

Computer Based Examination System

Exported On *	2021/04/13 13:13:34
Title *	Question Paper Answer Key
OES Exam *	GPSC01202117 Assistant Professors in Government College in Zoology Completed 2021-04-11

1	<b>Question Description</b>	Measuring Biochemical Oxygen Demand (BOD) is a method used for
	<b>A</b>	Measuring the activity of <i>Saccharomyces cerevisiae</i> in producing curd on a commercial scale
	<b>B</b>	Working out the efficiency of R.B.Cs. about their capacity to carry oxygen
	<b>C</b>	Estimating the amount of organic matter in sewage water
	<b>D</b>	Working out the efficiency of oil driven automobile engines
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

2

<b>Question Description</b>	What is Ubiquitin?
<b>A</b>	Protein kinase
<b>B</b>	Protease
<b>C</b>	Component of the electron transport system
<b>D</b>	Protein that tags another protein for proteolysis
<b>Correct Answer</b>	D
<b>Marks</b>	1

3

<b>Question Description</b>	Which one of the following is not a bioindicator of water pollution?
<b>A</b>	Blood worms
<b>B</b>	Sludge worms
<b>C</b>	Sewage
<b>D</b>	Stone flies
<b>Correct Answer</b>	A
<b>Marks</b>	1

4	<b>Question Description</b>	..... state has got highest standing crop of seaweeds in India
	<b>A</b>	Gujarat
	<b>B</b>	Tamil Nadu
	<b>C</b>	Maharashtra
	<b>D</b>	Orissa
	<b>Correct Answer</b>	B
	<b>Marks</b>	1
5	<b>Question Description</b>	The species of mackerel found rarely along the southeast coast is
	<b>A</b>	Rastrelligerkanagurta
	<b>B</b>	<i>Rastrelligerbrachysoma</i>
	<b>C</b>	Rastrelligerfaughnii
	<b>D</b>	None of the above
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

6

**Question Description** FOAM is associated with

**A** STDs

**B** STP

**C** MTP

**D** MOET

**Correct Answer** B

**Marks** 1

7

**Question Description** The major gear used to exploit tunas from the Indian coastal waters

**A** Drift gill nets

**B** Trawlers

**C** Purse seines

**D** Trolling

**Correct Answer** A

**Marks** 1

8

<b>Question Description</b>	Balbani rings are found in
<b>A</b>	Heterosome
<b>B</b>	Lampbrush chromosome
<b>C</b>	Autosome
<b>D</b>	Polytenechromsome
<b>Correct Answer</b>	D
<b>Marks</b>	1

9

<b>Question Description</b>	Which of the compounds are responsible for accelerated eutrophication
<b>A</b>	Sulphates
<b>B</b>	Nitrates
<b>C</b>	Phosphates
<b>D</b>	Both b and c
<b>Correct Answer</b>	D
<b>Marks</b>	1

10	<b>Question Description</b>	Name the type of culture which is prepared by inoculating directly the tissue of an organism to culture media?
	<b>A</b>	Primary cell culture
	<b>B</b>	Secondary cell culture
	<b>C</b>	Cell lines
	<b>D</b>	Transformed cell culture
	<b>Correct Answer</b>	A
	<b>Marks</b>	1
11	<b>Question Description</b>	<i>Choodavalai</i> used to exploit the Whitebaits from southwest coast of India is a type of
	<b>A</b>	Gill net
	<b>B</b>	Shore seine
	<b>C</b>	Ring seine
	<b>D</b>	Bag net
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

12	<b>Question Description</b>	Which of the following statements regarding cyclin-dependent protein kinase is not correct?
	<b>A</b>	Their activity is regulated by cyclins
	<b>B</b>	They can alter the activity of proteins involve in the progression of cells through cell cycle
	<b>C</b>	Their activity fluctuates during cell cycle
	<b>D</b>	Each type of cell contains one specific form
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

13	<b>Question Description</b>	The two gases making highest relative contribution to the greenhouse gases are
	<b>A</b>	CO <sub>2</sub> and N <sub>2</sub> O
	<b>B</b>	CO <sub>2</sub> and CH <sub>4</sub>
	<b>C</b>	CH <sub>4</sub> and N <sub>2</sub> O
	<b>D</b>	CFC <sub>5</sub> and N <sub>2</sub> O
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

