

NEET – 2020 Set – G2 Answers

1.
  - a) Darwin's Finches of Galapagos islands.
  - b) Herbicide resistant weeds
  - c) Drug resistant eukaryotes
  - d) Man-created breeds of domesticated animals like dogs
  - (1) (a) and (c)
  - (2) (b), (c) and (d)
  - (3) Only (d)
  - (4) Only (a)
2. Meiotic division of the secondary oocyte is completed:
  - (1) At the time of copulation
  - (2) After zygote formation
  - (3) At the time of fusion of a sperm with an ovum
  - (4) Prior to ovulation
3. Which of the following is correct about viroids?
  - (1) They have free RNA without protein coat
  - (2) They have DNA with protein coat
  - (3) They have free DNA without protein coat
  - (4) They have RNA with protein coat
4. The plant parts which consist of two generations- one within the other:
  - (a) Pollen grains inside the anther
  - (b) Germinated pollen grain with two male gametes
  - (c) Seed inside the fruit
  - (d) Embryo sac inside the ovule
  - (1) (a), (b) and (c)
  - (2) (c) and (d)
  - (3) (a) and (d)
  - (4) (a) only
5. Experimental verification of the chromosomal theory of inheritance was done by:
  - (1) Sutton
  - (2) Boveri
  - (3) Morgan
  - (4) Mendel
6. Which of the following pairs is of unicellular algae?
  - (1) *Gelidium* and *Gracilaria*
  - (2) *Anabaena* and *Volvox*
  - (3) *Chlorella* and *Spirulina*
  - (4) *Laminaria* and *Sargassum*
7. Secondary metabolites such as nicotine, strychnine and caffeine are produced by plants for their:
  - (1) Growth response
  - (2) Defence action
  - (3) Effect on reproduction
  - (4) Nutritive value
8. By which method was a new breed 'Hisardale' of sheep formed by using Bikaneri ewes and Marino rams?
  - (1) Mutational breeding
  - (2) Cross breeding
  - (3) Inbreeding
  - (4) Outbreeding
9. The infectious stage of *Plasmodium* that enters the human body is:
  - (1) Sporozoites
  - (2) Female gametocytes
  - (3) Male gametocytes
  - (4) Trophozoites
10. The process responsible for facilitating loss of water in liquid form from the tip of grass blades at night and in early morning is:
  - (1) Root pressure
  - (2) Imbibition
  - (3) Plasmolysis
  - (4) Transpiration
11. From his experiments, S.L. Miller produced amino acids by mixing the following in a closed flask:
  - (1) CH<sub>3</sub>, H<sub>2</sub>, NH<sub>4</sub> and water vapor at 800°C
  - (2) CH<sub>4</sub>, H<sub>2</sub>, NH<sub>3</sub> and water vapor at 600°C
  - (3) CH<sub>3</sub>, H<sub>2</sub>, NH<sub>3</sub> and water vapor at 600°C
  - (4) CH<sub>4</sub>, H<sub>2</sub>, NH<sub>3</sub> and water vapor at 800°C
12. In relation to Gross primary productivity and net primary productivity of an ecosystem, which one of the following statements is correct?
  - (1) Gross primary productivity is always more than net primary productivity
  - (2) Gross primary productivity and Net primary productivity are one and same
  - (3) There is no relationship between Gross primary productivity and Net primary productivity

(4) Gross primary productivity is always less than net primary productivity.

13. The sequence that controls the copy number of the linked DNA in the vector, is termed.

- (1) Ori site
- (2) Palindromic sequence
- (3) Recognition site
- (4) Selectable marker

14. Cuboidal epithelium with brush border of microvilli is found in:

- (1) Ducts of salivary glands
- (2) Proximal convoluted tubule of nephron
- (3) Eustachian tube
- (4) Lining of intestine

15. The body of the ovule is fused within the funicle at:

- (1) Micropyle
- (2) Nucellus
- (3) Chalaza
- (4) Hilum

16. In light reaction, plastoquinone facilitates the transfer of electrons from:

- (1) Cyt<sub>b</sub><sub>6</sub>f complex to PS-I
- (2) PS-I to NADP<sup>+</sup>
- (3) PS-I to ATP synthase
- (4) PS-II to Cyt<sub>b</sub><sub>6</sub>f complex

17. Match the following diseases with the causative organism and select the correct option:

	Column-I		Column-II
(a)	Typhoid	(i)	<i>Wuchereria</i>
(b)	Pneumonia	(ii)	<i>Plasmodium</i>
(c)	Filariasis	(iii)	<i>Salmonella</i>
(d)	Malaria	(iv)	<i>Haemophilus</i>

	(a)	(b)	(c)	(d)
(1)	(iii)	(iv)	(i)	(ii)
(2)	(ii)	(i)	(iii)	(iv)
(3)	(iv)	(i)	(ii)	(iii)
(4)	(i)	(iii)	(ii)	(iv)

18. Match the following columns and select the correct option:

	Column-I		Column-II
(a)	<i>Clostridium</i>	(i)	Cyclosporin-A

	<i>Butylicum</i>		
(b)	<i>Trichoderma Polysporum</i>	(ii)	Butyric acid
(c)	<i>Monascus purpureus</i>	(iii)	Citric acid
(d)	<i>Aspergillus niger</i>	(iv)	Blood cholesterol lowering agent

	(a)	(b)	(c)	(d)
(1)	(ii)	(i)	(iv)	(iii)
(2)	(i)	(ii)	(iv)	(iii)
(3)	(iv)	(iii)	(ii)	(i)
(4)	(iii)	(iv)	(ii)	(i)

19. Which of the following statements are true for the phylum-Chordata?

- a) In Urochordata notochord extends from head to tail and it is present throughout their life.
  - b) In Vertebrata notochord is present during the embryonic period only
  - c) Central nervous system is dorsal and hollow
  - d) Chordata is divided into 3 subphyla hemichordate, Tunicata and Cephalochordata.
- (1) (c) and (a)                      (2) (a) and (b)  
 (3) (b) and (c)                      (4) (d) and (c)

20. Goblet cells of alimentary canal are modified from:

- (1) Columnar epithelial cells
- (2) Chondrocytes
- (3) Compound epithelial cells
- (4) Squamous epithelial cells

21. Which of the following is not an inhibitory substance governing seed dormancy?

- (1) Abscisic acid
- (2) Phenolic acid
- (3) Para-ascorbic acid
- (4) Gibberellic acid

22. Name the enzyme that facilitates opening of DNA helix during transcription.

- (1) DNA helicase
- (2) DNA polymerase
- (3) RNA polymerase

(4) DNA ligase

23. Match the following:

	Column-I		Column-II
(a)	Inhibitor of catalytic activity	(i)	Ricin
(b)	Possess peptide bonds	(ii)	Malonate
(c)	Cell wall material in fungi	(iii)	Chitin
(d)	Secondary metabolite	(iv)	Collagen

	(a)	(b)	(c)	(d)
(1)	(iii)	(i)	(iv)	(ii)
(2)	(iii)	(iv)	(i)	(ii)
(3)	(ii)	(iii)	(i)	(iv)
(4)	(ii)	(iv)	(iii)	(i)

24. Bilaterally symmetrical and acoelomate animals are exemplified by:

- (1) Platyhelminthes
- (2) Aschelminthes
- (3) Annelida
- (4) Ctenophora

25. Presence of which of the following conditions in urine are indicative of Diabetes Mellitus?

- (1) Uremia and Renal Calculi
- (2) Ketonuria and Glycosuria
- (3) Renal calculi and Hyperglycaemia
- (4) Uremia and Ketonuria

26. Ray florets have:

- (1) Superior ovary
- (2) Hypogynous ovary
- (3) Half inferior ovary
- (4) Inferior ovary

27. Identify the substances having glycosidic bond and peptide bond, respectively in their structure:

- (1) Glycerol, trypsin
- (2) Cellulose, lecithin
- (3) Inulin, insulin
- (4) Chitin, cholesterol

28. Which of the following statements is not correct?

- (1) The proinsulin has an extra peptide called C-peptide.
- (2) The functional insulin has A and B chains linked together by hydrogen bonds.
- (3) Genetically engineered insulin is produced in *E.coli*.
- (4) In man insulin is synthesised as a proinsulin

29. Some dividing cells exit the cell cycle and enter vegetative inactive stage. This is called quiescent stage ( $G_0$ ). This process occurs at the end of:

- (1)  $G_1$  phase
- (2) S phase
- (3)  $G_2$  phase
- (4) M phase

30. Identify the correct statement with regard to  $G_1$  phase (Gap 1) of interphase:

- (1) Reorganisation of all cell components takes place.

