

LHMC Admission Test BSc Hons Nursing Course MAIN

Topic:- LHMC_MAIN_BIOLOGY (50)

1) Which of the following processes captures the key difference between metapopulation versus single-population approaches to study population dynamics?

[Question ID = 127]

1. Life history variations

[Option ID = 505]

2. Birth and Death

[Option ID = 506]

3. Environmental and demographic stochasticity

[Option ID = 507]

4. Immigration and Emigration

[Option ID = 508]

Correct Answer :-

- Immigration and Emigration

[Option ID = 508]

2) Match List I with List II

List I	List II
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A. Grafting	I. Jasmine
B. Budding	II. Mango
C. Layering	III. Rose
D. Bulbil	IV. Agave

Choose the correct answer from the options given below:

[Question ID = 128]

1. A-III, B-II, C-I, D-IV

[Option ID = 509]

2. A-II, B-III, C-I, D-IV

[Option ID = 510]

3. A-II, B-III, C-IV, D-I

[Option ID = 511]

4. A-III, B-I, C-II, D-IV

[Option ID = 512]

Correct Answer :-

- A-II, B-III, C-I, D-IV

[Option ID = 510]

3) Which of the following organisms does not have the ability to fix atmospheric nitrogen?

[Question ID = 129]

1. Nostoc

[Option ID = 513]

2. Spirogyra

[Option ID = 514]

3. Azotobactor

[Option ID = 515]

4. Anabaena

[Option ID = 516]

Correct Answer :-

- Spirogyra

[Option ID = 514]

4) Consider the following components:

- A. Paleozoic era
- B. Cenozoic era
- C. Archaeozoic era
- D. Proterozoic era
- E. Mesozoic era

Choose the correct sequence of the arrangement of these eras in geological time scale from the options below

[Question ID = 130]

- 1. B-> E-> A-> D-> C [Option ID = 517]
- 2. B-> E-> D-> A-> C [Option ID = 518]
- 3. B-> E-> A-> C-> D [Option ID = 519]
- 4. B-> E-> C-> D-> A [Option ID = 520]

Correct Answer :-

- B-> E-> A-> D-> C [Option ID = 517]

5) In India, *Parthenium hysterophorus* and *Lantana camra* are examples of

[Question ID = 131]

- 1. Invasive and endangered species, respectively

[Option ID = 521]

- 2. Endemic and keystone species, respectively

[Option ID = 522]

- 3. Endemic species only

[Option ID = 523]

- 4. Invasive species only

[Option ID = 524]

Correct Answer :-

- Invasive species only

[Option ID = 524]

6)

Given below are two statements:

Statement I: Liver is the principal site for the storage of vitamin C

Statement II: Synthesis of plasma globulins takes place in liver

In light of the above statements, choose the most appropriate answer from the options given below:

[Question ID = 132]

1. Both Statement I and Statement II are true

[Option ID = 525]

2. Both Statement I and Statement II are false

[Option ID = 526]

3. Statement I is true but Statement II is false

[Option ID = 527]

4. Statement I is false but Statement II is true

[Option ID = 528]

Correct Answer :-

- Both Statement I and Statement II are false

[Option ID = 526]

7) Acid rain can be attributed to

A. Human alteration of global sulfur cycle

B. Increased average global temperature

C. Human alteration of global nitrogen cycle

D. Fluctuation in sunspots

E. Volcanism

Choose the correct answer from the options given below:

[Question ID = 133]

1. A, C and D only [Option ID = 529]

2. A and B only [Option ID = 530]

3. A, B and E only [Option ID = 531]

4. A, C and E only [Option ID = 532]

Correct Answer :-

- A, C and E only [Option ID = 532]

8) The organism used for alcohol fermentation is

[Question ID = 134]

1. *Saccharomyces*

[Option ID = 533]

2. *Pseudomonas*

[Option ID = 534]

3. *Aspergillus*

[Option ID = 535]

4. *Penicillium*

[Option ID = 536]

Correct Answer :-

- *Saccharomyces*

[Option ID = 533]

9) The seedless vascular plants whose sporophytes are larger than their small and independent gametophytes, are

[Question ID = 135]

1. Gymnosperms

[Option ID = 537]

2. Angiosperms

[Option ID = 538]

3. Pteridophytes

[Option ID = 539]

4. Bryophytes

[Option ID = 540]

Correct Answer :-

- Pteridophytes

[Option ID = 539]

10) Match List I with List II

List I	List II

A. Hydra	I. Multiple fission
B. <i>Plasmodium</i>	II. Longitudinal binary fission
C. <i>Amoeba</i>	III. Budding
D. <i>Paramecium</i>	IV. Transverse binary fission

Choose the correct answer from the options given below:

[Question ID = 136]

1. A-IV, B-I, C-II, D-III

[Option ID = 541]

2. A-III, B-I, C-IV, D-II

[Option ID = 542]

3. A-III, B-I, C-II, D-IV

[Option ID = 543]

4. A-III, B-II, C-IV, D-I

[Option ID = 544]

Correct Answer :-

- A-III, B-I, C-II, D-IV

[Option ID = 543]

11) Characteristics of '*r*' selected species

- A. Produce small number of progenies
- B. Reproduce quickly
- C. Low survival rate of progenies

D. Reproduce slowly

E. Parental care

Choose the correct answer from the options given below:

[Question ID = 137]

1. A and B only

[Option ID = 545]

2. B and C only

[Option ID = 546]

3. B, C, D and E only

[Option ID = 547]

4. A, C, and D only

[Option ID = 548]

Correct Answer :-

- B and C only

[Option ID = 546]

12) A plant species 'X' is dioecious, another plant species 'Y' is bisexual and cross-pollinated, while a third plant species 'Z' is bisexual and self-pollinated.

All else being equal, what might be the expected pollen-ovule ratio when arranged in descending order

[Question ID = 138]

1. $Y > Z > X$ [Option ID = 549]

2. $X > Y = Z$ [Option ID = 550]

3. $X > Y > Z$ [Option ID = 551]

4. $X = Y > Z$ [Option ID = 552]

Correct Answer :-

- $X > Y > Z$ [Option ID = 551]

13) The corpus luteum

[Question ID = 139]

1. begins to atrophy in the second month of pregnancy

[Option ID = 553]

2. is essential for the secretory phase of the menstrual cycle

[Option ID = 554]

3. is a mass of cells that is formed in the uterus

[Option ID = 555]

4. development is controlled by posterior lobe of pituitary

[Option ID = 556]

Correct Answer :-

- is essential for the secretory phase of the menstrual cycle

[Option ID = 554]

14) Match List I with List II

List I	List II
A. Law of dominance	I. Dihybrid cross
B. ABO Blood grouping	II. Multiple alleles
C. Law of segregation	III. Monohybrid cross
D. Law of independent assortment	IV. Controlled by factors

Choose the correct answer from the options given below:

[Question ID = 140]

1. A-IV, B-I, C-II, D-III

[Option ID = 557]

2. A-IV, B-I, C-III, D-II

[Option ID = 558]

3. A-III, B-II, C-IV, D-I

[Option ID = 559]

4. A-IV, B-II, C-III, D-I

[Option ID = 560]

Correct Answer :-

- A-IV, B-II, C-III, D-I

[Option ID = 560]

15) Given below are two statements:

Statement I: The two factors responsible for speciation among

populations are reproductive isolation and genetic divergence.
Statement II: The gene flow does not tend to promote speciation
In the light of the above statement, choose the most appropriate answer from the options given below

[Question ID = 141]

1. Both Statement I and Statement II are true [Option ID = 561]
2. Both Statement I and Statement II are false [Option ID = 562]
3. Statement I is true but Statement II is false [Option ID = 563]
4. Statement I is false but Statement II is true [Option ID = 564]

Correct Answer :-

- Both Statement I and Statement II are true [Option ID = 561]

16) Match List I with List II

List I	List II
A. Oxygen evolving complex ferric oxalate	I. Potassium
B. Proton gradient concentration	II. High oxygen
C. Hill reagent	III. ATP synthesis
D. Photorespiration	IV. Photolysis of water

Choose the correct answer from the options given below:

[Question ID = 142]

1. A-IV, B-III, C-I, D-II

[Option ID = 565]

2. A-I, B-II, C-IV, D-III

[Option ID = 566]

3. A-IV, B-I, C-III, D-II

[Option ID = 567]

4. A-I, B-IV, C-III, D-II

[Option ID = 568]

Correct Answer :-

- A-IV, B-III, C-I, D-II

[Option ID = 565]

17) Which one of the following is not true about the light reactions of photosynthesis?

[Question ID = 143]

1. NADPH is not produced in cyclic electrons transport in light reactions.

[Option ID = 569]

2. The flow of electrons from water to NADP in non-cyclic electron transport produces one ATP

[Option ID = 570]

3. Reactions of the two photosystems are needed for the reduction of NADP

[Option ID = 571]

4. P680 and P700 are the reaction centres of PS I and PS II reactions, respectively

[Option ID = 572]

Correct Answer :-

- P680 and P700 are the reaction centres of PS I and PS II reactions, respectively

[Option ID = 572]

18) Development and flourishing of fishery industry is termed as

[Question ID = 144]

1. Aqua revolution

[Option ID = 573]

2. Silver revolution

[Option ID = 574]

3. Cyan revolution

[Option ID = 575]

4. Blue revolution

[Option ID = 576]

Correct Answer :-

- Blue revolution

[Option ID = 576]

19) Passage cells are thin-walled cells found in:

[Question ID = 145]

1. Phloem elements that serve as entry points for substances for transport to other plant parts [Option ID = 577]

2. Endodermis of roots facilitating rapid transport of water from cortex to pericycle [Option ID = 578]

3. Central area of style through which the pollen tube grows towards the ovary [Option ID = 579]

4. Testa of seeds to allow emergence of growing embryonic axis during seed germination [Option ID = 580]

Correct Answer :-

- Endodermis of roots facilitating rapid transport of water from cortex to pericycle [Option ID = 578]

20) Blood group antigens (agglutinogens)

- A. Are Beta globulins
- B. Present in fetal blood
- C. Inherited as dominant Mendelian characteristics
- D. Part of the red cell membrane
- E. Equally immunogenic

Choose the correct answer from the options given below:

[Question ID = 146]

- 1. A,B,C only [Option ID = 581]
- 2. B,C,D only [Option ID = 582]
- 3. C,D,E only [Option ID = 583]
- 4. A,B,E only [Option ID = 584]

Correct Answer :-

- B,C,D only [Option ID = 582]

21) Human chorionic gonadotrophic hormone (hCG)

