemically [1,2-Dihydroxyethyl]-3,4-dihydroxyfuran-2(5H)-one
	Correct Answer	A
	Marks	1
49	Question Description	Which among the following is not a component of ergotoxine?
	A	Ergocristine
	B	Ergocryptine
	C	Ergocine
	D	Ergocornine
	Correct Answer	C
	Marks	1

50

Question Description	Which among the following is a prodrug for ampicillin?
A	Benzathine penicillin
B	Pivampicillin
C	Ticarcillin
D	Piperacillin
Correct Answer	B
Marks	1

51

Comprehension

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

Arnold Toynbee said about Ramakrishna that 'his religious activity and experience were comprehensive to a degree that had perhaps never before been attained by any other religious genius in India or elsewhere'. You will hear only echoes of such words if you go through some recent works on Ramakrishna published in the West. What is most important in all works for the dissemination of Vedanta philosophy in its bearings on the idea of universal religion is to affirm, without any reservation, that this ideal does not touch any religion as it exists but only urges a universal approach to all religions. By universal religion, Vivekananda meant this mingling of faiths and he thought it was Vedanta, particularly Advaita Vedanta, which could bring about this mingling of spiritual tunes in a grand harmony of faiths.

Question Description

The statement, 'his religious activity and experience were comprehensive to a degree that had perhaps never before been attained by any other religious genius in India or elsewhere', implies that as a religious genius, his religious activity and experience were

A probably the first, and so far, the most comprehensive in the world

B likely to be the most comprehensive in India and elsewhere

C those which few others had attained in the past in India or elsewhere

D perhaps the best and comprehensive attainments in the world

Correct Answer

A

Marks

1

52

Comprehension

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

Arnold Toynbee said about Ramakrishna that 'his religious activity and experience were comprehensive to a degree that had perhaps never before been attained by any other religious genius in India or elsewhere'. You will hear only echoes of such words if you go through some recent works on Ramakrishna published in the West. What is most important in all works for the dissemination of Vedanta philosophy in its bearings on the idea of universal religion is to affirm, without any reservation, that this ideal does not touch any religion as it exists but only urges a universal approach to all religions. By universal religion, Vivekananda meant this mingling of faiths and he thought it was Vedanta, particularly Advaita Vedanta, which could bring about this mingling of spiritual tunes in a grand harmony of faiths.

Question Description

Identify from the following options, the most crucial thing for Vedanta philosophy, mentioned in the passage:

A

insistence on its dissemination without reservation

B

affirmation of its universal approach to religion

C

emphasis on its bearing on universal religion

D

affirmation of ideal religion as its exists

Correct Answer

B

Marks

1

Comprehension

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

Arnold Toynbee said about Ramakrishna that 'his religious activity and experience were comprehensive to a degree that had perhaps never before been attained by any other religious genius in India or elsewhere'. You will hear only echoes of such words if you go through some recent works on Ramakrishna published in the West. What is most important in all works for the dissemination of Vedanta philosophy in its bearings on the idea of universal religion is to affirm, without any reservation, that this ideal does not touch any religion as it exists but only urges a universal approach to all religions. By universal religion, Vivekananda meant this mingling of faiths and he thought it was Vedanta, particularly Advaita Vedanta, which could bring about this mingling of spiritual tunes in a grand harmony of faiths.

Question Description

Identify from the following options, the antonym of the word 'dissemination' as it is used in the passage:

A

dissipation

B

proclamation

C

extirpation

D

propagation

Correct Answer

C

Marks

1

54

Comprehension

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

Arnold Toynbee said about Ramakrishna that 'his religious activity and experience were comprehensive to a degree that had perhaps never before been attained by any other religious genius in India or elsewhere'. You will hear only echoes of such words if you go through some recent works on Ramakrishna published in the West. What is most important in all works for the dissemination of Vedanta philosophy in its bearings on the idea of universal religion is to affirm, without any reservation, that this ideal does not touch any religion as it exists but only urges a universal approach to all religions. By universal religion, Vivekananda meant this mingling of faiths and he thought it was Vedanta, particularly Advaita Vedanta, which could bring about this mingling of spiritual tunes in a grand harmony of faiths.