- (2) Cell is metabolically active, grows but does not replicate its DNA

- (3) Nuclear Division takes place
- (4) DNA synthesis or replication takes place.

31. The QRS complex in a standard ECG represents:

- (1) Depolarisation of auricles
- (2) Depolarisation of ventricles
- (3) Repolarisation of ventricles
- (4) Repolarisation of auricles

32. If the distance between two consecutive base pairs is 0.34 nm and the total number of base pairs of a  $6.6 \times 10^9$  bp, then the length of the DNA is approximately:

- (1) 2.5 meters
- (2) 2.2 meters
- (3) 2.7 meters
- (4) 2.0 meters

33. Which of the following regions of the globe exhibits highest species diversity?

- (1) Madagascar
- (2) Himalayas
- (3) Amazon forests
- (4) Western Ghats of India

34. Which of the following is put into Anaerobic sludge digester for further sewage treatment?

- (1) Floating debris
- (2) Effluents of primary treatment
- (3) Activated sludge

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- (4) Primary sludge
35. Dissolution of the synaptonemal complex occurs during:
- (1) Zygotene (2) **Diplotene**  
 (3) Leptotene (4) Pachytene
36. Select the option including all sexually transmitted diseases.
- (1) Gonorrhoea, Malaria, Genital herpes  
 (2) AIDS, Malaria, Filariasis  
 (3) Cancer, AIDS, Syphilis  
 (4) **Gonorrhoea, Syphilis, Genital herpes**
37. Select the correct statement
- (1) Glucagon is associated with hypoglycemia  
 (2) Insulin acts on pancreatic cells and adipocytes.  
 (3) Insulin is associated with hyperglycemia  
 (4) **Glucocorticoids stimulate gluconeogenesis.**
38. The product(s) of reaction catalyzed by nitrogenase in root nodules of leguminous plants is/are:
- (1) Nitrate alone  
 (2) Ammonia and oxygen  
 (3) **Ammonia and hydrogen**  
 (4) Ammonia alone
39. In gel electrophoresis, separated DNA fragments can be visualized with the help of:
- (1) **Ethidium bromide in UV radiation**  
 (2) Acetocarmine in UV radiation  
 (3) Ethidium bromide in infrared radiation  
 (4) Acetocarmine in bright blue light
40. In which of the following techniques, the embryos are transferred to assist those females who cannot conceive?
- (1) GIFT and ZIFT  
 (2) ICSI and ZIFT  
 (3) GIFT and ICSI  
 (4) **ZIFT and IUT**

41. Select the correct match.

Column-I	Column-II
(1) Phenylketonuria	(i) Autosomal dominant trait

- (2) **Sickle cell anaemia** (ii) **Autosomal recessive trait, chromosome-II**  
 (3) Thalassemia (iii) X linked  
 (4) Haemophilia (iv) Y linked

42. Which of the following is not an attribute of a population?
- (1) Natality (2) Mortality  
 (3) **Species interaction** (4) Sex ratio
43. The oxygenation activity of RuBisCo enzyme in photorespiration leads to the formation of:
- (1) 1 molecule of 3-C compound  
 (2) 1 molecule of 6-C compound  
 (3) 1 molecule of 4-C compound and 1 molecule of 2-C compound  
 (4) 2 molecule

**Ans : The Question is incorrect, None is correct. But option 1 is partially correct, option 3 is also partly correct but has a wrong line '4C compound'. This Question should be cancelled)**

44. Match the following concerning essential elements and their functions in plants:

(a)	Iron	(i)	Photolysis of water
(b)	Zinc	(ii)	Pollen germination
(c)	Boron	(iii)	Required for chlorophyll biosynthesis
(d)	Manganese	(iv)	IAA biosynthesis

Select the correct option:

	(a)	(b)	(c)	(d)
(1)	(iv)	(iii)	(ii)	(i)
(2)	(iii)	(iv)	(ii)	(i)
(3)	(iv)	(i)	(ii)	(iii)
(4)	(ii)	(i)	(iv)	(iii)

45. Which is the important site of formation of glycoproteins and glycolipids in eukaryotic cells?
- (1) Peroxisomes  
 (2) **Golgi bodies**  
 (3) Polysomes  
 (4) Endoplasmic reticulum

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46. Select the correct events that occur during

inspiration:

- a) Contraction of diaphragm
- b) Contraction of external inter-costal muscles
- c) Pulmonary volume decreases
- d) Intra pulmonary pressure increases

- (1) (c) and (d)
- (2) (a), (b) and (d)
- (3) Only (d)
- (4) (a) and (b)

47. The roots that originate from the base of the stem are:

- (1) Primary roots
- (2) Prop roots
- (3) Lateral roots
- (4) Fibrous roots

48. The ovary is half inferior in:

- (1) Mustard
- (2) Sunflower
- (3) Plum
- (4) Brinjal

49. Match the following columns and select the correct option:

	Column-I		Column-II
(a)	Floating Ribs	(i)	Located between second and seventh ribs
(b)	Acromion	(ii)	Head of the Humerus
(c)	Scapula	(iii)	Clavicle
(d)	Glenoid cavity	(iv)	Do not connect with the sternum

	(a)	(b)	(c)	(d)
(1)	(i)	(iii)	(ii)	(iv)
(2)	(iii)	(ii)	(iv)	(i)
(3)	(iv)	(iii)	(i)	(ii)
(4)	(ii)	(iv)	(i)	(iii)

50. If the head of cockroach is removed, it may live for few days because:

- (1) The cockroach does not have nervous system
- (2) The head holds a small proportion of a nervous system while the rest is situated along the ventral part of its body.
- (3) The head holds a 1/3<sup>rd</sup> of a nervous system while the rest is situated along the dorsal part of its body
- (4) The supra-oesophageal ganglia of the cockroach are situated in ventral part of abdomen.

51. Identify the incorrect statement

- (1) Sapwood is involved in conduction of water and minerals from root of leaf.
- (2) Sapwood is the innermost secondary xylem and is lighter in colour
- (3) Due to deposition of tannins, resins, oils etc heart wood is dark in colour
- (4) Heart wood does not conduct water but gives mechanical support

52. Bt cotton variety that was developed by the introduction by the introduction of toxin gene of *Bacillus thuringiensis* (Bt) is resistant to:

- (1) Fungal diseases
- (2) Plant nematodes
- (3) Insect predators
- (4) Insect pests

53. The number of substrate level phosphorylations in one turn of citric acid cycle is

- (1) One
- (2) Two
- (3) Three
- (4) Zero

54. Identify the wrong statement with regard to Restriction Enzymes,

- (1) They cut the strand of DNA at palindromic sites
- (2) They are useful in genetic engineering
- (3) Sticky ends can be joined DNA ligases
- (4) Each restriction enzymes functions by inspecting the length of a DNA sequence.