[Question ID = 147]

- 1. Is a glycoprotein [Option ID = 585]
- 2. Acts directly on the uterus to maintain the endometrium [Option ID = 586]
- 3. Is secreted from the anterior pituitary [Option ID = 587]
- 4. Blood level rises steadily throughout pregnancy [Option ID = 588]

Correct Answer :-

- Blood level rises steadily throughout pregnancy [Option ID = 588]

22) Match List I with List II

List I	List II
A. <i>Propionibacterium sharmanii</i>	I. Cyclosporin A
B. <i>Aspergillus niger</i>	II. Citric acid
C. <i>Monascus purpureus</i>	III. Swiss cheese
D. <i>Trichoderma polysporum</i>	IV. Statins

Choose the correct answer from the options given below:

[Question ID = 148]

1. A-III, B-IV, C-II, D-I

[Option ID = 589]

2. A-IV, B-I, C-II, D-III

[Option ID = 590]

3. A-III, B-II, C-IV, D-I

[Option ID = 591]

4. A-IV, B-II, C-I, D-III

[Option ID = 592]

Correct Answer :-

- A-III, B-II, C-IV, D-I

[Option ID = 591]

23) In the patterns of biodiversity

- A. Species diversity decreases as we move away from the equator towards the poles**
- B. Tropics harbor more species than temperate or polar areas**
- C. Tropical latitudes have remained relatively undisturbed**
- D. Constant environments demote niche specialization and lead to a lesser species diversity**
- E. Species diversity increases as we move away from the equator towards the poles**

Choose the correct answer from the options given below:

[Question ID = 149]

1. C & D only

[Option ID = 593]

2. A, B & C only

[Option ID = 594]

3. B, C & E only

[Option ID = 595]

4. A & B only

[Option ID = 596]

Correct Answer :-

- A & B only

[Option ID = 596]

24) Consider the following hydrarch succession:

- A. Sedges**
- B. Phytoplanktons**
- C. Trees**
- D. Grasses**
- E. Rooted hydrophytes**

Choose the correct sequence of primary succession in water from the options below

[Question ID = 150]

- 1. B-> E-> A-> C-> D [Option ID = 597]
- 2. B-> E-> D-> A-> C [Option ID = 598]
- 3. B-> E-> A-> D-> C [Option ID = 599]
- 4. B-> E-> C-> D-> A [Option ID = 600]

Correct Answer :-

- B-> E-> A-> D-> C [Option ID = 599]

25) Contraceptive methods

- A. In periodic abstinence couples avoid or abstain from coitus from day 15 to 19 of the menstrual cycle**
- B. Coitus interrupts is a barrier method of contraception**
- C. Menstrual cycle do not occur during the period of intense lactation following parturition**
- D. Multiload 375 is a example of copper releasing IUD's**
- E. Saheli-the oral contraceptive for the females contains a steroidal preparation.**

Choose the correct answer from the options given below:

[Question ID = 151]

- 1. A, D and E only [Option ID = 601]
- 2. B and C only [Option ID = 602]
- 3. C and D only [Option ID = 603]
- 4. B, C and E only [Option ID = 604]

Correct Answer :-

- C and D only [Option ID = 603]

26) Which of the following is not a characteristic feature of class Aves
[Question ID = 152]

1. Pneumatic bones [Option ID = 605]
2. Homoiothermy [Option ID = 606]
3. Pinnae [Option ID = 607]
4. Air sacs [Option ID = 608]

Correct Answer :-

- Pinnae [Option ID = 607]

27) As people age, there is usually a decrease in their
[Question ID = 153]

1. Residual volume [Option ID = 609]
2. Vital capacity [Option ID = 610]
3. Residual and closing volumes [Option ID = 611]
4. Closing volume [Option ID = 612]

Correct Answer :-

- Vital capacity [Option ID = 610]

28) If two plants having heterozygous genotype for a trait are crossed, what percentage of the progeny will have heterozygous genotype?

[Question ID = 154]

1. 25%

[Option ID = 613]

2. 50%

[Option ID = 614]

3. 75%

[Option ID = 615]

4. 100%

[Option ID = 616]

Correct Answer :-

- 50%

[Option ID = 614]

29) One of the major difficulties in the biological control of insect pest is that

[Question ID = 155]

1. The method is less effective as compared with the use of insecticides [Option ID = 617]
2. The predator does not always survive when transferred to a new environment [Option ID = 618]

3. The practical difficulty of introducing the predator to specific areas [Option ID = 619]
4. The predator develops a preference to other diets and may itself become a pest. [Option ID = 620]

Correct Answer :-

- The predator does not always survive when transferred to a new environment [Option ID = 618]

30) Given below are two statements:

Statement I: When pea seeds and wheat grains are soaked in water, pea seeds showed more swelling than the wheat due to more imbibition capacity of proteins than that of starch.

Statement II: Double fertilization is unique to gymnosperms and monocotyledons

In the light of the above statements, choose the most appropriate answer from the options given below

[Question ID = 156]

1. Both Statement I and Statement II are true [Option ID = 621]
2. Both Statement I and Statement II are false [Option ID = 622]
3. Statement I is true but Statement II is false [Option ID = 623]
4. Statement I is false but Statement II is true [Option ID = 624]

Correct Answer :-

- Statement I is true but Statement II is false [Option ID = 623]

31) In bone

- A. Osteoclasts are responsible for bone resorption
- B. Osteoclasts are inhibited by parathyroid hormone
- C. Osteocytes show high degree of mitotic activity
- D. Osteocytes maintain the mineral concentration of the matrix
- E. Each osteon is composed of concentric rings of calcified matrix called lamellae

Choose the correct answer from the options given below:

[Question ID = 157]

1. A,D only [Option ID = 625]
2. B,C,E only [Option ID = 626]
3. A,B,D,E only [Option ID = 627]
4. A,B,C,E only [Option ID = 628]

Correct Answer :-

- A,B,D,E only [Option ID = 627]

32) Given below are two statements:

Statement I: Humulin was human insulin that was produced in *E. coli* using recombinant DNA technology. It was the first therapeutic rDNA product approved for human use.

Statement II: Rosie was a transgenic cow that produced milk which contained human protein α -1-antitrypsin used to treat emphysema.

In the light of the above statements, choose the most appropriate answer from the options given below

[Question ID = 158]

1. Both Statement I and Statement II are true [Option ID = 629]
2. Both Statement I and Statement II are false [Option ID = 630]
3. Statement I is true but Statement II is false [Option ID = 631]
4. Statement I is false but Statement II is true [Option ID = 632]

Correct Answer :-

- Statement I is false but Statement II is true [Option ID = 632]

33) A starfish moves on the bottom of the sea by lifting its arms and moves forward. Which system of starfish helps for such locomotion?

[Question ID = 159]

1. Pseudopodia [Option ID = 633]
2. Water vascular system [Option ID = 634]
3. Water canal system [Option ID = 635]
4. Ciliary system [Option ID = 636]

Correct Answer :-

- Water vascular system [Option ID = 634]

34) Match List I with List II

List I	List II
A. Tetany	I. Decreased levels of estrogen
B. Muscular dystrophy	II. Genetic disorder
C. Myasthenia gravis	III. Autoimmune disorder
D. Osteoporosis	IV. Rapid spasms in muscle

Choose the correct answer from the options given below:

[Question ID = 160]

1. A-IV, B-II, C-I, D-III

[Option ID = 637]

2. A-IV, B-II, C-III, D-I

[Option ID = 638]

3. A-III, B-II, C-I, D-IV

[Option ID = 639]

4. A-I, B-II, C-III, D-IV

[Option ID = 640]

Correct Answer :-

- A-IV, B-II, C-III, D-I

[Option ID = 638]

35) The international treaty which was signed in 1987 for recognizing the deleterious effects of ozone depletion

[Question ID = 161]

1. Montreal Protocol [Option ID = 641]

2. Kyoto Protocol [Option ID = 642]

3. Nagoya Protocol [Option ID = 643]

4. Cartagena Protocol [Option ID = 644]

Correct Answer :-

- Montreal Protocol [Option ID = 641]

36) The Bt cotton having crylAc and cryIIAb gene is specifically engineered for controlling

[Question ID = 162]

1. Corn borer [Option ID = 645]

2. Cotton aphid [Option ID = 646]

3. Red cotton bug [Option ID = 647]

4. Cotton bollworm [Option ID = 648]

Correct Answer :-

- Cotton bollworm [Option ID = 648]

37) The term 'allelopathy' describes

[Question ID = 163]

1. Inhibition of the sporulation of pathogen by the host [Option ID = 649]

2. Inhibition of growth of one species by another by producing toxins [Option ID = 650]

3. Inhibiting the growth of one species by another species by preventing reproduction [Option ID = 651]

4. Altering the reproductive cycle of one organism by another [Option ID = 652]

Correct Answer :-

- Inhibition of growth of one species by another by producing toxins [Option ID = 650]

38) Consider the following horses :

- A. Mesohippus
- B. Hyracotherium
- C. Pliohippus
- D. Merychippus
- E. Equus

Choose the correct sequence of the evolution of horse from the options below

[Question ID = 164]

1. A-> E-> B-> D-> C [Option ID = 653]
2. A-> B-> D-> C-> E [Option ID = 654]
3. B-> A-> D-> C-> E [Option ID = 655]
4. B-> E-> C-> D-> A [Option ID = 656]

Correct Answer :-

- B-> A-> D-> C-> E [Option ID = 655]

39) Given below are two statements:

Statement I: A skeletal muscle fibre membrane is negatively charged on the inside with respect to the outside at rest

Statement II: A skeletal muscle fibre becomes more excitable as its resting membrane potential falls

In the light of the above statements, choose the most appropriate answer from the options given below

[Question ID = 165]

1. Both Statement I and Statement II are true [Option ID = 657]
2. Both Statement I and Statement II are false [Option ID = 658]
3. Statement I is true but Statement II is false [Option ID = 659]
4. Statement I is false but Statement II is true [Option ID = 660]

Correct Answer :-

- Both Statement I and Statement II are true [Option ID = 657]

40) Match List I with List II

List I	List II

A. Elephantiasis	I. <i>Taenia</i>
B. Cysticercosis	II. <i>Leishmania</i>
C. Amoebiasis	III. <i>Wuchereria</i>
D. Kala azar	IV. <i>Entamoeba</i>

Choose the correct answer from the options given below:

[Question ID = 166]

1. A-IV; B-I; C-II; D-III

[Option ID = 661]

2. A-III; B-I; C-IV; D-II

[Option ID = 662]

3. A-III; B-II; C-IV; D-I

[Option ID = 663]

4. A-II; B-III; C-IV; D-I

[Option ID = 664]

Correct Answer :-

- A-III; B-I; C-IV; D-II

[Option ID = 662]

41) A test-cross was carried out for a pea plant having genotype RR and phenotype as round seeds. What would be the ratio of phenotype (plants with round seeds: plants with wrinkled seeds) in the resulting progeny?