14	<b>Question Description</b>	$(p+q)^2 = p^2 + 2pq + q^2 = 1$ represents an equation used in
	<b>A</b>	population genetics
	<b>B</b>	Mendilian genetics
	<b>C</b>	biometircs
	<b>D</b>	molecular genetics.
	<b>Correct Answer</b>	A
	<b>Marks</b>	1
15	<b>Question Description</b>	Shell of egg in bird becomes thin (not properly formed) due to the pollution of pesticides. This is due to interference in the activity of:
	<b>A</b>	Calmodulin
	<b>B</b>	Mg ATPase
	<b>C</b>	Ca ATPase
	<b>D</b>	None of these
	<b>Correct Answer</b>	C
	<b>Marks</b>	1



16	<b>Question Description</b>	In which phase of cell cycle is DNA replicated?
	<b>A</b>	G <sub>1</sub> phase
	<b>B</b>	S phase
	<b>C</b>	G <sub>2</sub> phase
	<b>D</b>	M phase
	<b>Correct Answer</b>	B
	<b>Marks</b>	1
17	<b>Question Description</b>	The maximum production of Chinese pomfret is from the state of
	<b>A</b>	Karnataka
	<b>B</b>	Kerala
	<b>C</b>	Maharashtra
	<b>D</b>	Orissa
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

18	<b>Question Description</b>	“Ontogeny recapitulates phylogeny” the biogenetic law was put forward by
	<b>A</b>	Ernst Haeckel
	<b>B</b>	Oparin and Haldane
	<b>C</b>	Charles Darwin
	<b>D</b>	Alfred Wallace
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

19	<b>Question Description</b>	Methane gas is produced in fields like
	<b>A</b>	Wheat field
	<b>B</b>	Paddy field
	<b>C</b>	Cotton field
	<b>D</b>	Groundnut field
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

20	<b>Question Description</b>	At the end of each phase of cell cycle cyclins activating Cdks in that phase are inactivated irreversibly by _____
	<b>A</b>	Multiple phosphorylations
	<b>B</b>	De-phosphorylation
	<b>C</b>	Ubiquitinylation
	<b>D</b>	Destabilizing by proteolysis in a proteosome
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

21	<b>Question Description</b>	An extant taxon that cosmetically resemble ancestral species known only from the fossil record is called a
	<b>A</b>	Endangered species
	<b>B</b>	Living Fossil
	<b>C</b>	Missing link
	<b>D</b>	Extinct species
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

22	<b>Question Description</b>	In an area where DDT had been used extensively, the population of birds declined significantly because
	<b>A</b>	Cobras were feeding exclusively on birds
	<b>B</b>	Birds laid eggs with thin shells
	<b>C</b>	Birds stopped laying eggs
	<b>D</b>	Earthworms in the area got eradicated
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

23	<b>Question Description</b>	The species having topmost production in the world is
	<b>A</b>	Peruvian anchoveata
	<b>B</b>	Alaskan Pollock
	<b>C</b>	Chub mackerel
	<b>D</b>	Blue Whiting
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

24	<b>Question Description</b>	At which cell cycle checkpoint, cell cycle is halted if cell's DNA is damaged?
	<b>A</b>	$G_1 - S$
	<b>B</b>	$S - G_2$
	<b>C</b>	$G_2 - M$
	<b>D</b>	$G_0 - G_1$
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

25	<b>Question Description</b>	Which of the following statements regarding cyclins is not correct?
	<b>A</b>	They can become linked to ubiquitin
	<b>B</b>	They catalyze the phosphorylation of protein
	<b>C</b>	They contain a specific amino acid sequence that target them for proteolysis
	<b>D</b>	They are activated and degraded during cell cycle
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

26	<b>Question Description</b>	The horseshoe crab is an example of a/an
	<b>A</b>	Transitional Fossil
	<b>B</b>	Living Fossil
	<b>C</b>	Missing link
	<b>D</b>	Extinct species
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

27	<b>Question Description</b>	Common indicator organism of water pollution is:
	<b>A</b>	<i>Entamoeba histolytica</i>
	<b>B</b>	<i>Escherichia coli</i>
	<b>C</b>	<i>Eichhorniacrassipes</i>
	<b>D</b>	<i>Lemnapaucicostata</i>
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