**Comment:** This Question is also wrongly framed since all the statements are correct, there is no wrong statement as it is asked in the Question. But on a closer examination Statement 3 is the only one which is slightly indirectly related to Restriction enzyme. So, it seems that the examiner would choose option 3 as correct. Ideally, NTA should **CANCEL** this Question

55. Flippers of Penguins and Dolphins are examples of:

- (1) Convergent evolution
- (2) Industrial melanism
- (3) Natural selection
- (4) Adaptive radiation

56. Identify the **wrong** statement with reference to transport of oxygen

- (1) Partial pressure of CO<sub>2</sub> can interference with O<sub>2</sub> binding with haemoglobin
- (2) Higher H<sup>+</sup> conc. In alveoli favours the formation of oxyhaemoglobin
- (3) Low pCO<sub>2</sub> in alveoli favours the formation the formation of oxyhaemoglobin
- (4) Bindng of oxygen with haemoglobin is mainly related to partial pressure of O<sub>2</sub>

57. Identify the **wrong** statement with reference to the gene 'I' that controls ABO blood groups.

- (1) A person will have only two of the three alleles
- (2) When I<sup>A</sup> and I<sup>B</sup> are present together, they express same type of sugar
- (3) Allele 'I' does not produce any sugar
- (4) The gene 'I' has three alleles

58. Identify the basic amino acid from the following.

- (1) Glutamic Acid
- (2) Lysine
- (3) Valine
- (4) Tyrosine

59. Name the plant growth regulator which upon spraying on sugarcane crop, increases the length of stem, thus increasing the yield of sugarcane crop.

- (1) Gibberellin
- (2) Ethylene
- (3) Absciscic acid

(4) Cytokinin

60. Match the organism with its sue in biotechnology

(a)	<i>Bacillus thuringiensis</i>	(i)	Cloning vector
(b)	<i>Thermus aquaticus</i>	(ii)	Construction of first rDNA
(c)	<i>Agrobacterium tumefaciens</i>	(iii)	DNA polymerase
(d)	<i>Salmonella typhimurium</i>	(iv)	Cry proteins

Select the **correct** option from the following:

	(a)	(b)	(c)	(d)
(1)	(iv)	(iii)	(i)	(ii)
(2)	(iii)	(ii)	(iv)	(i)
(3)	(iii)	(iv)	(i)	(ii)
(4)	(ii)	(iv)	(iii)	(i)

61. Which of the following statements is **corrects**?

- (1) Adenine pairs with thymine through one H-bond
- (2) Adenine pairs with thymine through three H-bonds
- (3) Adenine does not pair with thymine
- (4) Adenine pairs with thymine through two H-bonds

62. Match the following columns and select the **correct** option.

	Column-I		Column-II
(a)	Gregarious, polyphagous pest	(i)	<i>Asterias</i>
(b)	Adult with radial symmetry and larva with hilateral symmetry	(ii)	<i>Scorpion</i>
(c)	Book lungs	(iii)	<i>Ctenoplana</i>
(d)	Bioluminescence	(iv)	<i>Locusta</i>

	(a)	(b)	(c)	(d)
(1)	(iv)	(i)	(ii)	(iii)
(2)	(iii)	(ii)	(i)	(iv)
(3)	(iii)	(i)	(iii)	(iv)
(4)	(ii)	(iii)	(ii)	(iv)

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63. Which of the following would help in prevention of diuresis?

- (1) **Reabsorption of Na<sup>+</sup> and water from renal tubules due to aldosterone**
- (2) Atrial natriuretic factor causes vasoconstriction
- (3) Decrease in secretion of renin by JG cells
- (4) More water reabsorption due to undersecretion of ADH

64. Choose the **correct** pair from the following:

- (1) Polymerases – Break the DNA into fragments
- (2) Nucleases – Separate the two strands of DNA
- (3) Exonucleases – Make cuts at specific positions within DNA
- (4) **Ligases – Join the two DNA molecules**

65. Identify the **correct** statement with reference to human digestive system

- (1) Serosa is the innermost layer of the alimentary canal
- (2) **Ileum is a highly coiled part**
- (3) Vermiform appendix arises from duodenum
- (4) Ileum opens into small intestine

66. Embryological support for evolution was disapproved by:

- (1) Alfred Wallace
- (2) Charles Darwin
- (3) Oparin
- (4) **Karl Ernst von Baer**

67. Which of the following hormone levels will cause release of ovum (ovulation) from the graffian follicle?

- (1) High concentration of Progesterone
- (2) Low concentration of LH
- (3) Low concentration of FSH
- (4) **High concentration of Estrogen**

68. The specific palindromic sequence which of recognized by EcoRI is :

- (1) 5' – GGAACC – 3'  
3' – CCTTGG – 5'
- (2) 5' – CTTAAG – 3'  
3' – GAATTC – 5'
- (3) 5' – GGATCC – 3'

3' – CCTAGG – 5'

- (4) 5' – GAATTC – 3'  
3' – CTTAAG – 5'

69. The first phase of translation is:

- (1) Recognition of DNA molecule
- (2) **Aminoacylation of tRNA**
- (3) Recognition of an anti-codon
- (4) Binding of mRNA to ribosome

70. Floridean starch has structure similar to:

- (1) **Amylopectin and glycogen**
- (2) Mannitom and algin
- (3) Laminarin and cellulose
- (4) Starch and cellulose

71. Strobili or cones are found in:

- (1) *Pteris*
- (2) *Marchantia*
- (3) *Equisetum*
- (4) *Salvinia*

72. How many true breeding pea plant varieties Mendel select as pairs, which were similar exp in one character with contrasting traits ?

- (1) 2
- (2) **14**
- (3) 8
- (4) 1

73. Snow -blindness in Antarctic region is due to:

- (1) **Inflammation of cornea due to high UV-B radiation**
- (2) High reflection of light from snow
- (3) Damage to retina caused by infra-red
- (4) Freezing of fluids in the eye by temperature

74. The enzyme enterokinase helps in conversion of :

- (1) **trypsinogen into trypsin**
- (2) caseinogen into casein
- (3) pepsinogen into pepsin
- (4) protein into polypeptides

75. match the following with respect to meiosis:

(a)	Zygotene	(i)	Terminalization
(b)	Pachytene	(ii)	Chiasmata
(c)	Diploene	(iii)	Crossing over

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(d)	Diakinesis	(iv)	Synapsis
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Select the **correct** option from the following:

	(a)	(b)	(c)	(d)
(1)	(iv)	(iii)	(ii)	(i)
(2)	(i)	(ii)	(iv)	(iii)
(3)	(ii)	(iv)	(iii)	(i)
(4)	(iii)	(iv)	(i)	(ii)

76. which of the following statements about inclusion bodies is **incorrect**?

- (1) These are involved in ingestion of food particles
- (2) They lie free in the cytoplasm
- (3) These represent reserve material in cytoplasm
- (4) They are not bound by any membrane

77. Match the following columns and select the **correct** option.

Column-I		Column-II	
(a)	Eosinophils	(i)	Immune response
(b)	Basophils	(ii)	Phagocytosis
(c)	Neutrophils	(iii)	Release histaminase, destructive enzymes
(d)	Lymphocytes	(iv)	Release granules containing histamines

	(a)	(b)	(c)	(d)
(1)	(iv)	(i)	(ii)	(iii)
(2)	(i)	(ii)	(iv)	(iii)
(3)	(ii)	(i)	(iii)	(iv)
(4)	(iii)	(iv)	(ii)	(i)

78. The transverse section of a plant shows following anatomical features:

- a) Large number of scattered vascular bundles surrounded by bundle sheath
- b) Large conspicuous parenchymatous ground tissue
- c) Vascular bundles conjoint and closed
- d) Phloem parenchyma absent

Identify the category of plant and its part:

- (1) Monocotyledonous root

- (2) Dicotyledonous stem
- (3) Dicotyledonous root
- (4) **Monocotyledonous stem**

79. Match the following columns and select the **correct** option.

Column-I		Column-II	
(a)	Pituitary gland	(i)	Grave's disease
(b)	Thyroid gland	(ii)	Diabetes mellites
(c)	Adrenal gland	(iii)	Diabetes insipidus
(d)	Pancreas	(iv)	Addison's disease