Question Description

Identify the word that is farthest in meaning to the word 'echo' from the options given below:

A

reflection

B

reproduction

C

reverberation

D

facsimile

Correct Answer

D

Marks

1

Comprehension

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

Arnold Toynbee said about Ramakrishna that 'his religious activity and experience were comprehensive to a degree that had perhaps never before been attained by any other religious genius in India or elsewhere'. You will hear only echoes of such words if you go through some recent works on Ramakrishna published in the West. What is most important in all works for the dissemination of Vedanta philosophy in its bearings on the idea of universal religion is to affirm, without any reservation, that this ideal does not touch any religion as it exists but only urges a universal approach to all religions. By universal religion, Vivekananda meant this mingling of faiths and he thought it was Vedanta, particularly Advaita Vedanta, which could bring about this mingling of spiritual tunes in a grand harmony of faiths.

Question Description

From the options provided below, select the one that comes closest in meaning to the phrase 'grand harmony' in the sense it is used in the passage:

A

magnificent consonance of faiths

B

great concord of all religions

C

impressive accord of religions

D

awe-inspiring unison of all faiths

Correct Answer

A

Marks

1

56	Question Description	Which country has recently been renamed as 'The Kingdom of eswatini'?
	A	zambia
	B	soloman island
	C	marshall island
	D	Swaziland
	Correct Answer	D
	Marks	1
57	Question Description	In 2021, the theme of Global Recycling Day is "_____".
	A	Air pollution
	B	Time for nature
	C	Plastic pollution
	D	Recycling Heroes
	Correct Answer	D
	Marks	1

58

Question Description

Name the woman officer who was included in BSF as the first woman Combat Officer of India?

A

Devika Pathak

B

Tejaswini Ojha

C

Priyanka Gaikwad

D

Tanushree Pareek

Correct Answer

D

Marks

1

59

Question Description

Where is "Sher Shah's Tomb" located?

A

Delhi

B

Ajmer

C

Lahore

D

Sasaram

Correct Answer

D

Marks

1

60	Question Description	Where is "Paunar Ashram" established by VinobaBhave located?
	A	Maharashtra
	B	Rajasthan
	C	Bihar
	D	Gujarat
	Correct Answer	A
	Marks	1

61	Question Description	Indo-Pak Baglihar Project is located on which one of the following rivers?
	A	Jhelum
	B	Sutlej
	C	Diameter
	D	Chenab
	Correct Answer	D
	Marks	1

62	Question Description	Which bank has fined Rs 2 crore for paying commission to employees?
	A	Punjab National Bank
	B	State Bank of India
	C	Union Bank of India
	D	Central Bank of India
	Correct Answer	B
	Marks	1

63	Question Description	Which of the following is a non metal that remains liquid at room temperature?
	A	Phosphorous
	B	Bromine
	C	Chlorine
	D	Helium
	Correct Answer	B
	Marks	1

64	Question Description	How much is one decalitre?
	A	10 kilolitre
	B	10 litre
	C	100 litre
	D	10 centilitre
	Correct Answer	B
	Marks	1
65	Question Description	Who is the originator of the tree plantation festival known as 'Van Mahotsav' in India?
	A	Jawaharlal Nehru
	B	VinobaBhave
	C	K.R. M. Munshi
	D	Mahatma Gandhi
	Correct Answer	C
	Marks	1

Question Description

In each of the question below are given four statements followed by four conclusions numbered I, II III and IV You have to take the given statements to be true even if they seem to be at variance from commonly known facts Read all the conclusions and then decide which of the given conclusions logically follows from the given statement disregarding commonly known facts.