[Question ID = 167]

1. All wrinkled [Option ID = 665]

2. round: wrinkled :: 1 : 1 [Option ID = 666]

3. round: wrinkled :: 3:1 [Option ID = 667]

4. All round [Option ID = 668]

Correct Answer :-

- All round [Option ID = 668]

42) Match List I with List II

List I	List II
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A. Theory of use and disuse of organ	I. Charles Darwin
B. Theory of pangenesis	II. Jean Baptiste Lamarck
C. Mutation theory	III. Motoo Kimura
D. Neutral theory of molecular evolution	IV. Hugo de Vries

Choose the correct answer from the options given below:

[Question ID = 168]

1. A-II, B-I, C-IV, D-III

[Option ID = 669]

2. A-II, B-III, C-IV, D-I

[Option ID = 670]

3. A-IV, B-III, C-II, D-I

[Option ID = 671]

4. A-III, B-I, C-IV, D-II

[Option ID = 672]

Correct Answer :-

- A-II, B-I, C-IV, D-III

[Option ID = 669]

43) Consider the following taxonomic categories:

- A. Phylum
- B. Order
- C. Kingdom
- D. Class
- E. Species

Choose the correct sequences of taxonomic categories in ascending order from the options below

[Question ID = 169]

1. E-> B-> D-> A-> C [Option ID = 673]

2. E-> D-> B-> A-> C [Option ID = 674]

3. B-> C-> E-> A-> D [Option ID = 675]

4. B-> E-> C-> D-> A [Option ID = 676]

Correct Answer :-

- E-> B-> D-> A-> C [Option ID = 673]

44) Match List I with List II

List I	List II
A. Choanocytes	I. Ctenophora
B. Parapodia	II. Echinodermata
C. Sea walnuts	III. Porifera
D. Sea lily	IV. Annelida

Choose the correct answer from the options given below:

[Question ID = 170]

1. A-III, B-II, C-I, D-IV

[Option ID = 677]

2. A-II, B-I, C-IV, D-III

[Option ID = 678]

3. A-III, B-IV, C-I, D-II

[Option ID = 679]

4. A-II, B-I, C-III, D-IV

[Option ID = 680]

Correct Answer :-

- A-III, B-IV, C-I, D-II

[Option ID = 679]

45) Reverse transcriptase is an enzyme encoded in the genetic material of retroviruses that catalyzes the transcription of retroviral genetic material. The enzymatic activity of reverse transcriptase is:

[Question ID = 171]

1. DNA-dependent RNA polymerase [Option ID = 681]

2. DNA-dependent DNA polymerase [Option ID = 682]

3. RNA-dependent DNA polymerase [Option ID = 683]

4. RNA-dependent RNA polymerase [Option ID = 684]

Correct Answer :-

- RNA-dependent DNA polymerase [Option ID = 683]

46) During gene expression in prokaryotes, accessibility of promoter regions to RNA polymerase is often regulated by the interaction of regulatory proteins with sequences of DNA. These DNA sequences are called

[Question ID = 172]

1. Inducer [Option ID = 685]
2. Repressor [Option ID = 686]
3. Operator [Option ID = 687]
4. Activator [Option ID = 688]

Correct Answer :-

- Operator [Option ID = 687]

47) During the Krebs cycle:

[Question ID = 173]

1. The products of glycolysis are further broken down, generating additional ATP and NADH molecules [Option ID = 689]
2. Cellular respiration can continue even in the absence of oxygen [Option ID = 690]
3. Pyruvate molecules are converted to lactate [Option ID = 691]
4. NADH gets oxidized to NAD⁺ [Option ID = 692]

Correct Answer :-

- The products of glycolysis are further broken down, generating additional ATP and NADH molecules [Option ID = 689]

48) Restriction endonucleases are bacterial enzymes that cut double stranded DNA. These restriction enzymes do not cut their own DNA because

[Question ID = 174]

1. The bacterium does not contain the specific recognition sequence
[Option ID = 693]
2. The DNA is packed with histones
[Option ID = 694]
3. The specific recognition sequence is masked with methyl groups
[Option ID = 695]
4. Restriction endonucleases cut viral DNA only
[Option ID = 696]

Correct Answer :-

- The specific recognition sequence is masked with methyl groups
[Option ID = 695]

49) Selection of recombinants based on their ability to produce colour in the presence of a chromogenic substrate is termed as
[Question ID = 175]

1. Insertional inactivation [Option ID = 697]
2. Insertional mutagenesis [Option ID = 698]

3. Insertional selection [Option ID = 699]
4. Insertional chromogenesis [Option ID = 700]

Correct Answer :-

- Insertional inactivation [Option ID = 697]

50) Which does not occur in telophase?

[Question ID = 176]

1. The nucleolus reforms [Option ID = 701]
2. The nuclear membrane is being reconstructed [Option ID = 702]
3. The centromeres split apart [Option ID = 703]
4. Chromosomes de-condense into chromatin [Option ID = 704]

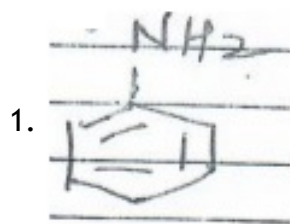
Correct Answer :-

- The centromeres split apart [Option ID = 703]

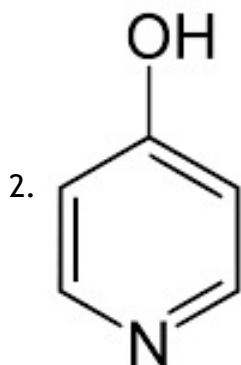
Topic:- LHMC_MAIN_Chemistry (25)

1) Which of the following is not a hetero-cyclic aromatic compound?

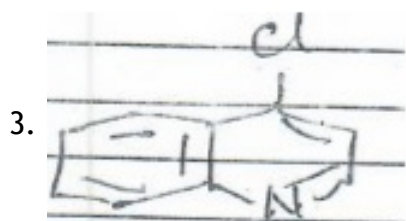
[Question ID = 177]



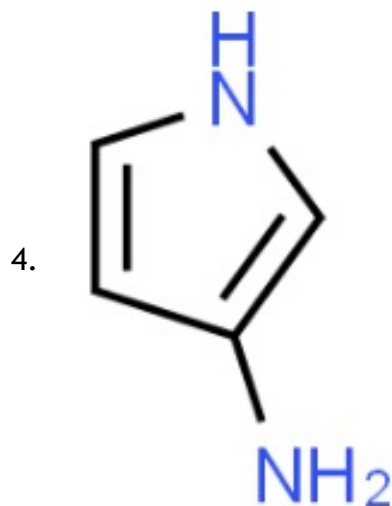
[Option ID = 705]



[Option ID = 706]

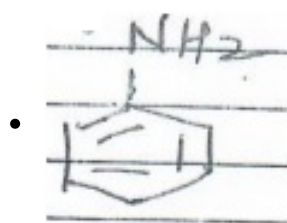


[Option ID = 707]



[Option ID = 708]

Correct Answer :-



[Option ID = 705]

2) Which of the following is not an o-, p-directing group?

[Question ID = 178]

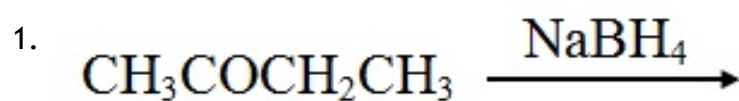
1. -NHCOCH_3 [Option ID = 709]
2. -NHCH_3 [Option ID = 710]
3. $\text{-NHCH}_2\text{CH}_3$ [Option ID = 711]
4. -CONHCH_3 [Option ID = 712]

Correct Answer :-

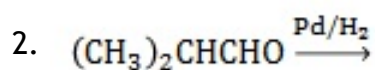
- -CONHCH_3 [Option ID = 712]

3) Which of the following reaction will give t-butanol?

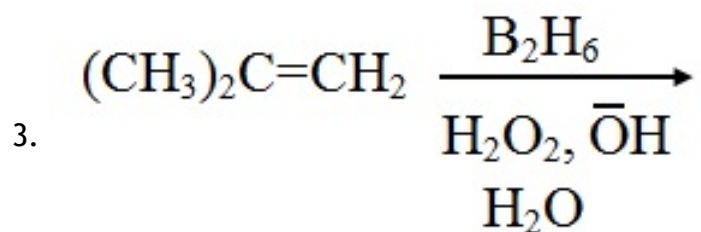
[Question ID = 179]



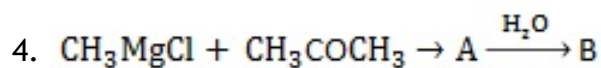
[Option ID = 713]



[Option ID = 714]

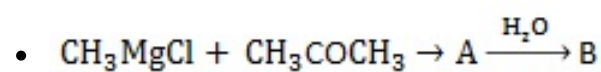


[Option ID = 715]



[Option ID = 716]