	(a)	(b)	(c)	(d)
(1)	(iii)	(ii)	(i)	(iv)
(2)	(iii)	(i)	(iv)	(ii)
(3)	(ii)	(i)	(iv)	(iii)
(4)	(iv)	(iii)	(i)	(ii)

80. Match the following columns and select the **correct** option:

Column-I		Column-II	
(a)	Placenta	(i)	Androgens
(b)	Zona pellucida	(ii)	Human Chorionic Gonadotropin
(c)	Bulbo-urethral glands	(iii)	Layer of the ovum
(d)	Leydig cells	(iv)	Lubrication of the penis

	(a)	(b)	(c)	(d)
(1)	(i)	(iv)	(ii)	(iii)
(2)	(iii)	(ii)	(iv)	(i)
(3)	(ii)	(iii)	(iv)	(i)
(4)	(iv)	(iii)	(i)	(ii)

81. In water hyacinth and water lily, pollination takes place by:

- (1) Water currents only
- (2) Wind and water
- (3) Insects and water
- (4) **Insects or wind**

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82. According to Robert May, the global species

diversity is about:

- (1) 20 million (2) 50 million  
 (3) 7 million (4) 1.5 million

83. Match the following columns and select the correct option:

Column-I			Column-II
(a)	6-15 pairs of gill slits	(i)	<i>Trygon</i>
(b)	Heterocercal caudal fin	(ii)	Cyclostomes
(c)	Air bladder	(iii)	Chondrichthyes
(d)	Poison sting	(iv)	Osteichthyes

	(a)	(b)	(c)	(d)
(1)	(iii)	(iv)	(i)	(ii)
(2)	(iv)	(ii)	(iii)	(i)
(3)	(i)	(iv)	(iii)	(ii)
(4)	(ii)	(iii)	(iv)	(i)

84. The process of growth is maximum during:

- (1) Lag phase  
 (2) Senescence  
 (3) Dormancy  
 (4) Log phase

85. Match the following columns and select the correct option:

Column-I			Column-II
(a)	Bt cotton	(i)	Gene therapy
(b)	Adenosine deaminase deficiency	(ii)	Cellular defence
(c)	RNAi	(iii)	Detection of HIV infection
(d)	PCR	(iv)	<i>Bacillus thuringiensis</i> ,

	(a)	(b)	(c)	(d)
(1)	(iii)	(ii)	(i)	(iv)
(2)	(ii)	(iii)	(iv)	(i)
(3)	(i)	(ii)	(iii)	(iv)
(4)	(iv)	(i)	(ii)	(iii)

86. Match the following columns and select the correct option:

Column-I			Column-II
(a)	Organ of Corti	(i)	Connects middle ear and pharynx
(b)	Cochlea	(ii)	Coiled part of the labyrinth
(c)	Eustachian tube	(iii)	Attached to the oval window
(d)	Stapes	(iv)	Located on the basilar membrane

	(a)	(b)	(c)	(d)
(1)	(iii)	(i)	(iv)	(ii)
(2)	(iv)	(ii)	(i)	(iii)
(3)	(i)	(ii)	(iv)	(iii)
(4)	(ii)	(iii)	(i)	(iv)

87. Which one of the following is the most abundant protein in the animals?

- (1) Collagen  
 (2) Lectin  
 (3) Insulin  
 (4) Hemoglobin

88. Identify the wrong statement with reference to immunity:

- (1) When ready-made antibodies are directly given, it is called "Passive immunity"  
 (2) Active immunity is quick and given full response.  
 (3) Foetus receives some antibodies from mother, it is an example for passive immunity,  
 (4) When exposed to antigen (living or dead antibodies are produced in the host's body it is called "Active immunity"

89. Montreal protocol was signed in 1987 for control of:

- (1) Emission of ozone depleting substances  
 (2) Release of Green House gases  
 (3) Disposal of e-wastes  
 (4) Transport of genetically modified organisms from one country to another

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90. Match the trophic levels with their correct species example in grassland ecosystem.

Column-I			Column-II
(a)	Fourth trophic level	(i)	Crow
(b)	Second trophic level	(ii)	Vulture
(c)	First trophic level	(iii)	Rabbit
(d)	Third trophic level	(iv)	Grass

	(a)	(b)	(c)	(d)
(1)	(iii)	(ii)	(i)	(iv)
(2)	(iv)	(iii)	(ii)	(i)
(3)	(i)	(ii)	(iii)	(iv)
(4)	(ii)	(iii)	(iv)	(i)

91. A screw gauge has least count of 0.01 mm and there are 50 divisions in its circular scale.

- (1) 0.25 mm
- (2) 0.5 mm
- (3) 1.0 mm
- (4) 0.01 mm

92. The mean free path for a gas, with molecular diameter  $d$  and number density  $n$  can be expressed as:

- (1)  $\frac{1}{\sqrt{2} n \pi d^2}$
- (2)  $\frac{1}{\sqrt{2} n^2 \pi d^2}$
- (3)  $\frac{1}{\sqrt{2} n^2 \pi^2 d^2}$
- (4)  $\frac{1}{\sqrt{2} n \pi d}$

93. Light of frequency 1.5 times the threshold frequency is incident on a photosensitive material. What will be the photoelectric current if the frequency is halved and intensity is doubled?

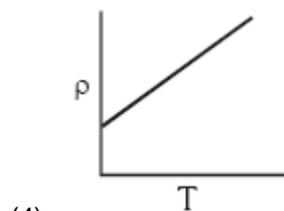
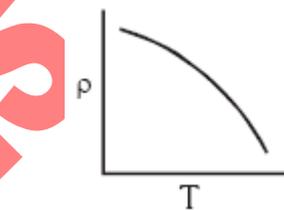
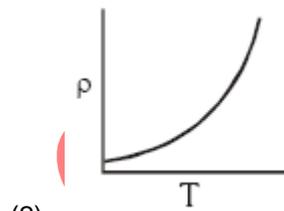
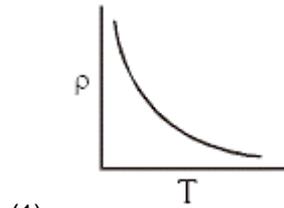
- (1) Four times
- (2) One-fourth
- (3) Zero
- (4) Doubled

94. In a certain region of space with volume  $0.2 \text{ m}^3$ , the electric potential is found to be 5V throughout. The magnitude of electric field in this region is:

- (1) 0.5 N/C

- (2) 1 N/C
- (3) 5 N/C
- (4) Zero

95. Which of the following graph represents the variation of resistivity ( $\rho$ ) with temperature ( $T$ ) for copper?



- (1) (2) (3) (4)

96. A wire of length  $L$  area of cross section  $A$  is hanging from a fixed support. The length of the wire changes to  $L_1$  when mass  $M$  is suspended from its free end. The expression for Young's modulus is

- (1)  $\frac{Mg(L_1-L)}{AL}$
- (2)  $\frac{MgL}{AL_1}$
- (3)  $\frac{MgL}{A(L_1-L)}$
- (4)  $\frac{MgL_1}{AL}$

97. In a guitar, two strings A and B made of same material are slightly out of tune and produce beats of frequency 6 Hz. When tension in B is slightly

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decreased, the beat frequency increases to 7 Hz. If the frequency of A is 530 Hz. The original frequency of B will be:

- (1) 524 Hz
- (2) 536 Hz
- (3) 537 Hz
- (4) 523 Hz

98. A 40  $\mu\text{F}$  capacitor is connected to a 200 V, 50 Hz ac supply, the rms value of the current in the circuit is, nearly:

- (1) 2.05 A
- (2) 2.5 A
- (3) 25.1 A
- (4) 1.7 A

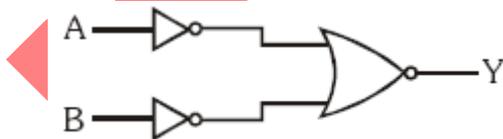
99. A ball is thrown vertically downward with a velocity of 20 m/s from the top of a tower. It hits the ground after some time with a velocity of 80 m/s. The height of the tower is: ( $g = 10 \text{ m/s}^2$ )

- (1) 340 m
- (2) 320 m
- (3) 300 m
- (4) 360 m

100. An electron is accelerated from rest through a potential difference of V volt. If the de Broglie wavelength of the electron is  $1.227 \times 10^{-2} \text{ nm}$ , the potential difference is:

- (1)  $10^2 \text{ V}$
- (2)  $10^3 \text{ V}$
- (3)  $10^4 \text{ V}$
- (4)  $10 \text{ V}$

101. For the logic circuit shown, the truth table is:



(1)	A	B	Y
	0	0	0
	0	1	1
	1	0	1
	1	1	1

(2)	A	B	Y
	0	0	1
	0	1	1
	1	0	1
	1	1	0
(3)	A	B	Y
	0	0	1
	0	1	0
	1	0	0
	1	1	0
(4)	A	B	Y
	0	0	0
	0	1	0
	1	0	0
	1	1	1

102. A short electric dipole has a dipole moment of  $16 \times 10^{-9} \text{ C m}$ . The electric potential due to the dipole at a point at a distance of 0.6 m from the centre of the dipole, situated on a line making an angle of  $60^\circ$  with the dipole axis is:

$$\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2/\text{C}^2$$

- (1) 200 V
- (2) 400 V
- (3) Zero
- (4) 50 V

103. An iron rod of susceptibility 599 is subjected to a magnetising field of  $1200 \text{ A m}^{-1}$ . The permeability of the material of the rod is:

$$(\mu_0 = 4\pi \times 10^{-7} \text{ T m A}^{-1})$$

- (1)  $8.0 \times 10^{-5} \text{ T m A}^{-1}$
- (2)  $2.4 \pi \times 10^{-5} \text{ T m A}^{-1}$
- (3)  $2.4 \pi \times 10^{-7} \text{ T m A}^{-1}$
- (4)  $2.4 \pi \times 10^{-4} \text{ T m A}^{-1}$

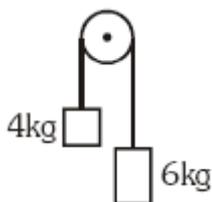
104. The increase in the width of the depletion region in a p-n junction diode is due to:

- (1) Reverse bias only
- (2) Both forward bias and reverse bias
- (3) Increase in forward current
- (4) Forward bias only

- 105.** A capillary tube of radius  $r$  is immersed in water and water rises in it to a height  $h$ . The mass of the water in the capillary is 5g. Another capillary tube of radius  $2r$  is immersed in water. The mass of water that will rise in this tube is:
- (1) 5.0 g
  - (2) **10.0 g**
  - (3) 20.0 g
  - (4) 2.5 g
- 106.** The energy equivalent of 0.5 g of a substance is:
- (1)  **$4.5 \times 10^{13}$  J**
  - (2)  $1.5 \times 10^{13}$  J
  - (3)  $0.5 \times 10^{13}$  J
  - (4)  $4.5 \times 10^{16}$  J
- 107.** The solids which have the negative temperature coefficient of resistance are:
- (1) Insulators only
  - (2) Semiconductors only
  - (3) **Insulators and semiconductors**
  - (4) Metals
- 108.** A ray is incident at an angle of incident  $i$  on one surface of a small angle prism (with angle of prism  $A$ ) and emerges normally from the opposite surface. If the refractive index of the material of the prism is  $\mu$ , then the angle of incidence is nearly equal to:
- (1)  $\frac{2A}{\mu}$
  - (2)  **$\mu A$**
  - (3)  $\frac{\mu A}{2}$
  - (4)  $\frac{A}{2\mu}$
- 109.** For which one of the following, Bohr model is not valid?
- (1) Singly ionized helium atom ( $\text{He}^+$ )
  - (2) Deuteron atom
  - (3) **Singly ionized neon atom ( $\text{Ne}^+$ )**
  - (4) Hydrogen atom
- 110.** Assume that light of wavelength 600 nm is coming from a star. The limit of resolution of telescope whose objective has a diameter of 2 m is:
- (1)  $1.83 \times 10^{-7}$  rad
  - (2)  $7.83 \times 10^{-7}$  rad
  - (3)  $6.00 \times 10^{-7}$  rad
  - (4)  **$3.66 \times 10^{-7}$  rad**
- 111.** A body weighs 72 N on the surface of the earth. What is the gravitational force on it, at a height equal to half the radius of the earth?
- (1) **32 N**
  - (2) 30 N
  - (3) 24 N
  - (4) 48 N
- 112.** A charged particle having drift velocity of  $7.5 \times 10^{-4}$  m s<sup>-1</sup> in an electric field of  $3 \times 10^{10}$  Vm<sup>-1</sup>, has a mobility in m<sup>2</sup> V<sup>-1</sup> s<sup>-1</sup> of:
- (1)  **$2.5 \times 10^6$**
  - (2)  $2.5 \times 10^{-6}$
  - (3)  $2.25 \times 10^{-15}$
  - (4)  $2.25 \times 10^{15}$
- 113.** For transistor action, which of the following statements is correct?
- (1) Base, emitter and collector regions should have same size.
  - (2) Both emitter junction as well as the collector junction are forward biased.
  - (3) **The base region must be very thin and lightly doped.**
  - (4) Base, emitter and collector regions should have same doping concentration.
- 114.** The capacitance of a parallel plate capacitor with air as medium is  $6 \mu\text{F}$ . With the introduction of a dielectric medium, the capacitance becomes  $30 \mu\text{F}$ . The permittivity of the medium is:
- ( $\epsilon_0 = 8.85 \times 10^{-12} \text{C}^2 \text{N}^{-1} \text{M}^{-2}$ )
- (1)  $1.77 \times 10^{-12} \text{C}^2 \text{N}^{-1} \text{m}^{-2}$
  - (2)  **$0.44 \times 10^{-12} \text{C}^2 \text{N}^{-1} \text{m}^{-2}$**
  - (3)  $5.00 \text{C}^2 \text{N}^{-1} \text{m}^{-2}$
  - (4)  $0.44 \times 10^{-13} \text{C}^2 \text{N}^{-1} \text{m}^{-2}$
- 115.** Taking into account of the significant figures, what is the value of  $9.99 \text{m} - 0.0099 \text{m}$ ?
- (1) **9.98 m**
  - (2) 9.980 m
  - (3) 9.9 m
  - (4) 9.9801 m

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116. Two bodies of mass 4 kg and 6 kg are tied to the ends of a massless string. The string passes over a pulley which is frictionless (see figure), The acceleration of the system in terms of acceleration due to gravity (g) is:



- (1)  $g/2$
- (2)  $g/5$
- (3)  $g/10$
- (4)  $g$

117. A cylinder contains hydrogen gas at pressure of 249 kPa and temperature  $27^\circ\text{C}$ .

Its density is: ( $R = 8.3 \text{ J mol}^{-1} \text{ K}^{-1}$ )

- (1)  $0.2 \text{ kg/m}^3$
- (2)  $0.1 \text{ kg/m}^3$
- (3)  $0.02 \text{ kg/m}^3$
- (4)  $0.5 \text{ kg/m}^3$

118. The ratio of contributions made by the electric field and magnetic field components to the intensity of an electromagnetic wave is: ( $c = \text{speed of electromagnetic waves}$ )

