

Pretest

MULTIPLE CHOICE: Write the letter of your chosen answer before the number.

1. In which bone is the brain encased in?
a) cranium
b) pelvis
c) ribs
d) vertebra
2. In 2010, the population of the province of Palawan is 771,667 with a land area $14,660 \text{ km}^2$. What is the population density of Palawan in the given year?
a) 50 km^2
b) 52 km^2
c) 54 km^2
d) 56 km^2
3. What is the process of releasing the semen?
a) ejaculation
b) ovulation
c) menstruation
d) transcription
4. Which organism was first to appear on Earth?
a) amphibians
b) birds
c) fishes
d) reptiles
5. Which gland is also known as the master gland?
a) parathormone
b) parathyroid
c) pineal
d) pituitary
6. Which of the following is not caused by the autonomic nervous system?
a) controls activities that increase energy expenditures
b) controls activities and reduces energy consumption
c) regulates activities under conscious control
d) works even when a person does not think about it

7. Wolf-Hirschhorn syndrome is caused by deletion of which chromosome arm?
a) 4
b) 5
c) 6
d) 7

8. Which is the largest organ in the body?
a) brain
b) lungs
c) pancreas
d) skin

9. The cerebrum has four lobes. Which lobe aids in processing memory and emotions?
a) frontal lobe
b) occipital lobe
c) parietal lobe
d) temporal lobe

10. What hormone initiates lactation after giving birth?
a) calcitonin
b) melatonin
c) prolactin
d) thyroxine

11. Of the following male organs, which is considered a primary sex organ?
a) epididymis
b) gonads
c) penis
d) vas deferens

12. After ovulation, the empty follicle is called corpus luteum. What does corpus luteum mean in Latin?
a) blue body
b) orange body
c) red body
d) yellow body

13. In which era does the age of amphibians belong to?
a) cenozoic
b) mesozoic
c) paleozoic
d) phanerozoic

14. Charles Darwin's theory has four main principle. Which principle explains the passing down of desirable traits amongst species to the next generation?

- a) adaptation
- b) descent with modification
- c) overproduction
- d) variation

15. Which human activity can help preserve the Earth's ecosystem?

- a) deforestation
- b) illegal fishing
- c) kaingin
- d) recycling

16. If the growth rate of the population in Davao is 4.14 % in the year 2012, in how many years will the population double?

- a) 13 years
- b) 15 years
- c) 17 years
- d) 19 years

17. Which part of the brain stem conveys signals between the brain and the spinal cord?

- a) hypothalamus
- b) medulla oblongata
- c) midbrain
- d) pons

18. Which is a method of birth control wherein the fallopian tubes are banded or tied to prevent contact between sperm and egg cell?

- a) bilateral tubal ligation
- b) diaphragm and cervical cap
- c) injection
- d) vasectomy

19. Which illustrates the Central Dogma of Molecular Genetics?

- a) DNA- RNA- proteins
- b) DNA- proteins- RNA
- c) RNA- proteins- DNA
- d) RNA- DNA- proteins

20. What is the correct sequence of the transcription process?

1. elongation
2. initiation
3. termination

a) 1, 2, 3
b) 2, 1, 3
c) 2, 3, 1
d) 3, 2, 1

21. Which hormone controls the development of the male secondary characteristics?
a) glucagon
b) oogonia
c) progesterone
d) testosterone

22. Jenny is 6 months pregnant. Which activity should she avoid to keep the baby healthy?
a) drinking lots of water
b) eating fruits
c) exercising regularly
d) smoking

23. The body produces a hormone known as insulin that helps lower blood sugar levels. Which hormone has an opposite effect as that of insulin?
a) calcitonin
b) glucagon
c) oxytocin
d) prolactin

24. Which is an example of density- dependent limiting factor?
a) earthquake
b) mers-cov
c) mining
d) typhoon

25. Who proposed the theory of use and disuse?
a) Charles Darwin
b) Erasmus Darwin
c) Georges Cuvier
d) Jean-Baptiste de Lamarck

26. The method radiocarbon dating makes use of which isotope of carbon?
a) 11
b) 12
c) 13
d) 14

27. The DNA is nucleotide is composed of what structure?
a) bases and pairs
b) introns and exons
c) phosphate-sugar-base
d) sugar and base

28. The body contains 23 pairs of chromosomes. What do you call the first 22 pairs of chromosome?
a) autosomes
b) codon
c) karyotype
d) sex cells

29. The cerebrum has two hemispheres—left and right hemisphere. Which of the following activities is not dominant in the right hemisphere?
a) art
b) music
c) personality
d) reading

30. During pregnancy, in which week does the heartbeat of the fetus become audible?
a) Eight week
b) Fourth week
c) Sixteenth week
d) Twelfth week