28	<b>Question Description</b>	Bird eggs are
	<b>A</b>	Telolecithal
	<b>B</b>	Mesolecithal
	<b>C</b>	Isolecithal
	<b>D</b>	Alecithal
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

29	<b>Question Description</b>	Passage of a cell through stages of cell cycle is controlled by a protein kinase that phosphorylates many different proteins at appropriate times.
	<b>A</b>	Cdk activating kinase
	<b>B</b>	Cyclin-dependent kinase
	<b>C</b>	Cyclins
	<b>D</b>	Tyrosine kinase
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

30

<b>Question Description</b>	Cdk2/cyclinE functions in _____
<b>A</b>	G <sub>2</sub> /M transition
<b>B</b>	G <sub>2</sub>
<b>C</b>	M
<b>D</b>	G <sub>1</sub> /S transition
<b>Correct Answer</b>	D
<b>Marks</b>	1

31

<b>Question Description</b>	The Indian marine fisheries sector is characterized by.....
<b>A</b>	Multigear fisheries
<b>B</b>	Multispecies fisheries
<b>C</b>	Multigear & multispecies fisheries
<b>D</b>	none of the above
<b>Correct Answer</b>	C
<b>Marks</b>	1



32	<b>Question Description</b>	The dominant species of ribbon fish occurring in the ribbon fish landings is
	<b>A</b>	Trichiuruslepturus
	<b>B</b>	Trichiurusrusseli
	<b>C</b>	Lepturocanthussavala
	<b>D</b>	Lepturocanthusgangeticus
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

33	<b>Question Description</b>	Trichoderma harzianum has proved a useful microorganism for
	<b>A</b>	Reclamation of wastelands
	<b>B</b>	Bioremediation of contaminated soils
	<b>C</b>	Biological control of soil-borne plant pathogens
	<b>D</b>	Gene transfer in higher plants
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

34	<b>Question Description</b>	Which one of the following is a wrong statement?
	<b>A</b>	Greenhouse effect is a natural phenomenon
	<b>B</b>	Eutrophication is a natural phenomenon in freshwater bodies
	<b>C</b>	Most of the forests have been lost in tropical areas
	<b>D</b>	Ozone in upper part of atmosphere is harmful to animals
	<b>Correct Answer</b>	A
	<b>Marks</b>	1
35	<b>Question Description</b>	Which of the following occurs in meiosis but not in mitosis?
	<b>A</b>	Attachment of spindle fibers to kinetochore
	<b>B</b>	Replication of DNA prior to start of cell division
	<b>C</b>	Separation of sister chromatids at anaphase
	<b>D</b>	Pairing of homologous chromosomes at metaphase plate
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

36	<b>Question Description</b>	What is a cell line?
	<b>A</b>	Multilayer culture
	<b>B</b>	Transformed cells
	<b>C</b>	primary cultures
	<b>D</b>	Characterized sub cultures from primary cultures
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

37	<b>Question Description</b>	.....net is popularly used to exploit the Bombay duck along northwest coast of India.
	<b>A</b>	Disco net
	<b>B</b>	Rampani
	<b>C</b>	Long line
	<b>D</b>	None of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

38	<b>Question Description</b>	Name the cell line of the human embryonic lung?
	<b>A</b>	HeLa
	<b>B</b>	WISH
	<b>C</b>	L
	<b>D</b>	MRC-5
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

39	<b>Question Description</b>	Best example of a totipotent cell is
	<b>A</b>	Hematopoietic stem cell
	<b>B</b>	Oval cell
	<b>C</b>	Zygote
	<b>D</b>	Blastula
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

40 **Question Description** Catch per unit effort data gives a measure of

**A** Relative stock abundance

**B** Absolute stock abundance

**C** Fishing effort

**D** None of the above

**Correct Answer** A

**Marks** 1

41 **Question Description** This structure tends to vanish always during meiosis and mitosis