- (1)  $1 : 1$
- (2)  $1 : c$
- (3)  $1 : c^2$
- (4)  $c : 1$

119. A long solenoid of 50 cm length having 100 turns carries a current of 2.5 A. The magnetic field at the centre of the solenoid is:

$$(\mu_0 = 4\pi \times 10^{-7} \text{ T m A}^{-1})$$

- (1)  $3.14 \times 10^{-4} \text{ T}$
- (2)  $6.28 \times 10^{-5} \text{ T}$
- (3)  $3.14 \times 10^{-5} \text{ T}$
- (4)  $6.28 \times 10^{-4} \text{ T}$

120. In young's double slit experiment, if the separation between coherent sources is halved and the

distance of the screen from the coherent sources is doubled, then the fringe width becomes:

- (1) Half
- (2) **Four times**
- (3) One-fourth
- (4) Double

121. A resistance wire connected in the left gap of a metre bridge balances a  $10 \Omega$  resistance in the right gap at a point which divides the bridge with in the ratio 3 : 2 if the length of the resistance wire in 1.5 m, then the length of  $1 \Omega$  of the resistance wire is:

- (1)  $1.0 \times 10^{-1} \text{ m}$
- (2)  $1.5 \times 10^{-1} \text{ m}$
- (3)  $1.5 \times 10^{-2} \text{ m}$
- (4)  $1.0 \times 10^{-2} \text{ m}$

122. The energy required to break one bond in DNA is  $10^{-20} \text{ J}$ . This value in eV is nearly:

- (1) 0.6
- (2) **0.06**
- (3) 0.006
- (4) 6

123. When a uranium isotope  ${}_{92}^{235}\text{U}$  is bombarded with a neutrons, it generates  ${}_{36}^{89}\text{Kr}$ , three neutron and:

- (1)  ${}_{40}^{91}\text{Zr}$
- (2)  ${}_{36}^{101}\text{Kr}$
- (3)  ${}_{36}^{103}\text{kr}$
- (4)  **${}_{56}^{144}\text{Ba}$**

124. Two cylinders A and B of equal capacity are connected to each other via a stop cock. A contains an ideal gas at standard temperature and pressure B is completely evacuated. The entire system is thermally insulated, the stop cock is suddenly opened. The process is:

- (1) **Adiabatic**
- (2) Isochoric
- (3) Isobaric
- (4) Isothermal

125. Light with an average flux of  $20 \text{ W/cm}^2$  falls on a non-reflecting surface at normal incidence having surface area  $20 \text{ cm}^2$ . The energy received by the surface during time span on 1 minute is:

- (1)  $12 \times 10^3 \text{ J}$
- (2)  $24 \times 10^3 \text{ J}$
- (3)  $48 \times 10^3 \text{ J}$
- (4)  $10 \times 10^3 \text{ J}$

126. The quantities of heat required to raise the temperature of two solid copper spheres of radii  $r_1$  and  $r_2$  ( $r_1 = 1.5 r_2$ ) through 1 K are in the ratio:

- (1)  $\frac{9}{4}$
- (2)  $\frac{3}{2}$
- (3)  $\frac{5}{3}$
- (4)  $\frac{27}{8}$

127. The average thermal energy for a mono-atomic gas is : ( $k_B$  is Boltzmann constant and T, absolute temperature)

- (1)  $\frac{3}{2} k_B T$
- (2)  $\frac{5}{2} k_B T$
- (3)  $\frac{7}{2} k_B T$
- (4)  $\frac{1}{2} k_B T$

128. A series LCR circuit is connected to an ac voltage source. When L is removed from the circuit, the phase difference between current and voltage is  $\frac{\pi}{3}$ . If instead C is removed from the circuit, the phase difference is again  $\frac{\pi}{3}$  between current and voltage.

The power factor of the circuit is:

- (1) 0.5
- (2) 1.0
- (3) -1.0
- (4) Zero

129. Two particles of mass 5 kg and 10 kg respectively are attached to the two ends of a rigid rod of length 1 m with negligible mass.

The centre of mass of the system from the 5 particle is nearly at a distance of

- (1) 50 cm

- (2) 67 cm

- (3) 80 cm

- (4) 33 cm

130. The phase difference between displacement and acceleration of a particle in a simple harmonic motion is:

- (1)  $\frac{3\pi}{2}$  rad
- (2)  $\frac{\pi}{2}$  rad
- (3) Zero
- (4)  $\pi$  rad

131. The Brewsters angle  $i_b$  for an interface should be:

- (1)  $30^\circ < i_b < 45^\circ$
- (2)  $45^\circ < i_b < 90^\circ$
- (3)  $i_b = 90^\circ$
- (4)  $0^\circ < i_b < 30^\circ$

132. Dimensions of stress are:

- (1)  $[ML^2 T^{-2}]$
- (2)  $[ML^0 T^{-2}]$
- (3)  $[ML^{-1} T^{-2}]$
- (4)  $[MLT^{-2}]$

133. The color code of a resistance is given below:



The values resistance and tolerance, respectively, are:

- (1)  $47 \text{ K}\Omega$ , 10%
- (2)  $4.7 \text{ K}\Omega$ , 5%
- (3)  $470 \Omega$ , 5%
- (4)  $470 \text{ k}\Omega$ , 5%

134. A spherical conductor of radius 10 cm has a charge of  $3.2 \times 10^{-7} \text{ C}$  distributed uniformly. What is the magnitude of electric field at a point 15 cm from the centre of the sphere?

$$\left( \frac{1}{4\pi\epsilon_2} = 9 \times 10^9 \text{ N m}^2/\text{C}^2 \right)$$

- (1)  $1.28 \times 10^5 \text{ N/C}$
- (2)  $1.28 \times 10^6 \text{ N/C}$
- (3)  $1.28 \times 10^7 \text{ N/C}$

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(4)  $1.28 \times 10^4 \text{ N/C}$ 

135. Find the torque about the origin when a force of  $3\hat{j} \text{ N}$  acts on a particle whose position vector is  $2\hat{k} \text{ m}$ .

- (1)  $6\hat{j} \text{ Nm}$
- (2)  $-6\hat{i} \text{ Nm}$
- (3)  $6\hat{k} \text{ Nm}$
- (4)  $6\hat{j} \text{ Nm}$

136. The mixture which shows positive deviation from Raoult's law is:

- (1) Benzene + Toluene
- (2) Acetone + Chloroform
- (3) Chloroethane + Bromoethane
- (4) Ethanol + Acetone

137. Which of the following is not correct about carbon monoxide?

- (1) It reduces oxygen carrying ability of blood.
- (2) The carboxyhaemoglobin (haemoglobin bound to CO) is less stable than oxyhaemoglobin.
- (3) It is produced due to incomplete combustion
- (4) It forms carboxyhaemoglobin

138. The number of Faradays (F) required to produce 20 g of calcium from molten  $\text{CaCl}_2$  (Atomic mass of Ca =  $40 \text{ g mol}^{-1}$ ) is:

- (1) 2
- (2) 3
- (3) 4
- (4) 1

139. Hydrolysis of sucrose is given by the following reaction.



If the equilibrium constant ( $K_e$ ) is  $2 \times 10^{13}$  at 300 K, the value of  $\Delta_r G^\ominus$  at the same temperature will be

- (1)  $8.314 \text{ J mol}^{-1} \text{ K}^{-1} \times 300 \text{ K} \times \ln(2 \times 10^{13})$
- (2)  $8.314 \text{ J mol}^{-1} \text{ K}^{-1} \times 300 \text{ K} \times \ln(3 \times 10^{13})$
- (3)  $-8.314 \text{ J mol}^{-1} \text{ K}^{-1} \times 300 \text{ K} \times \ln(4 \times 10^{13})$
- (4)  $-8.314 \text{ J mol}^{-1} \text{ K}^{-1} \times 300 \text{ K} \times \ln(2 \times 10^{13})$