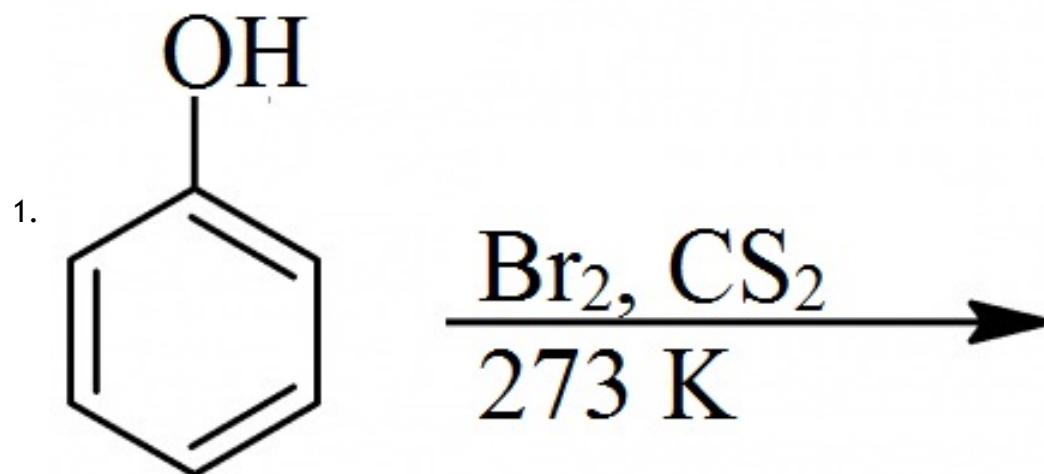
Correct Answer :-



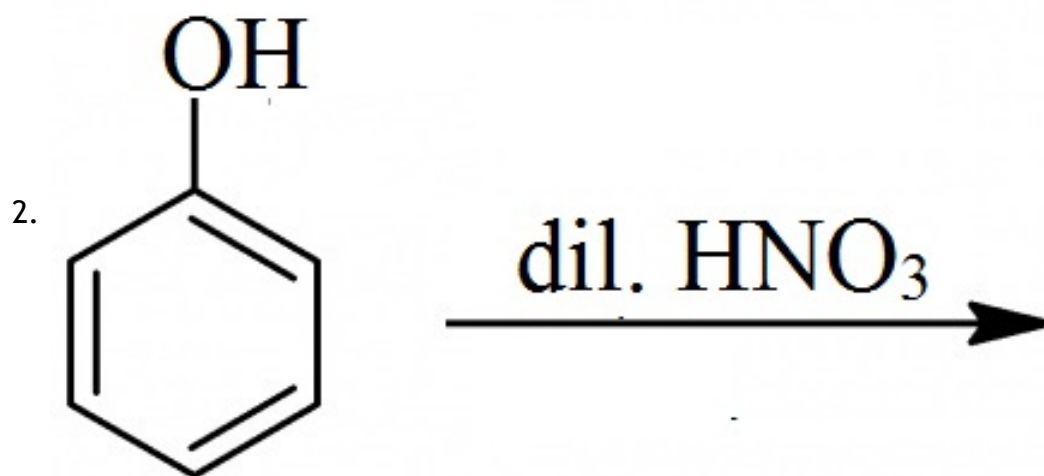
[Option ID = 716]

4) In which of the following reaction of phenol, a polysubstituted phenol is obtained?

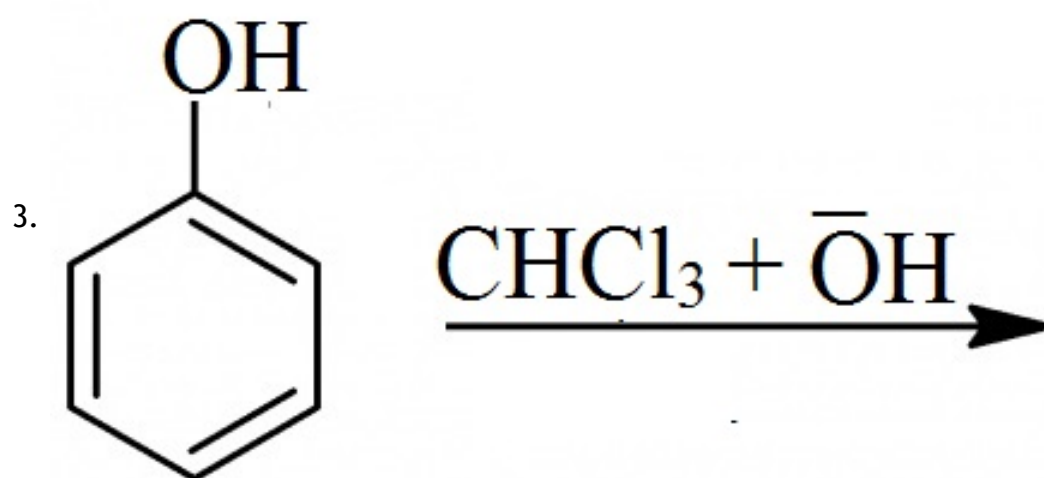
[Question ID = 180]



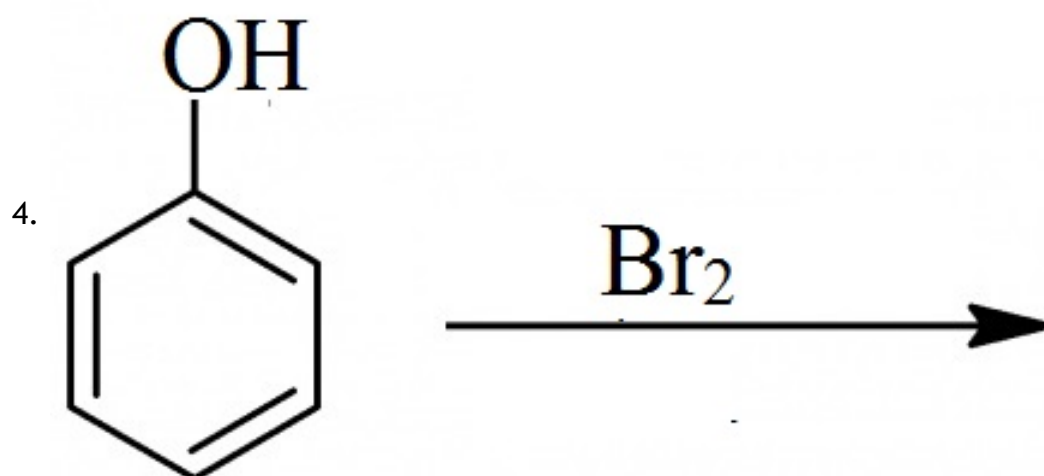
[Option ID = 717]



[Option ID = 718]

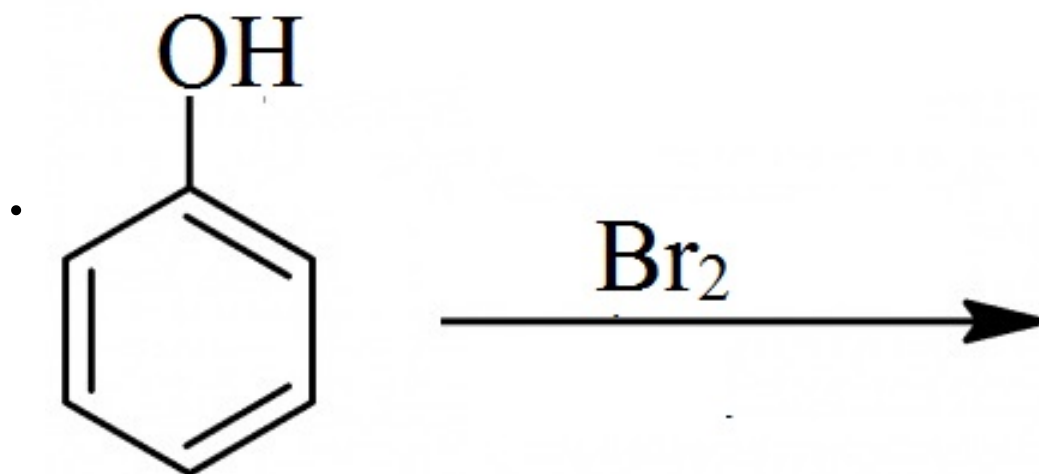


[Option ID = 719]



[Option ID = 720]

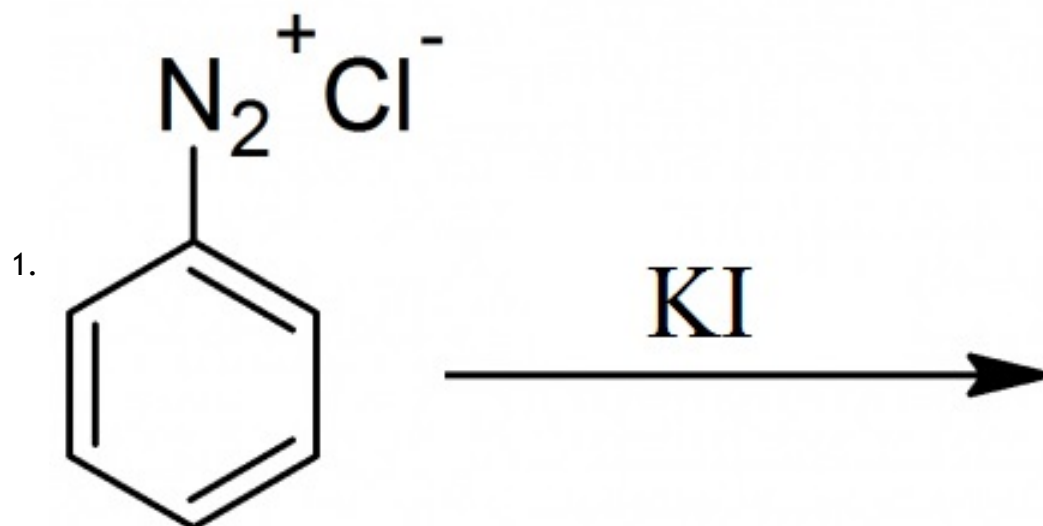
Correct Answer :-



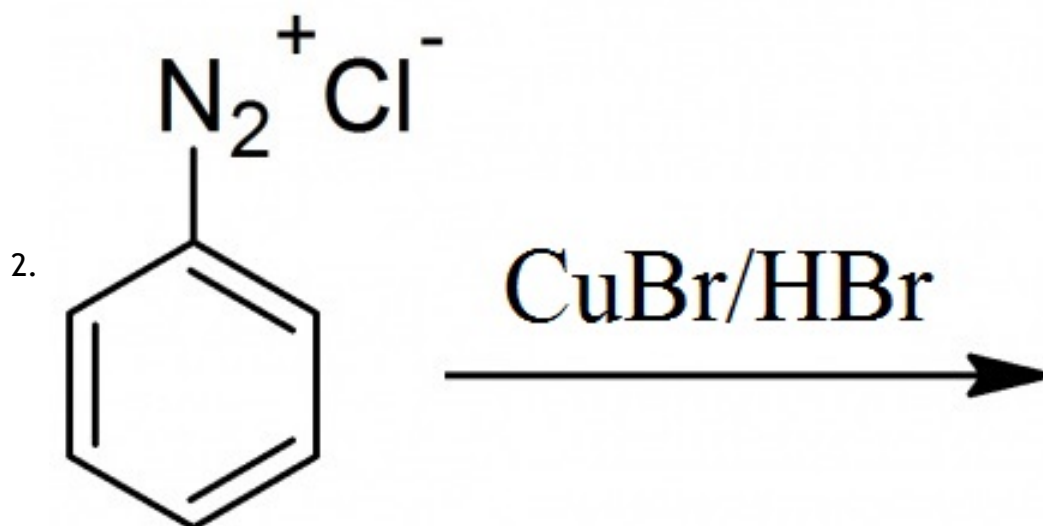
[Option ID = 720]

5) In which of the following reactions, the diazo group is retained in the end product?

