III SIMULAZIONE IN INGLESE 2018

General Knowledge and Logical Reasoning

1. Look at this series: 2, 4, 6, 8, 10, . . . What number

should come next?

- A. 11
- B. 12
- C. 13
- D. 14
- E. None of the above
- 2. Look at this series: 58, 52, 46, 40, 34, ... What

number should come next?

- A. 26
- B. 28
- C. 30
- D. 32
- E. None of the above

3. Look at this series: J14, L16, __, P20, R22, . . .

What number should fill the blank?

- A. S24
- B. N18
- C. M18
- D. T24

E. None of the above

4. Look at this series: F2, __, D8, C16, B32, . . .

What number should fill the blank?

- A. A16
- B. G4
- C. E4
- D. E3
- E. None of the above
- 5. Which word does NOT belong with the others?
 - A. leopard
 - B. cougar
 - C. elephant
 - D. lion
 - E. None of the above

6. Which word does NOT belong with the others?

- A. couch
- B. rug
- C. table
- D. chair
- E. None of the above

- 7. Optimist is to cheerful as pessimist is to
 - A. gloomy.
 - B. mean.
 - C. petty.
 - D. helpful.
 - E. None of the above
- 8. Sponge is to porous as rubber is to
 - A. massive.
 - B. solid.
 - C. elastic.
 - D. inflexible.
 - E. None of the above

9. Candid is to indirect as honest is to

- A. frank.
- B. wicked.
- C. truthful.
- D. untruthful.
- E. None of the above

10. Here are some words translated from an

artificial language.

hapllesh means cloudburst

srenchoch means pinball

resbosrench means ninepin

Which word could mean "cloud nine"?

- A. leshsrench
- B. ochhapl
- C. haploch
- D. haplresbo
- E. None of the above

11. How many republics made up the former Soviet Union?

- A. 12
- B. 10
- C. 15
- D. 20
- E. 18

Biology

12. All of the following are types of anemia accept:

- A. Hemorrhagic
- B. Hemolytic
- C. Aplastic
- D. Reticulo
- E. Iron-deficiency

13. This type of lymphocyte functions in the immune response by acting directly against virus-infected cells and tumor cells.

- A. Neutrophils
- B. T-cells
- C. Monocytes
- D. B-cells
- E. Lymphoblasts

- 14. Semicircular canals in the ear are responsible for
 - A. balance
 - B. equalising air pressure
 - C. hearing
 - D. transmitting vibrations
 - E. None of the above

15. Which of the following is not an excretory organ?

- A. kidney
- B. lungs
- C. pancreas
- D. skin
- E. None of the above
- 16. The position of the heart in the human body is
 - A. between the two lungs
 - B. in the middle of the abdomen
 - C. under the stomach
 - D. None of the above
 - E. below the diaphragm
- 17. Which of these are human excretory products?
 - A. urea and oxygen
 - B. amino acids and water
 - C. carbon dioxide and oxygen
 - D. water and urea
 - E. None of the above
- 18. The name of the blood vessel that delivers blood to the kidneys is the
 - A. hepatic vein
 - B. hepatic artery
 - C. renal vein
 - D. renal artery
 - E. None of the above

19. The membrane on the surface of a lung is called the

- A. Visceral pleura
- B. Parietal pleura

- C. Visceral pericardium
- D. Parietal pericardium
- E. None of the above

20. Which of the following organs is located in the abdominopelvic cavity?

A.Heart

- B.Trachea
- C.Thymus gland
- D.Kidney
- E. None of the above

Chemistry

- 21. What is the pH of a 0.00001 M KOH solution?
 - A. 9
 - B. 3
 - C. 3
 - D. 10
 - E. 12

22. The addition of acetic acid and ______ to water produces a buffer solution.

- A. HCI
- B. NaNO3
- С. СНЗСОООСНЗ
- D. CH3COONH4
- E. CH3COONa

23. In most of organic compounds, group found is

- A. benzene ring
- B. aldehydes
- C. ketone
- D. carboxylic
- E. None of the above

24. Comparing, Phenol reacts readily then benzene, so it is a

- A. nucleophiles
- B. electrophile
- C. protophile
- D. both A and B
- E. None of the above

25. Reaction of Acyl chlorides with alcohols and phenols will give

- A. esters
- B. ketones
- C. aldehydes
- D. haloalkanes
- E. carboxylic acids

- 26. Blue cheese have smell because of ketone
- A. heptan-2-one
- B. heptan-3-one
- C. heptan-2-ol
- D. hexa-2-one
- E. hexanone

Physics and Mathematics

27. A hotel has 2 rooms by the seashore and 4 rooms by the golf course vacant. If you check in, what are the chances you'll get a room by the seashore?

- A. 1/3
- B. 3
- C. 2
- D. ½
- E. ¼

28. On Monday and Wednesday night, Mrs. Miller went to bed listening to her favorite music CD. The CD contains music from 2 different composers: 4 tracks are Scarlatti and 4 tracks are Debussy. Her stereo is programmed to play the tracks in a random order. How likely is it that on both nights the last track played was Scarlatti?

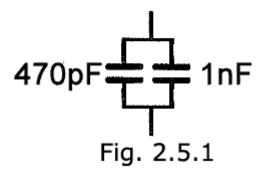
A. ¼

B. ½

C. 3/2

- D. 5/2
- E. 1

29. What is the approximate total capacitance of the parallel circuit?



- A. 320pF
- B. 147pF
- C. 3.2nF
- D. 1.47nF

30. What is the resistance of 100m of copper wire, having a diameter of 1.024mm?

- Α. 2.06Ω
- Β. 5.15Ω
- C. .515Ω
- D. 3.7Ω