140. For the reaction,  $2\text{Cl}(\text{g}) \rightarrow \text{Cl}_2(\text{g})$ , the correct option is:

- (1)  $\Delta_r H > 0$  and  $\Delta_r S < 0$

(2)  $\Delta_r H < 0$  and  $\Delta_r S > 0$ (3)  $\Delta_r H < 0$  and  $\Delta_r S < 0$ (4)  $\Delta_r H > 0$  and  $\Delta_r S > 0$ 

141. Paper chromatography is an example of:

- (1) Partition chromatography
- (2) Thin layer chromatography
- (3) Column chromatography
- (4) Adsorption chromatography

142. The rate constant for a first order reaction  $4.606 \times 10^{-3} \text{ s}^{-1}$ . The time required to reduce 2.0 g of the reactant to 0.2 g is

- (1) 200 s
- (2) 500 s
- (3) 1000 s
- (4) 100 s

143. Which of the following oxoacid of sulphur has – O – O – linkage?

- (1)  $\text{H}_2\text{SO}_4$ , sulphuric acid
- (2)  $\text{H}_2\text{S}_2\text{O}_8$ , peroxodisulphuric acid
- (3)  $\text{H}_2\text{S}_2\text{O}_7$ , pyrosulphuric acid
- (4)  $\text{H}_2\text{SO}_3$ , sulphurous acid

144. Reaction between benzaldehyde and acetophenone in presence of dilute NaOH is known as:

- (1) Cannizzaro's reaction
- (2) Cross Cannizzaro's reaction
- (3) Cross Aldol condensation
- (4) Aldol condensation

145. An element has a body centered cubic (bcc) structure with a cell edge of 288 pm. The atoms radius is:

- (1)  $\frac{\sqrt{2}}{4} \times 288 \text{ pm}$
- (2)  $\frac{4}{\sqrt{3}} \times 288 \text{ pm}$
- (3)  $\frac{4}{\sqrt{2}} \times 288 \text{ pm}$
- (4)  $\frac{\sqrt{3}}{4} \times 288 \text{ pm}$

146. Which of the following is a cationic detergent?

- (1) Sodium stearate
- (2) Cetyltrimethyl ammonium bromide
- (3) Sodium dodecylbenzene sulphonate
- (4) Sodium lauryl sulphate

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147. The calculate spin only magnetic moment of Cr<sup>2+</sup> ion

is:

- (1) 4.90 BM
- (2) 5.92 BM
- (3) 2.84 BM
- (4) 3.87 BM

148. HCl was passed through a solution of CaCl<sub>2</sub>, MgCl<sub>2</sub> and NaCl. Which of the following compound(s) crystallize(s)?

- (1) Only NaCl
- (2) Only MgCl<sub>2</sub>
- (3) NaCl, MgCl<sub>2</sub> and CaCl<sub>2</sub>
- (4) Both MgCl<sub>2</sub> and CaCl<sub>2</sub>

149. Match the following and identify the correct option.

(a)	CO(g) + H <sub>2</sub> (g)	(i)	Mg(HCO <sub>3</sub> ) <sub>2</sub> + Ca(HCO <sub>3</sub> ) <sub>2</sub>
(b)	Temporary hardness of water	(ii)	An electron deficient hydride
(c)	B <sub>2</sub> H <sub>6</sub>	(iii)	Synthesis gas
(d)	H <sub>2</sub> O <sub>2</sub>	(iv)	Non-planar structure

	(a)	(b)	(c)	(d)
(1)	(iii)	(ii)	(i)	(iv)
(2)	(iii)	(iv)	(ii)	(i)
(3)	(i)	(iii)	(ii)	(iv)
(4)	(iii)	(i)	(ii)	(iv)

150. Elimination reaction of 2-Bromo-pentane to form pent-2-ene is:

- (a) β-Elimination reaction
  - (b) Follows Zaitsev rule
  - (c) Dehydrohalogenation reaction
  - (d) Dehydration reaction
- (1) (a), (c), (d)
  - (2) (b), (c), (d)
  - (3) (a), (b), (d)
  - (4) (a), (b), (c)

151. Which of the following is the correct order of increasing field strength of ligands to form coordination compounds?

- (1) SCN<sup>-</sup> < F<sup>-</sup> < CN<sup>-</sup> < C<sub>2</sub>O<sub>4</sub><sup>2-</sup>

- (2) F<sup>-</sup> < SCN<sup>-</sup> < C<sub>2</sub>O<sub>4</sub><sup>2-</sup> < CN<sup>-</sup>

- (3) CN<sup>-</sup> < C<sub>2</sub>O<sub>4</sub><sup>2-</sup> < SCN<sup>-</sup> < F<sup>-</sup>

- (4) SCN<sup>-</sup> < F<sup>-</sup> < C<sub>2</sub>O<sub>4</sub><sup>2-</sup> < CN<sup>-</sup>

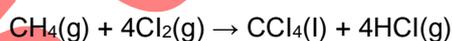
152. Identify the correct statement from the following:

- (1) Blister copper has blistered appearance due to evolution of CO<sub>2</sub>
- (2) Vapour phase refining is carried out for Nickel by Van Arkel method
- (3) Pig iron can be moulded into a variety of shapes
- (4) Wrought iron is impure iron with 4% carbon

153. Sucrose on hydrolysis gives:

- (1) α-D-Glucose + β-D-Glucose
- (2) α-D-Glucose + β-D-Fructose
- (3) α-D- Fructose + β-D- Fructose
- (4) α-D-Glucose + β-D- Fructose

154. Which is the change in oxidation number of carbon in the following reaction?



- (1) 0 to + 4
- (2) - 4 to + 4
- (3) 0 to - 4
- (4) + 4 to + 4

155. The following metal ion activates many enzymes

participates in the oxidation of glucose of product ATP and with Na<sub>i</sub> is responsible for the transmission of nerve signals.

- (1) Copper
- (2) Calcium
- (3) Potassium
- (4) Iron

156. Which of the following alkane cannot be made good yield by Wurtz reaction?

- (1) 2,3-Dimethylbutane
- (2) n-Heptane
- (3) n-Butane
- (4) n-Hexane

157. Measuring Zeta potential is useful in determining which property of colloidal solution?

- (1) Solubility
- (2) Stability of the colloidal particles
- (3) Size of the colloidal particles

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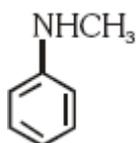
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(4) Viscosity

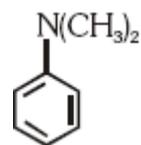
158. The freezing point depression constant ( $K_f$ ) benzene is  $5.12 \text{ K kg mol}^{-1}$ . The freezing point depression for the solution of molality 0.078 containing a non-electrolyte solute in benzene (rounded off upto two decimal places):

- (1) 0.80 K
- (2) 0.40 K
- (3) 0.60 K
- (4) 0.20 K

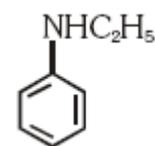
159. Which of the following amine will give the carbylamines test?



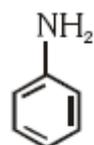
(1)



(2)



(3)



(4)

(1) (2) (3) (4)

160. Which of the following is a natural polymer?

- (1) Poly (Butadiene-styrene)
- (2) Polybutadiene
- (3) Poly (Butadiene-acrylonitrile)
- (4) cis-1,4-polyisoprene

161. Identify the incorrect statement.

- (1) The transition metals and their compounds are known for their catalytic activity due to their ability to adopt multiple oxidation states and to form complexes
- (2) Interstitial compounds are those that are formed when small atoms like H, C or N are trapped inside the crystal lattices of metals

(3) The oxidation states of chromium in  $\text{CrO}_4^{2-}$  and  $\text{Cr}_2\text{O}_7^{2-}$  are not the same

(4)  $\text{Cr}^{2+}$  ( $d^4$ ) is a stronger reducing agent than  $\text{Fe}^{2+}$  ( $d^6$ ) in water

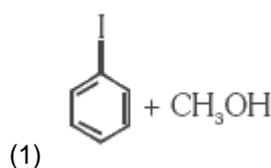
162. Which of the following set of molecules will have zero dipole moment?