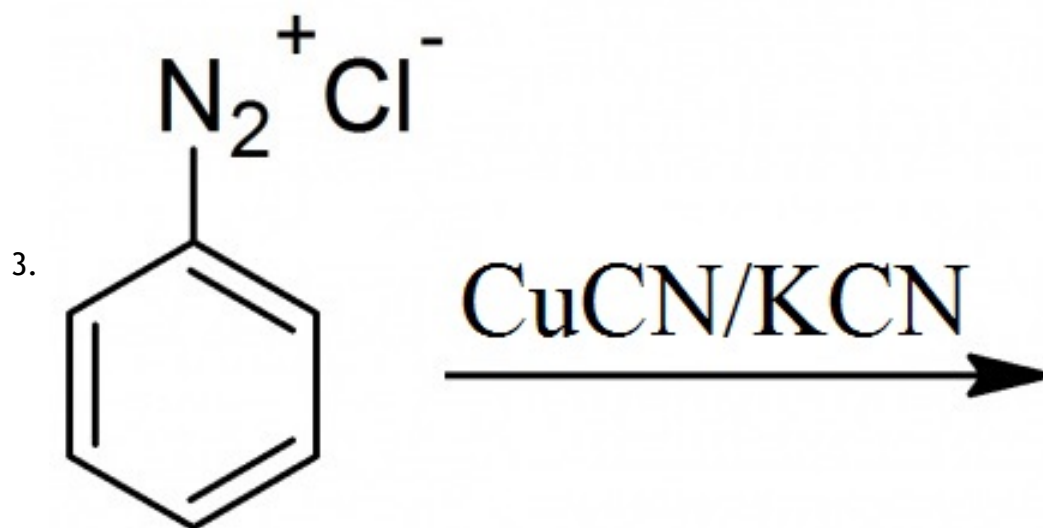
[Question ID = 181]



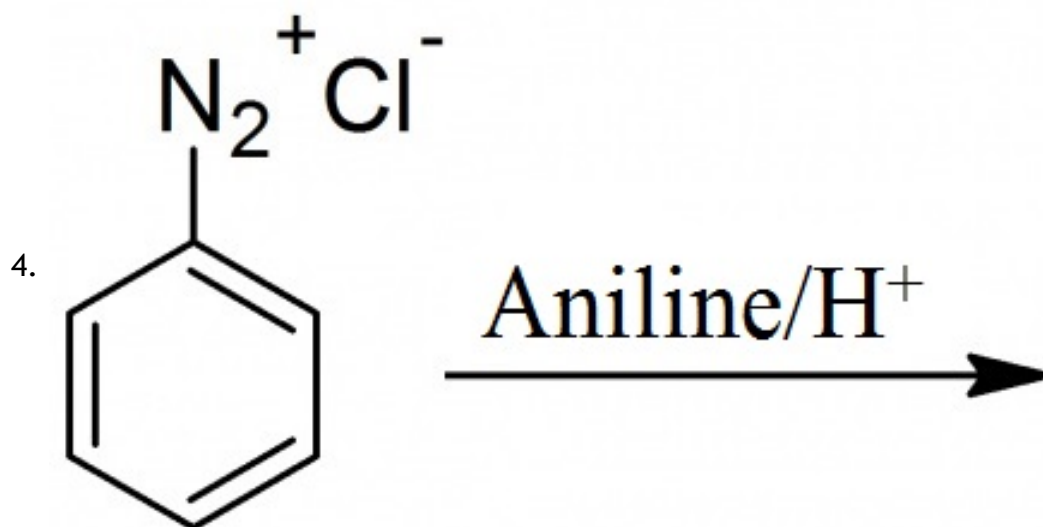
[Option ID = 721]



[Option ID = 722]

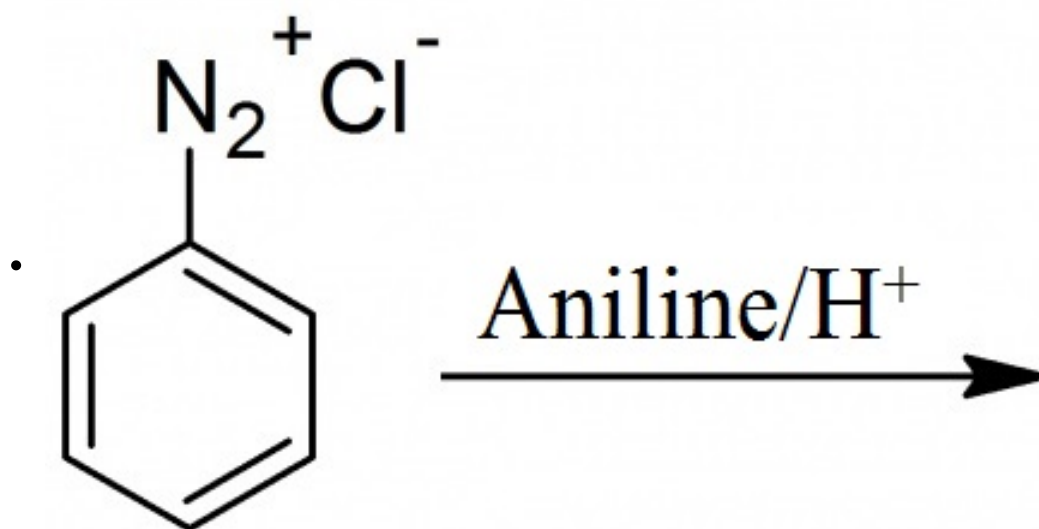


[Option ID = 723]



[Option ID = 724]

Correct Answer :-



[Option ID = 724]

6) Which of the following carbohydrate will not give α -D-Glucopyranose on hydrolysis?

[Question ID = 182]

1. lactose

[Option ID = 725]

2. Amylose

[Option ID = 726]

3. Amylopectin

[Option ID = 727]

4. Maltose

[Option ID = 728]

Correct Answer :-

- lactose

[Option ID = 725]

7) Which polymer (abbreviation given below) is used for making non-stick utensils

[Question ID = 183]

1. PVC [Option ID = 729]

2. PET [Option ID = 730]

3. PTFE [Option ID = 731]

4. PAN [Option ID = 732]

Correct Answer :-

- PTFE [Option ID = 731]

8) Which amine will not react with Hinsberg reagent?

[Question ID = 184]

1. $(\text{CH}_3\text{CH}_2)_3\text{N}$ [Option ID = 733]

2. $(\text{CH}_3\text{CH}_2)_2\text{NH}$ [Option ID = 734]

3. $\text{CH}_3\text{CH}_2\text{NH}_2$ [Option ID = 735]

4. $(\text{CH}_3)_2\text{CH}_2\text{CH}_2\text{NH}_2$ [Option ID = 736]

Correct Answer :-

- $(\text{CH}_3\text{CH}_2)_3\text{N}$ [Option ID = 733]

9) The only oxo acid of Fluorine, among the following is

[Question ID = 185]

1. HOF [Option ID = 737]

2. HOFO [Option ID = 738]

3. HOFO_2 [Option ID = 739]

4. HOFO_3 [Option ID = 740]

Correct Answer :-

- HOF [Option ID = 737]

10) Which of the following is not a use of Borax

[Question ID = 186]

1. A flux for soldering metals.

[Option ID = 741]

2. Stain resistant glazed coating to earthenwares.

[Option ID = 742]

3. Constituent of medicinal soaps.

[Option ID = 743]

4. Control rods in nuclear reactor.

[Option ID = 744]

Correct Answer :-

- Control rods in nuclear reactor.

[Option ID = 744]

11) Choose the correct statement for the two ionic species: NH_4^+ and H_3O^+ ions :

[Question ID = 187]

1. The hybridisation of central atom and structures are different

[Option ID = 745]

2. They are iso-structural and the hybridisation of central atom is same

[Option ID = 746]

3. They are iso-structural and the hybridisation of the central atom is different

[Option ID = 747]

4. The hybridisation of central atom is same but the structures are different

[Option ID = 748]

Correct Answer :-

- The hybridisation of central atom is same but the structures are different

[Option ID = 748]

12) Predict which of the following ion will not give rise to $d-d$ transition?

[Question ID = 188]

1. Fe^{3+}

[Option ID = 749]

2. Sc^{3+}

[Option ID = 750]

3. V^{3+}

[Option ID = 751]

4. Ti^{3+}

[Option ID = 752]

Correct Answer :-

- Sc^{3+}

[Option ID = 750]

13) Identify the disproportionation reaction -

[Question ID = 189]

1. $\text{Na}_2\text{CO}_3 + 2\text{HCl} \rightarrow 2\text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$ [Option ID = 753]

2. $\text{NaHCO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$ [Option ID = 754]

3. $\text{Na}_2\text{SO}_3 + 2\text{HCl} \rightarrow 2\text{NaCl} + \text{H}_2\text{O} + \text{SO}_2$ [Option ID = 755]

4. $\text{Cl}_2 + \text{NaOH} \rightarrow \text{NaCl} + \text{NaClO}_3 + \text{H}_2\text{O}$ [Option ID = 756]

Correct Answer :-

- $\text{Cl}_2 + \text{NaOH} \rightarrow \text{NaCl} + \text{NaClO}_3 + \text{H}_2\text{O}$ [Option ID = 756]

14) Which molecule has non-zero dipole moment?

[Question ID = 190]

1. CH_4

[Option ID = 757]

2. H_2

[Option ID = 758]

3. CO_2

[Option ID = 759]

4. O_3

[Option ID = 760]

Correct Answer :-

- O_3

[Option ID = 760]

15) The order of decreasing ionization enthalpy in alkali metals is

[Question ID = 191]

1. $\text{Li} < \text{Na} < \text{K} < \text{Rb}$

[Option ID = 761]

2. $\text{Na} > \text{Li} > \text{K} > \text{Rb}$

[Option ID = 762]

3. $\text{Li} > \text{Na} > \text{K} > \text{Rb}$

[Option ID = 763]

4. $\text{K} > \text{Li} > \text{Na} > \text{Li}$

[Option ID = 764]

Correct Answer :-

- $\text{Li} > \text{Na} > \text{K} > \text{Rb}$

[Option ID = 763]

16) The formula of siderite is

[Question ID = 192]

1. SnO_2 [Option ID = 765]

2. ZnO [Option ID = 766]

3. FeCO_3 [Option ID = 767]

4. Cu_2O [Option ID = 768]

Correct Answer :-

- FeCO_3 [Option ID = 767]

17) If molar mass is 99 and empirical formula is CH_2Cl . The molecular formula is

[Question ID = 193]

1. CH_2Cl_2 [Option ID = 769]

2. CH_3Cl [Option ID = 770]

3. $\text{C}_2\text{H}_4\text{Cl}_2$ [Option ID = 771]

4. $\text{C}_2\text{H}_5\text{Cl}$ [Option ID = 772]

Correct Answer :-

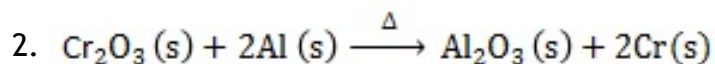
- $\text{C}_2\text{H}_4\text{Cl}_2$ [Option ID = 771]

18) Which one of following redox reactions is the example of non-metal displacement redox reaction?