**A** A. Plastids

**B** B. Plasma membrane

**C** C. Nucleolus and nuclear membrane

**D** D. All of these

**Correct Answer** C

**Marks** 1

42	<b>Question Description</b>	dB is a standard abbreviation used for the quantitative expression of
	<b>A</b>	The dominant Bacillus in a culture
	<b>B</b>	The density of bacteria in a medium
	<b>C</b>	A certain pesticide
	<b>D</b>	A particular pollutant
	<b>Correct Answer</b>	D
	<b>Marks</b>	1
43	<b>Question Description</b>	That the first form of life on earth could have come from pre-existing non-living organic molecules was proposed by.
	<b>A</b>	S.L. Miller
	<b>B</b>	Oparin and Haldane
	<b>C</b>	Charles Darwin
	<b>D</b>	Alfred Wallace
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

44	<b>Question Description</b>	The characteristic of this stage of mitosis is the separation of the sister chromatids
	<b>A</b>	Telophase
	<b>B</b>	Metaphase
	<b>C</b>	Prometaphase
	<b>D</b>	Anaphase
	<b>Correct Answer</b>	D
	<b>Marks</b>	1
45	<b>Question Description</b>	The following state has the highest marine fish production in India.
	<b>A</b>	Maharashtra
	<b>B</b>	Gujarat
	<b>C</b>	Kerala
	<b>D</b>	Tamil Nadu
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

46	<b>Question Description</b>	The example of deep sea shrimp is
	<b>A</b>	Metapenaeopsisjerryi
	<b>B</b>	Aristeusalcocki
	<b>C</b>	Penaeopsisjerryi
	<b>D</b>	All of the above
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

47	<b>Question Description</b>	Cyclin dependent kinases which control progression through cell cycle checkpoints are totally activated by which of the following?
	<b>A</b>	Binding to cyclin, plus phosphorylation by a Cdk activating protein kinase
	<b>B</b>	Binding to cyclins
	<b>C</b>	Phosphorylation by Cdk activating protein kinase
	<b>D</b>	Phosphorylation by a tyrosine kinase
	<b>Correct Answer</b>	A
	<b>Marks</b>	1



48	<b>Question Description</b>	Right aortic arch (IV) that gives rise to the systemic arch is seen in
	<b>A</b>	Mammals
	<b>B</b>	Birds
	<b>C</b>	Fishes
	<b>D</b>	Amphibians
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

49	<b>Question Description</b>	Which of the following is the characteristics of a normal cell?
	<b>A</b>	Anchorage independent
	<b>B</b>	Continuous cell lines
	<b>C</b>	Dependent on external growth factor
	<b>D</b>	No contact inhibition
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

50

<b>Question Description</b>	Scientific name of Frigate tuna is
<b>A</b>	Auxisthazard
<b>B</b>	Auxisrochei
<b>C</b>	Thunnustonggol
<b>D</b>	Katsuwonuspelamis
<b>Correct Answer</b>	A
<b>Marks</b>	1

51

**Comprehension**

Read the following passage and answer the questions given below:

The distinction between medicines and sensual drugs is simple. Sensual drugs are those that the body has no need for, but that give the user a strong sense of pleasure. Sensual drugs activate the brain's pleasure centres directly or activate them through chemical mimicry...The brain governs sensations, moods, thoughts and actions, not by a magical process but by an incredibly complex series of chemically regulated controls. These are easily upset by sensual drugs. This disturbance is apparent in the effects of the sensual drugs on the mechanism that controls pleasure and satisfaction. A drug user's craving for the brain's pleasure reflexes seems to be weakened by artificial stimulation... Information from the senses still reaches the brain, but the brain is unable to evaluate and interpret it as pleasure. In contrast, naturally attained pleasures enlarge the sense of satisfaction and can be repeated indefinitely.

**Question Description**

As compared to medicinal drugs, the sensual drugs are undesirable because first and foremost

**A**

they activate brain's pleasure centres

**B**

they upset the brain's control system

**C**

they are not needed by the body

**D**

they artificially stimulate the brain

**Correct Answer**

C

**Marks**

1

52

**Comprehension**

Read the following passage and answer the questions given below:

The distinction between medicines and sensual drugs is simple. Sensual drugs are those that the body has no need for, but that give the user a strong sense of pleasure. Sensual drugs activate the brain's pleasure centres directly or activate them through chemical mimicry...The brain governs sensations, moods, thoughts and actions, not by a magical process but by an incredibly complex series of chemically regulated controls. These are easily upset by sensual drugs. This disturbance is apparent in the effects of the sensual drugs on the mechanism that controls pleasure and satisfaction. A drug user's craving for the brain's pleasure reflexes seems to be weakened by artificial stimulation... Information from the senses still reaches the brain, but the brain is unable to evaluate and interpret it as pleasure. In contrast, naturally attained pleasures enlarge the sense of satisfaction and can be repeated indefinitely.