- (1) Boron trifluoride, hydrogen fluoride, carbon dioxide, 1,3-dichlorobenzene
- (2) Nitrogen trifluoride, beryllium difluoride water, 1,3-dichlorobenzene
- (3) Boron trifluoride, beryllium difluoride carbon dioxide, 1,4-dichlorobenzene
- (4) Ammonia, beryllium difluoride, water, 1,4-dichlorobenzene

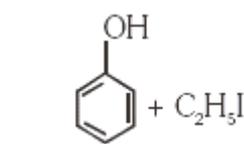
163. On electrolysis of dil. sulphuric acid using Platinum (Pt) electrode, the product obtained anode will be

- (1) Oxygen gas
- (2)  $\text{H}_2\text{S}$  gas
- (3)  $\text{SO}_2$  gas
- (4) Hydrogen gas

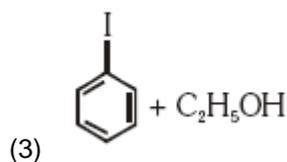
164. Anisole on cleavage with HI gives?



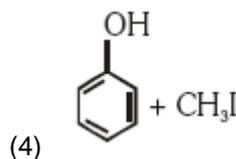
(1)



(2)



(3)



(4)

(1) (2) (3) (4)

165. The number of protons, neutrons and electrons in  $^{175}_{71}\text{Lu}$ , respectively, are:

- (1) 104, 71 and 71

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- (2) 71, 71 and 104  
 (3) 175, 104 and 71  
 (4) 71, 104 and 71

166. Match the following

	Oxide		Nature
(a)	CO	(i)	Basic
(b)	BaO	(ii)	Neutral
(c)	Al <sub>2</sub> O <sub>3</sub>	(iii)	Acidic
(d)	Cl <sub>2</sub> O <sub>7</sub>	(iv)	Amphoteric

Which of the following is correct option?

	(a)	(b)	(c)	(d)
(1)	(ii)	(i)	(iv)	(iii)
(2)	(iii)	(iv)	(i)	(ii)
(3)	(iv)	(iii)	(ii)	(i)
(4)	(i)	(ii)	(iii)	(iv)

167. A tertiary butyl carbocation is more stable than a secondary butyl carbocation because of which of the following?

- (1) +R effect of – CH<sub>3</sub> groups  
 (2) –R effect of – CH<sub>3</sub> groups  
 (3) Hyperconjugation  
 (4) -I effect of – CH<sub>3</sub> groups

168. Which one of the following has maximum number of atoms?

- (1) 1 g of Mg(s) [Atomic mass of Mg = 24]  
 (2) 1 g of O<sub>2</sub>(g) [Atomic mass of O = 16]  
 (3) 1 g of Li(s) [Atomic mass of Li = 7]  
 (4) 1 g of Ag(s) [Atomic mass of Ag = 108]

169. Which of the following is a basic amino acid?

- (1) Alanine  
 (2) Tyrosine  
 (3) Lysine  
 (4) Serine

170. The correct option for free expansion of an ideal gas under adiabatic condition is:

- (1)  $q = 0, \Delta T < 0$  and  $w > 0$   
 (2)  $q < 0, \Delta T = 0$  and  $w = 0$   
 (3)  $q > 0, \Delta T > 0$  and  $w > 0$   
 (4)  $q = 0, \Delta T = 0$  and  $w = 0$

171. Identify the incorrect match.

	Name		IUPAC Official Name
(a)	Unnilunium	(i)	Mendelevium
(b)	Unniltrium	(ii)	Lawrencium
(c)	Unnilhexium	(iii)	Seaborgium
(d)	Unununnium	(iv)	Darmstadtium

- (1) (b), (ii)  
 (2) (c), (iii)  
 (3) (d), (iv)  
 (4) (a), (i)

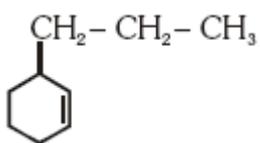
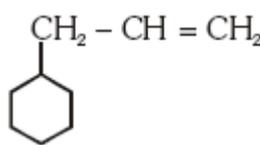
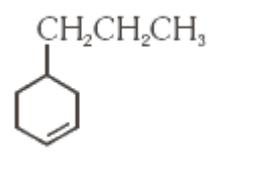
172. Identify a molecule which does not exist.

- (1) Li<sub>2</sub>  
 (2) C<sub>2</sub>  
 (3) O<sub>2</sub>  
 (4) He<sub>2</sub>

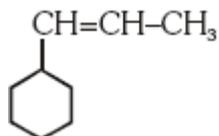
173. Identify the correct statements from the following:

- (a) CO<sub>2</sub>(g) is used as refrigerant for ice-cream and frozen food.  
 (b) The structure of C<sub>60</sub> contains twelve six carbon rings and twenty five carbon rings.  
 (c) ZSM-5, a type of zeolite, is used to convert alcohols into gasoline.  
 (d) CO is colorless and odourless gas.  
 (1) (a) and (c) only  
 (2) (b) and (c) only  
 (3) (c) and (d) only  
 (4) (a), (b) and (c) only

174. An alkene on ozonolysis gives methanol as one of the product. Its structure is:

- (1) 
- (2) 
- (3) 

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- (4)  
 (1) (2) (3) (4)

175. Reaction between acetone and methylmagnesium chloride followed by hydrolysis will give:

- (1) Sec. butyl alcohol  
 (2) **Tert. Butyl alcohol**  
 (3) Isobutyl alcohol  
 (4) Isopropyl alcohol

176. A mixture of  $\text{N}_2$  and Ar gases in a cylinder contain 7 g of  $\text{N}_2$  and 8 g of Ar. If the total pressure of the mixture of the gases in the cylinder is 27 bar, the partial pressure of  $\text{N}_2$  is:

[Use atomic masses (in  $\text{g mol}^{-1}$ ): N = 14, Ar = 4]

- (1) 12 bar  
 (2) **15 bar**  
 (3) 18 bar  
 (4) 9 bar

177. An increase in the concentration of the reactant of a reaction leads to change in:

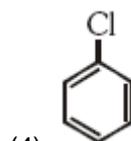
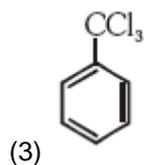
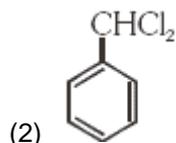
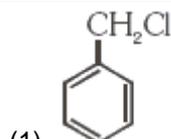
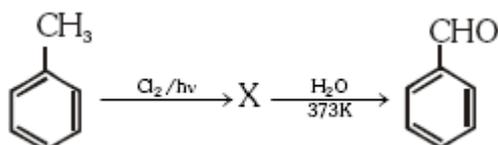
- (1) Heat of reaction  
 (2) Threshold energy  
 (3) **Collision frequency**  
 (4) Activation energy

178. Find out the solubility of  $\text{Ni}(\text{OH})_2$  in 0.1 M NaOH.

Given that the ionic product of  $\text{Ni}(\text{OH})_2$   $2 \times 10^{-15}$ .

- (1)  $2 \times 10^{-8}$  M  
 (2)  $1 \times 10^{-13}$  M  
 (3)  $1 \times 10^{-8}$  M  
 (4)  **$2 \times 10^{-13}$  M**

179. Identify compound X in the following sequence of reactions:



- (1) (2) (3) (4)

180. Urea reacts with water to form A which will decompose to form B. B when passed through  $\text{Cu}^{2+}(\text{aq})$ , deep blue colour solution C is formed. What is the formula of C from the following?

- (1)  **$[\text{Cu}(\text{NH}_3)_4]^{2+}$**   
 (2)  $\text{Cu}(\text{OH})_2$   
 (3)  $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$   
 (4)  $\text{CuSO}_4$