

Name _____

Roll No _____

SECTION - A

Time Allowed: 20 Minutes

Marks : 18

- 1- ہر سوال کے ساتھ چار دائرے دیئے گئے ہیں، صرف صحیح جواب والا دائرہ بھریں۔
 2- دائروں کو شیڈ (بھرنے) کے لئے نیلے یا کالے رنگ کا مارکر استعمال کریں۔
 3- جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

- 1 If an animal uses reason or judgments to solve a problem it is related to type of learning. ☐ Imprinting ☒ Insight ☐ Habituation ☐ Operant
- 2 Select the hormone that is related to the control of spermatogenesis. ☒ FSH ☐ GnRH ☐ Inhibin ☐ LH
- 3 The most common site of ectopic pregnancy is: ☐ Cervix ☒ Uterine tube ☐ Ovary ☐ Abdominal cavity
- 4 The variation in human skin colour is due to the difference in the amount and type of: ☒ Melanin ☐ Keratin ☐ Troponin ☐ Tropomyosin
- 5 Which amino acid is coded by the start codon AUG? ☐ Glycine ☐ Leucine ☒ Methionine ☐ Tryptophan
- 6 The concept of "survival of the fittest" was given by: ☐ Darwin ☒ Herbert Spencer ☐ Lamarck ☐ Alfred Wallace
- 7 When the ecological succession occur in a pond it is succession. ☐ Xerarch ☐ Psammosere ☒ Hydrarch ☐ Lithosere
- 8 The building blocks for in vitro DNA synthesis are: ☐ Aminoacids ☒ dNTPs ☐ Fatty acids ☐ Taq polymerase
- 9 The process in which weakened pathogen is introduced into body: ☐ Immunity ☐ Antibiotic ☒ Vaccination ☐ Attenuation
- 10 The structure that is primarily affected by Tuberculosis is: ☐ Pleura ☐ Trachea ☒ Alveoli ☐ Bronchi
- 11 Air enter lungs due to: ☐ High lungs pressure ☒ Low lungs pressure ☐ High pleural pressure ☐ Low atmospheric pressure
- 12 Homeoothermic animals are relatively independent of external sources of: ☒ Heat ☐ Water ☐ Salts ☐ Food
- 13 When water is deficient in the body the kidney will: ☐ Excrete more water ☐ Produce dilute urine ☒ Conserve water ☐ Increase filtration
- 14 The clavicle bone is a part of human: ☐ Ribs ☒ Pectoral girdle ☐ Pelvic girdle ☐ Vertebral column
- 15 The muscles that are striated and involuntary: ☒ Cardiac ☐ Skeletal ☐ Smooth ☐ Quadriceps
- 16 All types of neuron have: ☒ Nodes of Ranvier ☐ Schwann cells ☐ Neuron cell bodies ☐ Myelin Sheath
- 17 Nociception is the reception of: ☒ Pain ☐ Sound ☐ Smell ☐ Touch
- 18 The primary function of thyroxine is to: ☐ Promote salt retention ☒ Stimulate metabolic rate ☐ Lower blood calcium ☐ Rise blood glucose

P-327
PR XII (A) 25
BIOLOGY (New)
Inter Part-II
(Fresh/Reappear)

Note: Time allowed for Section - B and Section - C is 2 Hours and 40 minutes.

Section - B

Marks: 40

Q-II Answer any TEN parts. Each part carries FOUR marks.

1. How do the diaphragm and intercostals muscles help in inhalation and exhalation?
2. Identify the causes related to acute and chronic renal failure.
3. Recognize the joints types in human elbow, shoulder, skull and vertebrae.
4. Mention the consequences of alcohol abuse on the nervous system.
5. Compare the effects of insulin and Epinephrine on body functions.
6. Give the examples of Altruistic behavior in animals.
7. Write the differences between seminiferous tubules and endometrium lining.
8. Enlist the disadvantages of bottle feeding.
9. What is Maternal Foetal Rh- incompatibility?
10. State about the level of organisation in chromosome.
11. Mention the evidence that support endosymbiosis theory about evolution of eukaryotes.
12. Draw the sketch of water cycle in nature.
13. Write any four importances of domestic animals.

Section - C

Marks: 27

Note: Attempt any THREE questions. All questions carry equal marks.

- Q-III**
- (a) Discuss the mechanism of PCR (Polymerase Chain Reaction). (5)
 - (b) Describe the impacts of increasing carbon-dioxide concentration on planet earth. (4)
- Q-IV**
- (a) Dialysis replaces function of kidney, explain how? (5)
 - (b) State about parts of pharynx. (4)
- Q-V**
- (a) Discuss the sub-divisions of autonomic nervous system and their opposite effects on body functions. (5)
 - (b) Illustrate positive feedback mechanism. (4)
- Q-VI**
- (a) Demonstrate that eye colour in drosophila is a sex linked inheritance. (5)
 - (b) Write the sub types of Aneuploidy. (4)