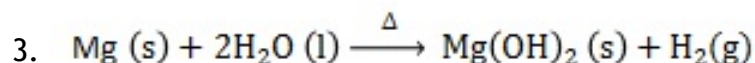
[Question ID = 194]

1. $2\text{H}_2\text{O} (\text{l}) \xrightarrow{\Delta} 2\text{H}_2 (\text{g}) + \text{O}_2 (\text{g})$

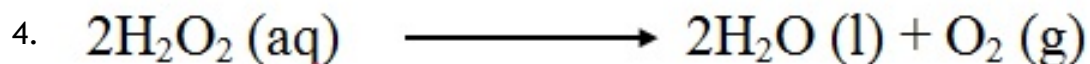
[Option ID = 773]



[Option ID = 774]

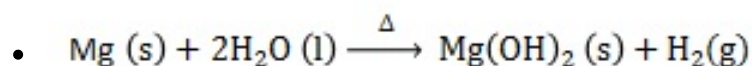


[Option ID = 775]



[Option ID = 776]

Correct Answer :-



[Option ID = 775]

19) Which of the following statement is correct regarding the solutions exhibit positive deviation from ideal solution

[Question ID = 195]

1. $\Delta H_{\text{mix}} = 0$

[Option ID = 777]

2. $\Delta V_{\text{mix}} > 0$

[Option ID = 778]

3. Intermolecular attractive forces between A-A and B-B are nearly equal to A-B.

[Option ID = 779]

4. Intermolecular attractive forces between A-A and B-B are weaker than A-B.

[Option ID = 780]

Correct Answer :-

- $\Delta V_{\text{mix}} > 0$

[Option ID = 778]

20) The Concentration of hydrogen ion in a solution is $3.8 \times 10^{-3} \text{ M}$. pH of the solution is :

[Question ID = 196]

1. 3.8 [Option ID = 781]

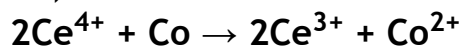
2. 2.42 [Option ID = 782]

3. 3.3 [Option ID = 783]
4. 2.24 [Option ID = 784]

Correct Answer :-

- 2.42 [Option ID = 782]

21) For the cell reaction



$E^\circ_{\text{cell}} = 1.89 \text{ V}$ and if $E^\circ_{\text{Co}^{2+}/\text{Co}}$ is -0.26 V . What is the value of $E^\circ_{\text{Ce}^{4+}/\text{Ce}^{3+}}$?

[Question ID = 197]

1. 2.15 V

[Option ID = 785]

2. 1.37 V

[Option ID = 786]

3. 1.63 V

[Option ID = 787]

4. 2.41 V

[Option ID = 788]

Correct Answer :-

- 1.63 V

[Option ID = 787]

22) Which one of the following statements is incorrect for Kohlrausch law?

[Question ID = 198]

1. $\Lambda_m = V_+ \lambda_- + V_- \lambda_+$

[Option ID = 789]

2. $\Lambda^\circ_m = V_+ \lambda^\circ_- + V_- \lambda^\circ_+$

[Option ID = 790]

3. $\Lambda_m = V_+ \lambda_+ + V_- \lambda_-$

[Option ID = 791]

4. $\Lambda^\circ_m = V_+ \lambda_+ + V_- \lambda_-$

[Option ID = 792]

Correct Answer :-

- $\Lambda_m = V_+ \lambda_- + V_- \lambda_+$

[Option ID = 789]

- $\Lambda_m^\circ = V_+ \lambda_-^\circ + V_- \lambda_+^\circ$

[Option ID = 790]

- $\Lambda_m = V_+ \lambda_+ + V_- \lambda_-$

[Option ID = 791]

- $\Lambda_m^\circ = V_+ \lambda_+^\circ + V_- \lambda_-^\circ$

[Option ID = 792]

23) Which one of the following reactions is the example of heterogeneous catalysis?

[Question ID = 199]

1. Oxidation of sulphur dioxide into sulphur trioxide with oxygen in the presence of oxides of nitrogen in lead chamber process. [Option ID = 793]
2. Hydrolysis of sugar is catalysed by H_2SO_4 . [Option ID = 794]
3. Reaction of alkene with m-CPBA in dichloromethane [Option ID = 795]
4. Hydrogenation of vegetable oils in the presence of finely divided nickel catalyst [Option ID = 796]

Correct Answer :-

- Hydrogenation of vegetable oils in the presence of finely divided nickel catalyst [Option ID = 796]

24) In a reaction between A and B, the initial rate of reaction (r_o), was measured for different initial concentration of A and B of given below

A (mol L ⁻¹)	0.20	0.20	0.40
B (mol L ⁻¹)	0.30	0.10	0.05
r_o (mol L ⁻¹ s ⁻¹)	5.7×10^{-5}	5.7×10^{-5}	1.14×10^{-4}

The order of the reaction with respect to A and B is,

[Question ID = 200]

1. 0, 1

[Option ID = 797]

2. 1, 0

[Option ID = 798]

3. 1, 1

[Option ID = 799]

4. 0, 2

[Option ID = 800]

Correct Answer :-

- 1, 0

[Option ID = 798]

25) Which one of the following is incorrect?

[Question ID = 202]

1. $\Delta_r H^\ominus = \Sigma \text{ bond enthalpies of the products} - \Sigma \text{ bond enthalpies of the reactants}$

[Option ID = 805]

2.
$$\Delta_r H = \sum_f (a_i \Delta_f H_{\text{products}}) - \sum_i (b_i \Delta_f H_{\text{reactions}})$$

[Option ID = 806]

3. $\Delta_r G^\ominus = -RT \ln K$

[Option ID = 807]

4. $\Delta H = q_p$

[Option ID = 808]

Correct Answer :-

- $\Delta_r H^\ominus = \Sigma \text{ bond enthalpies of the products} - \Sigma \text{ bond enthalpies of the reactants}$

[Option ID = 805]

Topic:- LHMC_MAIN_Physics (25)

1) Which one of the four physical quantities listed below has the same dimensions as stress?

[Question ID = 203]

1. Density [Option ID = 809]
2. Pressure [Option ID = 810]
3. Force [Option ID = 811]
4. Work [Option ID = 812]

Correct Answer :-

- Pressure [Option ID = 810]

2) Which one of the physical quantities listed below is NOT a vector?

[Question ID = 204]

1. Displacement [Option ID = 813]
2. Angular velocity [Option ID = 814]
3. Torque [Option ID = 815]
4. Strain [Option ID = 816]

Correct Answer :-

- Strain [Option ID = 816]

3) The moment of inertia of a disc of mass 10g and radius 1 cm about one of its diameter is

[Question ID = 205]

1. $2.5 \times 10^{-7} \text{ Kg m}^2$ [Option ID = 817]
2. $2.5 \times 10^{-4} \text{ Kg m}^2$ [Option ID = 818]
3. $2.5 \times 10^{-2} \text{ Kg m}^2$ [Option ID = 819]
4. $2.5 \times 10^{-1} \text{ Kg m}^2$ [Option ID = 820]

Correct Answer :-

- $2.5 \times 10^{-7} \text{ Kg m}^2$ [Option ID = 817]

4) Choose the INCORRECT state from the statements written below about isochoric process

[Question ID = 206]

1. In isochoric process volume remains constant
[Option ID = 821]
2. In isochoric process no work is done on or by the gas
[Option ID = 822]
3. The heat absorbed by the gas goes entirely to change its internal energy
[Option ID = 823]
4. The temperature remains constant in isochoric process
[Option ID = 824]

Correct Answer :-

- The temperature remains constant in isochoric process
[Option ID = 824]

5) A simple harmonic oscillator executes 120 oscillations in 1 min. The angular frequency of the oscillator is

[Question ID = 207]

1. $4\pi \text{ rad/s}$
[Option ID = 825]
2. $2\pi \text{ rad/s}$
[Option ID = 826]
3. $\pi \text{ rad/s}$

[Option ID = 827]

4. $\pi/2$ rad/s

[Option ID = 828]

Correct Answer :-

- 4π rad/s

[Option ID = 825]

6) The kinetic energy of an orbiting satellite is

[Question ID = 208]

1. Equal to its potential energy [Option ID = 829]
2. Half of its potential energy [Option ID = 830]
3. Half of its potential energy with negative sign [Option ID = 831]
4. Twice its potential energy with negative sign [Option ID = 832]

Correct Answer :-

- Half of its potential energy with negative sign [Option ID = 831]

7) By which instrument listed below we can measure the gauge pressure of a gas in an enclosure

[Question ID = 209]

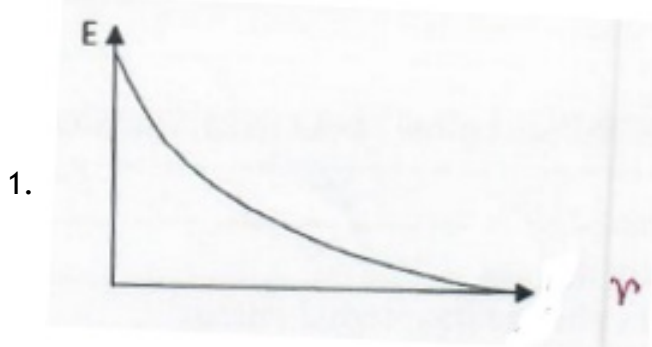
1. Barometer [Option ID = 833]
2. Manometer [Option ID = 834]
3. Venturi meter [Option ID = 835]
4. Multimeter [Option ID = 836]

Correct Answer :-

- Manometer [Option ID = 834]

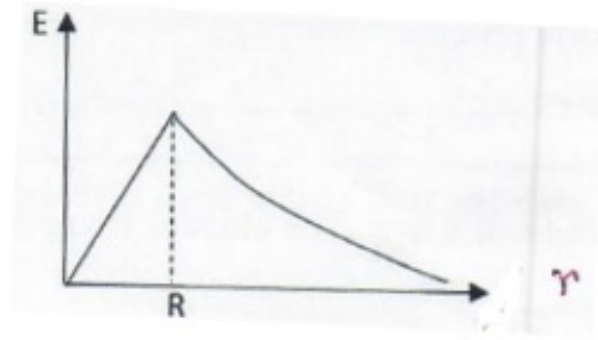
8) A thin spherical shell of radius R is charged uniformly. Then the electric field E due to the shell as a function of distance y from the centre of the shell will be represented by

[Question ID = 210]



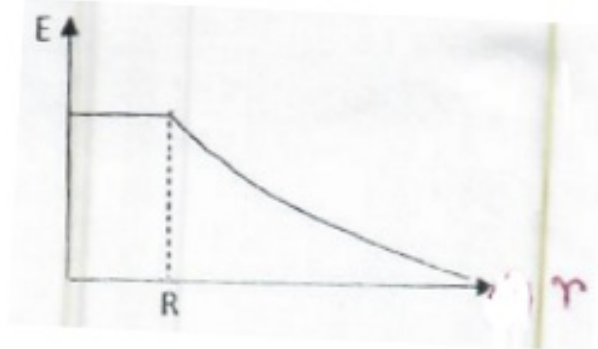
[Option ID = 837]

2.