Statements:

Some trains are cars.
All cars are branches
All branches are nets
Some nets are dresses

Conclusions:

- I. Some dresses are cars.
- II. Some nets are trains.
- III. Some branches are trains.
- IV. Some dresses are trains.

A Only I and III follow

B Only II and III follow

C Only I and IV follow

D Only II III and IV follow

Correct Answer B

Marks 1

Question Description

In making decisions about important questions, it is desirable to be able to distinguish between ‘strong’ arguments and ‘weak’ arguments ‘Weak’ arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question

Each question below is followed by three arguments numbered (A) (B) and (C) You have to decide which of the arguments is a ‘strong’ argument and which is a ‘weak’ argument.

Statement:

Should there be a cap on drawing groundwater for irrigation purposes in India?

Arguments:

- A. No irrigation is of prime importance for food production in India and it is heavily dependent on groundwater in many parts of the country.
- B. Yes, water tables have gone down to alarmingly low levels in some parts of the country where irrigation is primarily dependent on ground water, which may lead to serious environmental consequences.
- C. Yes, India just cannot afford to draw groundwater any further as the international agencies have cautioned India against it.

A Only (A) and (B) are strong

B Only (B) and (c) are strong

C Only (A) and (C) are strong

D All (A), (B) and (C) are strong

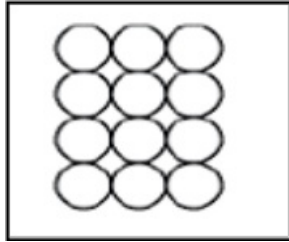
Correct Answer A

Marks 1

68

Question Description

In the given figure, if the centres of all the circles are joined by horizontal and vertical lines, then find the number of squares that can be formed.

**A** 1**B** 7**C** 8**D** 6**Correct Answer** C**Marks** 1

69 **Question Description** Find a pair that has similar relationship to run: jog

A Frog: catch

B Chicken: eat

C Rain: drizzle

D Swim: dive

Correct Answer C

Marks 1

70 **Question Description** Seby has 6 vehicles, of which 3 vehicles are blue in color. One of the vehicle is SUV
Which of the following statement is true

A Seby has blue SUV

B Seby has 3 cars

C Seby's favorite colour is blue

D None of the above

Correct Answer D

Marks 1

71

Question Description

Olive oil is more expensive than the coconut oil but is cheaper than the groundnut oil
Coconut oil is more expensive than the sunflower oil but is cheaper than the soya oil
Among the three oils, sunflower oil is the cheapest
If the first two statements are true then the third statement is

A

True

B

False

C

Uncertain

D**Correct Answer**

A

Marks

1

Question Description

Direction: In the following question, a statement is given followed by two conclusions. Choose the correct option.

Statement: Any student who follow un-ethical practices in examination disqualifies himself from examinations

Conclusion:

- I. Those who involve in un-ethical practices in examination shall be debarred
- II. Examination system should be improved.

A

Only Conclusion (I) follows

B

Both Conclusion (I) and (II) follow

C

Neither Conclusion (I) or (II) follows

D

Only Conclusion (II) follows

Correct Answer

A

Marks

1

73

Question Description

Below given question has a main statement followed by four statements labelled A, B, C and D. Choose the ordered pair of statements, where the first statement implies the second and the two statements are logically consistent with the main statement.

You cannot catch the bus unless it is morning.

- (A) This is morning.
- (B) You can catch the bus.
- (C) This is not morning.
- (D) You cannot catch the bus.

A

BD

B

AC

C

CB

D

CD

Correct Answer

D

Marks

1

74

Question Description

Here are some words translated from artificial language

Zakumoty means advisement

Maluzaku means misadvise

Malubrey means misconduct

Which word could mean “argument”

A

motybrey

B

kolomoty

C

malumoty

D

breymoty

Correct Answer

B

Marks

1

75

Question Description	If KITE is coded as JHSD, how is FLY coded?
A	EKX
B	EKZ
C	IKX
D	IKZ
Correct Answer	A
Marks	1