**Question Description**

Identify from the options provided below, the phrase that does not aptly relate to the functioning of sensual drugs

**A**

chemical mimicry

**B**

providing sense of pleasure

**C**

unnatural stimulation

**D**

magical process

**Correct Answer**

D

**Marks**

1

53

**Comprehension**

Read the following passage and answer the questions given below:

The distinction between medicines and sensual drugs is simple. Sensual drugs are those that the body has no need for, but that give the user a strong sense of pleasure. Sensual drugs activate the brain's pleasure centres directly or activate them through chemical mimicry...The brain governs sensations, moods, thoughts and actions, not by a magical process but by an incredibly complex series of chemically regulated controls. These are easily upset by sensual drugs. This disturbance is apparent in the effects of the sensual drugs on the mechanism that controls pleasure and satisfaction. A drug user's craving for the brain's pleasure reflexes seems to be weakened by artificial stimulation... Information from the senses still reaches the brain, but the brain is unable to evaluate and interpret it as pleasure. In contrast, naturally attained pleasures enlarge the sense of satisfaction and can be repeated indefinitely.

**Question Description**

A drug user's craving for pleasure reflexes is undermined due to

**A**

its artificial stimulation

**B**

weakening of the reflexes

**C**

failure of the brain to process sensations

**D**

all these

**Correct Answer**

D

**Marks**

1

54

**Comprehension**

Read the following passage and answer the questions given below:

The distinction between medicines and sensual drugs is simple. Sensual drugs are those that the body has no need for, but that give the user a strong sense of pleasure. Sensual drugs activate the brain's pleasure centres directly or activate them through chemical mimicry...The brain governs sensations, moods, thoughts and actions, not by a magical process but by an incredibly complex series of chemically regulated controls. These are easily upset by sensual drugs. This disturbance is apparent in the effects of the sensual drugs on the mechanism that controls pleasure and satisfaction. A drug user's craving for the brain's pleasure reflexes seems to be weakened by artificial stimulation... Information from the senses still reaches the brain, but the brain is unable to evaluate and interpret it as pleasure. In contrast, naturally attained pleasures enlarge the sense of satisfaction and can be repeated indefinitely.

**Question Description**

As against the pleasures from sensual drugs, the natural pleasures \_\_\_\_\_ Complete the above statement by choosing an appropriate option from those provided below:

**A**

are artificially stimulated

**B**

debilitate the pleasure reflexes

**C**

disturb mental processes

**D**

amplify the sense of satisfaction

**Correct Answer**

D

**Marks**

1

**Comprehension**

Read the following passage and answer the questions given below:

The distinction between medicines and sensual drugs is simple. Sensual drugs are those that the body has no need for, but that give the user a strong sense of pleasure. Sensual drugs activate the brain's pleasure centres directly or activate them through chemical mimicry...The brain governs sensations, moods, thoughts and actions, not by a magical process but by an incredibly complex series of chemically regulated controls. These are easily upset by sensual drugs. This disturbance is apparent in the effects of the sensual drugs on the mechanism that controls pleasure and satisfaction. A drug user's craving for the brain's pleasure reflexes seems to be weakened by artificial stimulation... Information from the senses still reaches the brain, but the brain is unable to evaluate and interpret it as pleasure. In contrast, naturally attained pleasures enlarge the sense of satisfaction and can be repeated indefinitely.