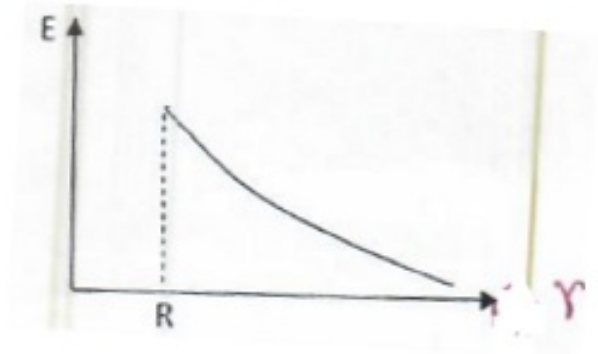
[Option ID = 838]

3.



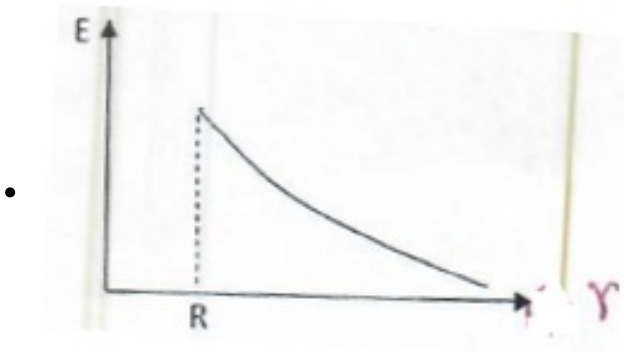
[Option ID = 839]

4.



[Option ID = 840]

Correct Answer :-



[Option ID = 840]

9) Temperature of a black body is raised from 37°C to 637°C the amount of heat radiated per second compared to initial state will become

[Question ID = 211]

1. 3 times

[Option ID = 841]

2. 9 times

[Option ID = 842]

3. 27 times

[Option ID = 843]

4. 81 times

[Option ID = 844]

Correct Answer :-

- 81 times

[Option ID = 844]

10) In Young's double slit experiment, slits are separated by 0.3 mm and screen is 1 m away from slits. If the wavelength of light used is $6000\text{\AA}$, the fringe width is

[Question ID = 212]

1. 2×10^{-5} m [Option ID = 845]

2. 2×10^{-4} m [Option ID = 846]

3. 2×10^{-2} m [Option ID = 847]

4. 2×10^{-3} m [Option ID = 848]

Correct Answer :-

- 2×10^{-3} m [Option ID = 848]

11) In an hydrogen atom, the electron and proton are found at a distance of about $0.53\text{\AA}$. The potential energy of the system will be

[Question ID = 213]

1. 13.6 eV [Option ID = 849]

2. -13.6 eV [Option ID = 850]

3. 27.2 eV [Option ID = 851]

4. -27.2 eV [Option ID = 852]

Correct Answer :-

- -27.2 eV [Option ID = 852]

12) Which of the following series of spectral lines emitted by a hydrogen atom lies in the visible region?

[Question ID = 214]

1. Balmer series [Option ID = 853]

2. Paschen series [Option ID = 854]

3. Brackett series [Option ID = 855]
4. Pfund series [Option ID = 856]

Correct Answer :-

- Balmer series [Option ID = 853]

13) Nichrome wire is used in potentiometer because of its

[Question ID = 215]

1. Low resistivity

[Option ID = 857]

2. High resistivity

[Option ID = 858]

3. Negligible temperature co-efficient resistivity

[Option ID = 859]

4. High temperature co-efficient resistivity

[Option ID = 860]

Correct Answer :-

- Negligible temperature co-efficient resistivity

[Option ID = 859]

14) An electron accelerated through a potential difference of V volt passes through a uniform transverse magnetic field and experiences a force F . If the accelerating potential is increased to $4V$ volt, the electron in the same magnetic field will experience a force

[Question ID = 216]

1. $2F$ [Option ID = 861]

2. $\frac{1}{2}F$ [Option ID = 862]

3. $\sqrt{2}F$ [Option ID = 863]

4. $4F$ [Option ID = 864]

Correct Answer :-

- $2F$ [Option ID = 861]

15) The work function of a metal is 2 eV. When light of frequency 6×10^{14} Hz is incident on it, photoemission of electron occurs. The maximum kinetic energy of the emitted electron is ($h = 6.64 \times 10^{-34}$ Js)

[Question ID = 217]

1. 7.84×10^{-18} [Option ID = 865]

2. 7.84×10^{-19} [Option ID = 866]

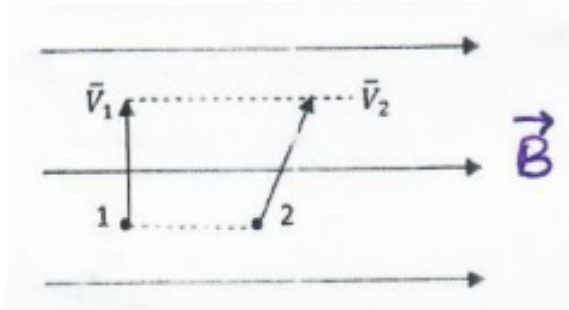
3. 7.84×10^{-20} [Option ID = 867]

4. 7.84×10^{-21} [Option ID = 868]

Correct Answer :-

- 7.84×10^{-20} [Option ID = 867]

16) Two particles having same charge but different masses and different velocities, are moving in constant magnetic field. The particles velocity vectors, drawn to the scale, are also depicted in Figure. The magnetic force experienced by the particles will be



[Question ID = 218]

1. Particle 1 experiences greater force

[Option ID = 869]

2. Particle 2 experiences greater force

[Option ID = 870]

3. Particle having lighter mass experiences greater force

[Option ID = 871]

4. Both particle experience same force

[Option ID = 872]

Correct Answer :-

- Both particle experience same force

[Option ID = 872]

17) For transistor action, which of the following statement is correct?

[Question ID = 219]

1. Base, emitter and collector region should have similar size and doping concentration [Option ID = 873]
2. The base region must be very thin and lightly doped [Option ID = 874]
3. Both emitter junction and collector junction are reversed biased [Option ID = 875]
4. Both the emitter junction as well as the collector junction are forward biased [Option ID = 876]

Correct Answer :-

- The base region must be very thin and lightly doped [Option ID = 874]

18) A transformer has primary of 2000 turns and voltage gain in 4. The number of turns in the secondary will be

[Question ID = 220]

1. 8000

[Option ID = 877]

2. 500

[Option ID = 878]

3. 2000

[Option ID = 879]

4. 4000

[Option ID = 880]

Correct Answer :-

- 8000

[Option ID = 877]

19) A 50 μ F capacitor is connected to 220V having angular frequency 200 rad/s ac supply. The rms value of the current in the circuit is

[Question ID = 221]

1. 1.2 A [Option ID = 881]

2. 4.4 A [Option ID = 882]

3. 2.2 A [Option ID = 883]

4. 0.22 A [Option ID = 884]

Correct Answer :-

- 2.2 A [Option ID = 883]

20) Approximate height of troposphere from earth's surface is

[Question ID = 222]

1. 375 Km to 425 Km [Option ID = 885]

2. 150 Km to 190 Km [Option ID = 886]

3. 65 Km to 75 Km [Option ID = 887]

4. 10 Km [Option ID = 888]

Correct Answer :-

- 10 Km [Option ID = 888]

21) Length of a cylinder is measured with scale having least count 0.1 cm and diameter is measured with a vernier calipers having least count 0.01 cm. If length of cylinder is 5.0 cm and radius is 2.0 cm, the percentage error in the volume is

[Question ID = 223]

1. 1.5%

[Option ID = 889]

2. 2%

[Option ID = 890]

3. 3%

[Option ID = 891]

4. 2.5%

[Option ID = 892]

Correct Answer :-

- 3%

[Option ID = 891]

22) When a small spherical ball of radius r and mass m moves through a viscous fluid, the backward dragging force F acting on the body is proportional to,

[Question ID = 224]

1. r

[Option ID = 893]

2. $1/r$

[Option ID = 894]

3. r^2

[Option ID = 895]

4. $1/r^2$

[Option ID = 896]

Correct Answer :-

- r

[Option ID = 893]

23) The efficiency of the Carnot engine depends on the

[Question ID = 225]

1. nature of working substance [Option ID = 897]

2. temperature of the sink only [Option ID = 898]

3. temperature of the source only [Option ID = 899]

4. temperature of both the sink and source [Option ID = 900]

Correct Answer :-

- temperature of both the sink and source [Option ID = 900]

24) A mass m is projected h from the surface of earth with a velocity v at an angle of Q with the vertical direction. During its entire journey, the net force acting on the mass is, (g = acceleration due to gravity)

[Question ID = 226]

1. zero

[Option ID = 901]

2. mg

[Option ID = 902]

3. $mg/2$

[Option ID = 903]

4. $2mg$

[Option ID = 904]

Correct Answer :-

- mg

[Option ID = 902]

25) Two circular wires A and B have same material and same area of cross-section but length of B is double compared that of A. The ratio of their Young's modulus $Y_A : Y_B$ will be

[Question ID = 227]

1. 1 : 2

[Option ID = 905]

2. 2 : 1

[Option ID = 906]

3. 1 : 4

[Option ID = 907]

4. 1 : 1

[Option ID = 908]

Correct Answer :-

- 1 : 1

[Option ID = 908]

**1) Kathakali, Mohiniatam and Ottamthullal are the famous dances of-
[Question ID = 228]**

1. Gujarat [Option ID = 909]
2. West Bengal [Option ID = 910]
3. Odisha [Option ID = 911]
4. Kerala [Option ID = 912]

Correct Answer :-

- Kerala [Option ID = 912]

2) The General Assembly meets regularly-

[Question ID = 229]

1. Once every six months
[Option ID = 913]
2. After every three months
[Option ID = 914]
3. Once a year
[Option ID = 915]
4. Once every four months
[Option ID = 916]

Correct Answer :-

- Once a year
[Option ID = 915]

3) What was the theme of the India-ASEAN (Association of Southeast Asian Nations) Business Summit 2019?

[Question ID = 230]

1. "ASEAN-India Partnership for Peace and Shared Prosperity" [Option ID = 917]
2. "Shared Values, Common Destiny" [Option ID = 918]
3. "Today, Tomorrow, Together" [Option ID = 919]
4. "Innovative Asean" [Option ID = 920]

Correct Answer :-

- "Today, Tomorrow, Together" [Option ID = 919]

4) The first man-made satellite, Sputnik I was launched by the Soviet Union in-

[Question ID = 231]

1. 1957

[Option ID = 921]

2. 1955

[Option ID = 922]

3. 1967

[Option ID = 923]

4. 1947

[Option ID = 924]

Correct Answer :-

- 1957

[Option ID = 921]

5) Philology is the study of-

[Question ID = 232]

1. coins [Option ID = 925]

2. muscles [Option ID = 926]

3. architecture [Option ID = 927]

4. Science of languages [Option ID = 928]

Correct Answer :-

- Science of languages [Option ID = 928]

6) Which state topped amongst the Swachh Survekshan Grameen Awards 2019?

[Question ID = 233]

1. Delhi

[Option ID = 929]

2. Haryana

[Option ID = 930]

3. Tamil Nadu

[Option ID = 931]

4. Gujarat

[Option ID = 932]

Correct Answer :-

- Tamil Nadu

[Option ID = 931]

7) Where will India's first 'tyre park' come up?

[Question ID = 234]

1. New Delhi [Option ID = 933]
2. Chennai [Option ID = 934]
3. West Bengal [Option ID = 935]
4. Kerala [Option ID = 936]

Correct Answer :-

- West Bengal [Option ID = 935]

8) Which public transport service has launched 'Meri Saheli' initiative for security of women?

[Question ID = 235]

1. Indian Railways
[Option ID = 937]
2. Delhi Metro Rail Corporation(DMRC)
[Option ID = 938]
3. Delhi Transport Corporation (DTC)
[Option ID = 939]
4. None of these
[Option ID = 940]

Correct Answer :-

- Indian Railways
[Option ID = 937]

9) Which among the following states has decided to observe COVID-19-No Tolerance Fortnight till 6th Novmber 2020

[Question ID = 236]

1. Himachal Pradesh
[Option ID = 941]
2. Assam
[Option ID = 942]
3. Mizoram
[Option ID = 943]
4. Nagaland
[Option ID = 944]

Correct Answer :-

- Mizoram

[Option ID = 943]

10) India's first National Maritime Heritage museum is to be established at which of the following sites?

[Question ID = 237]

1. Navinal [Option ID = 945]
2. Amri [Option ID = 946]
3. Lothal [Option ID = 947]
4. Bet Dwarka [Option ID = 948]

Correct Answer :-

- Lothal [Option ID = 947]

Topic:- Eng Q1 & Q2

1) Instructions: Choose the synonym of the given word from the four alternatives that follow:

Capricious

[Question ID = 238]

1. Garrulous [Option ID = 949]
2. Haughty [Option ID = 950]
3. Erratic [Option ID = 951]
4. Steadfast [Option ID = 952]

Correct Answer :-

- Erratic [Option ID = 951]

2) Instructions: Choose the synonym of the given word from the four alternatives that follow:

Querulous

[Question ID = 239]

1. Evasive [Option ID = 953]
2. Loquacious [Option ID = 954]
3. Apprehensive [Option ID = 955]
4. Petulant [Option ID = 956]

Correct Answer :-

- Petulant [Option ID = 956]

Topic:- Eng Q3 & Q4

1) Instructions: Choose the Antonym of the given word from the four alternatives that follow:

Arrogant

[Question ID = 240]

1. Courteous [Option ID = 960]
2. Cowardly [Option ID = 957]
3. Egotistic [Option ID = 958]
4. Humble [Option ID = 959]

Correct Answer :-

- Humble [Option ID = 959]

2) Instructions: Choose the Antonym of the given word from the four alternatives that follow:

Indiscreet

[Question ID = 241]

1. Reliable [Option ID = 961]
2. Prudent [Option ID = 962]
3. Honest [Option ID = 963]
4. Stupid [Option ID = 964]

Correct Answer :-

- Prudent [Option ID = 962]

Topic:- Eng Q5 to Q7

1) Instruction: Choose the most appropriate answer from the four given options:

She came to work _____.

[Question ID = 242]

1. by walk [Option ID = 965]
2. by foot [Option ID = 966]
3. by walking [Option ID = 967]
4. on foot [Option ID = 968]

Correct Answer :-

- on foot [Option ID = 968]

2) Instruction: Choose the most appropriate answer from the four given options:

If we don't sell more by the end of the month, we will have to _____.

[Question ID = 243]

1. cut into production [Option ID = 969]

2. cut back production [Option ID = 970]
3. cut on production [Option ID = 971]
4. cut out production [Option ID = 972]

Correct Answer :-

- cut back production [Option ID = 970]

3) Instruction: Choose the most appropriate answer from the four given options:

Neither of the rosebushes _____ as we had imagined.

[Question ID = 244]

1. is as pretty [Option ID = 973]
2. are as pretty [Option ID = 974]
3. is as prettier [Option ID = 975]
4. is that pretty [Option ID = 976]

Correct Answer :-

- is as pretty [Option ID = 973]

Topic:- Eng Q8 & Q10

1) Instructions: Read the following passage and answer the questions that follow, by choosing the most appropriate option:

The rule of the road means that in order that the liberties of all may be preserved, the liberties of everybody must be curtailed. When a policeman steps into the middle of the road and puts out his hand, he is the symbol not of tyranny, but of liberty. You may, being in a hurry, and seeing your car pulled up by this insolence of office, feel that your liberty has been outraged. How dare this fellow interfere with your free use of the public highway? Then, if you are a reasonable person, you will reflect that if he did not interfere with you, he would interfere with no one, and the result would be that the road would be a maelstrom that you would never cross at all. You have submitted to a curtailment of private liberty in order that you may enjoy a social order which makes your liberty a reality.

Liberty is not a personal affair only, but a social contract. In matters which do not touch anybody else's liberty, of course, I may be as free as I like. I have a fancy for dyeing my hair or going to bed late or getting up early, I shall ask no man's permission. When we step out of our personal kingdom, our personal liberty of action becomes qualified by other people's liberty. We are all liable to forget this, and unfortunately we are much more conscious of the imperfections of others in this respect than of our own. A reasonable consideration for

the rights or feelings of others is the foundation of social conduct

In this essay, the writer is talking about

[Question ID = 245]

1. the insolence of policeman and other powerful officers [Option ID = 977]
2. unbiased curtailment of liberty as a way to prevent misuse of private liberty [Option ID = 978]
3. strict implementation of traffic rules [Option ID = 979]
4. controlling people's liberty to establish tyranny [Option ID = 980]

Correct Answer :-

- unbiased curtailment of liberty as a way to prevent misuse of private liberty [Option ID = 978]

2) Instructions: Read the following passage and answer the questions that follow, by choosing the most appropriate option:

The rule of the road means that in order that the liberties of all may be preserved, the liberties of everybody must be curtailed. When a policeman steps into the middle of the road and puts out his hand, he is the symbol not of tyranny, but of liberty. You may, being in a hurry, and seeing your car pulled up by this insolence of office, feel that your liberty has been outraged. How dare this fellow interfere with your free use of the public highway? Then, if you are a reasonable person, you will reflect that if he did not interfere with you, he would interfere with no one, and the result would be that the road would be a maelstrom that you would never cross at all. You have submitted to a curtailment of private liberty in order that you may enjoy a social order which makes your liberty a reality.

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The policeman's actions in the above passage is viewed by a reasonable man as an act of

[Question ID = 246]

1. tyranny [Option ID = 981]
2. unfair curtailment of private liberty [Option ID = 982]
3. prevention of social anarchy [Option ID = 983]

4. insolence of office [Option ID = 984]

Correct Answer :-

- prevention of social anarchy [Option ID = 983]

3) Instructions: Read the following passage and answer the questions that follow, by choosing the most appropriate option:

The rule of the road means that in order that the liberties of all may be preserved, the liberties of everybody must be curtailed. When a policeman steps into the middle of the road and puts out his hand, he is the symbol not of tyranny, but of liberty. You may, being in a hurry, and seeing your car pulled up by this insolence of office, feel that your liberty has been outraged. How dare this fellow interfere with your free use of the public highway? Then, if you are a reasonable person, you will reflect that if he did not interfere with you, he would interfere with no one, and the result would be that the road would be a maelstrom that you would never cross at all. You have submitted to a curtailment of private liberty in order that you may enjoy a social order which makes your liberty a reality.

Liberty is not a personal affair only, but a social contract. In matters which do not touch anybody else's liberty, of course, I may be as free as I like. I have a fancy for dyeing my hair or going to bed late or getting up early, I shall ask no man's permission. When we step out of our personal kingdom, our personal liberty of action becomes qualified by other people's liberty. We are all liable to forget this, and unfortunately we are much more conscious of the imperfections of others in this respect than of our own. A reasonable consideration for the rights or feelings of others is the foundation of social conduct

What forms the foundation of social conduct?

[Question ID = 247]

1. obeying the rules put down by the authorities without question [Option ID = 985]
2. reasonable exercise of personal liberty with empathy and maturity [Option ID = 986]
3. remembering the imperfections of others and reminding them of it [Option ID = 987]
4. disregarding the rule of the road [Option ID = 988]

Correct Answer :-

- reasonable exercise of personal liberty with empathy and maturity [Option ID = 986]