**Question Description**

Identify the nearest antonym for 'artificial stimulation', in the sense used in the passage

**A**

natural tranquilizer

**B**

manmade de-energiser

**C**

unnatural sedative

**D**

natural excitement

**Correct Answer**

A

**Marks**

1

56	<b>Question Description</b>	R. K. Laxman is a renowned
	<b>A</b>	Dance master
	<b>B</b>	Writer
	<b>C</b>	Cartoonist
	<b>D</b>	Journalis
	<b>Correct Answer</b>	C
	<b>Marks</b>	1
57	<b>Question Description</b>	The super computer 'PARAM' was developed by
	<b>A</b>	TATA
	<b>B</b>	IIT-Kharagpur
	<b>C</b>	IIT-Kanpur
	<b>D</b>	C-DAC
	<b>Correct Answer</b>	D
	<b>Marks</b>	1



58

<b>Question Description</b>	Marble is the metamorphosed form of
<b>A</b>	Shale
<b>B</b>	Basalt
<b>C</b>	Limestone
<b>D</b>	Sandstone
<b>Correct Answer</b>	C
<b>Marks</b>	1

59

<b>Question Description</b>	Jude Felix is a famous Indian player in which of the fields?
<b>A</b>	Volleyball
<b>B</b>	Tennis
<b>C</b>	Football
<b>D</b>	Hockey
<b>Correct Answer</b>	D
<b>Marks</b>	1

60	<b>Question Description</b>	What is the number of players in each volleyball team?
	<b>A</b>	6
	<b>B</b>	8
	<b>C</b>	10
	<b>D</b>	12
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

61	<b>Question Description</b>	In which of the following states Rawatbhata Nuclear Plant is situated?
	<b>A</b>	Rajasthan
	<b>B</b>	Gujarat
	<b>C</b>	Madhya Pradesh
	<b>D</b>	Tamil Nadu
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

62	<b>Question Description</b>	Where is the Sawai Jai Singh Stadium famous for cricket?
	<b>A</b>	Ajmer
	<b>B</b>	Bharatpur
	<b>C</b>	Jodhpur
	<b>D</b>	Jaipur
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

63	<b>Question Description</b>	Who invented the BALLPOINT PEN?
	<b>A</b>	Biro Brothers
	<b>B</b>	Waterman Brothers
	<b>C</b>	Bicc Brothers
	<b>D</b>	Write Brothers
	<b>Correct Answer</b>	A
	<b>Marks</b>	1

64	<b>Question Description</b>	Ryder Cup is associated with which sport
	<b>A</b>	Horse Race
	<b>B</b>	Football
	<b>C</b>	Cycling
	<b>D</b>	Golf
	<b>Correct Answer</b>	D
	<b>Marks</b>	1
65	<b>Question Description</b>	What was the theme of national science day of India for the year 2021?
	<b>A</b>	Women in Science
	<b>B</b>	Future of STI: Impact on Education Skills and Work
	<b>C</b>	Science and Technology for Specially Abled Persons
	<b>D</b>	Information Technology for Science Education
	<b>Correct Answer</b>	B
	<b>Marks</b>	1

66	<b>Question Description</b>	Which word does not belong to others
	<b>A</b>	Brake
	<b>B</b>	Clutch
	<b>C</b>	Truck
	<b>D</b>	Buspension
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

67	<b>Question Description</b>	In a memory test, a number is flashed on a screen for 3 seconds and four participants try to remember the number. Each of them recollects and writes a different number as given in the options below. Which of the number is most likely the flashed number?
	<b>A</b>	1800-9266
	<b>B</b>	1800-9336
	<b>C</b>	1800-9268
	<b>D</b>	1800-8266
	<b>Correct Answer</b>	A
	<b>Marks</b>	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 complete ban on setting up of thermal power plants in India?

**Arguments:**

- A. Yes, this is the only way to arrest further addition to environmental pollution.
- B. No, there is a huge shortage of electricity in most parts of the country and hence generation of electricity needs to be augmented.
- C. No many developed countries continue to set up thermal power plants in their countries.

**A** None is strong

**B** Only (A) is strong

**C** Only (B) is strong

**D** Only (C) is strong

**Correct Answer** C

**Marks** 1

69	<b>Question Description</b>	The perimeter of a rectangular field is 21 m and the length and the breadth are in the ratio 4:3. If poles are to be fixed along the boundary of this field by maintaining 1.5 m distance between adjacent poles, how many poles would be required?
	<b>A</b>	16
	<b>B</b>	15
	<b>C</b>	14
	<b>D</b>	20
	<b>Correct Answer</b>	C
	<b>Marks</b>	1

70	<b>Question Description</b>	Peter walks 2 km towards the south and then walks 1 km to his left. Finally, he turns to his right and walks 2 km. In which direction is he from the starting point?
	<b>A</b>	West
	<b>B</b>	South
	<b>C</b>	South-West
	<b>D</b>	South-East
	<b>Correct Answer</b>	D
	<b>Marks</b>	1

71

**Question Description**

John has to pay Rs. 5000 out of Rs. 6000 he earns each week towards his apartment rent. If John gets to keep Rs. 10000 this week, How much did he earn in total this week?

**A**

Rs 30000

**B**

Rs 60000

**C**

Rs 50000

**D**

None of these

**Correct Answer**

B

**Marks**

1

72



**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 pencils are kites  
Some kites are desks  
All desks are jungles  
All jungles are mountains

**Conclusions:**

- I. Some mountains are pencils
- II. Some jungles are pencils
- III. Some mountains are desks
- IV. Some jungles are kites

**A** Only I and III follow

**B** Only I II and III follows

**C** Only III and IV follow

**D** Only II III and IV follow

**Correct Answer** C

**Marks** 1

**Comprehension**

**Answer the questions based on the information given below.**

A country has the following types of traffic signals.

3 red lights = stop

2 red lights = turn left

1 red light = turn right

3 green lights = go at 100 km/hr speed

2 green lights = go at 40 km/hr speed

1 green light = go at 20 km/hr speed

A motorist starts at a point on a road and follows all traffic signals. His car is heading towards the north.

He encounters the following signals (the time mentioned in each case below is applicable after crossing the previous signal).

Starting point - 1 green light

After half an hour, 1st signal - 2 red and 2 green lights

After 15 min, 2nd signal - 1 red light

After half an hour, 3rd signal - 1 red and 3 green lights

After 24 min, 4th signal - 2 red and 2 green lights

After 15 min, 5th signal - 3 red lights

**Question Description**

The total distance travelled by the motorist from the starting point till the last signal is

**A**

90 km

**B**

100 km

**C**

120 km

**D**

None of these

**Correct Answer**

A

**Marks**

1

**Comprehension**

**Answer the questions based on the information given below.**

A country has the following types of traffic signals.

3 red lights = stop

2 red lights = turn left

1 red light = turn right

3 green lights = go at 100 km/hr speed

2 green lights = go at 40 km/hr speed

1 green light = go at 20 km/hr speed

A motorist starts at a point on a road and follows all traffic signals. His car is heading towards the north.

He encounters the following signals (the time mentioned in each case below is applicable after crossing the previous signal).

Starting point - 1 green light

After half an hour, 1st signal - 2 red and 2 green lights

After 15 min, 2nd signal - 1 red light

After half an hour, 3rd signal - 1 red and 3 green lights

After 24 min, 4th signal - 2 red and 2 green lights

After 15 min, 5th signal - 3 red lights

**Question Description**

What is the position (radial distance) of the motorist when he reaches the last signal?

**A**

45 km directly north of the starting point

**B**

30 km directly to the east of the starting point

**C**

50 km away to the north-east of the starting point

**D**

45 km away to the north-west of the starting point

**Correct Answer**

C

**Marks**

1

75

**Comprehension**

**Answer the questions based on the information given below.**

A country has the following types of traffic signals.

3 red lights = stop

2 red lights = turn left

1 red light = turn right

3 green lights = go at 100 km/hr speed

2 green lights = go at 40 km/hr speed

1 green light = go at 20 km/hr speed

A motorist starts at a point on a road and follows all traffic signals. His car is heading towards the north.

He encounters the following signals (the time mentioned in each case below is applicable after crossing the previous signal).

Starting point - 1 green light

After half an hour, 1st signal - 2 red and 2 green lights

After 15 min, 2nd signal - 1 red light

After half an hour, 3rd signal - 1 red and 3 green lights

After 24 min, 4th signal - 2 red and 2 green lights

After 15 min, 5th signal - 3 red lights

**Question Description**

After the starting point if the 1st signal were 1 red and 2 green lights, what would be the final position of the motorist?

**A**

30 km to the west and 20 km to the south

**B**

30 km to the west and 40 km to the north

**C**

50 km to the east and 40 km to the north

**D**

Directly 30 km to the east

<b>Correct Answer</b>	C
<b>Marks</b>	1