

All Nepal Scholarship 2078

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Model Question

Mathematics

1. Which one of the following is circle?

- a) $y = mx + c$
- b) $x^2 + y^2 = a^2$
- c) $y = ax^2 + bx + c$
- d) $x + y = 0$

2. How many proper subsets can be obtained from the set $A = \{1, 2, 3\}$?

- a) 8
- b) 3
- c) 7
- d) 9

3. What is the median of the following data: 13, 5, 7, 9, 10 ?

- a) 5
- b) 10
- c) 9
- d) 13

4. H.C.F. of 1, 2, 3, a is

- a) 1
- b) 4
- c) a
- d) 6

5. If the average of 5, 6, 7 and w is 10, what is the value of w?

- a) 8
- b) 13
- c) 18
- d) 22

English

6. Why don't you try to come home ____ 9 o'clock?

- a) by

- b) under
- c) until
- d) up to

7. My father ____ to the Golf Club for the past 25 years.

- a) was belonging
- b) has belonged
- c) has been belonged
- d) has belonging

8. Portuguese is quite ____ Spanish.

- a) similar
- b) similar from
- c) similar to
- d) similar with

9. My youngest sister ____ last summer

- a) marriage
- b) got married
- c) got marriage
- d) was married to

10. Paper is ____ wood.

- a) made by
- b) made of
- c) made from
- d) made with

Nepali

11. माधव घिमिरेलाई कुन उपनामले चिनिन्छ ?

- a) युगकवि
- b) महाकवि
- c) राष्ट्रकवि
- d) आशुकवि

12. तलका शब्दहरू मध्ये नामको उदाहरण कुन हो ?

- a) कलम

- b) ऊ
- c) कालो
- d) बुरुक्क

13. तलका शब्दहरू मध्ये नामयोगीको उदाहरण कुन हो ?

- a) सँग
- b) कालो
- c) खानु
- d) बुरुक्क

14. लक्ष्मीप्रसाद देवकोटाको मृत्यु कहिले भएको थियो ?

- a) वि.सं. १९९०
- b) वि.सं. १९६६
- c) वि.सं. १९६०
- d) वि.सं. २०१६

15. 'मुनामदन' कसले लेखेका हुन् ?

- a) माधव घिमिरे
- b) लक्ष्मीप्रसाद देवकोटा
- c) गोपाल प्रसाद रिमाल
- d) सिद्धिचरण श्रेष्ठ

Biology

16. Which blood cell is commonly called Erythrocyte?

- a) Red Blood Cell
- b) White Blood Cell
- c) Platelets
- d) None

17. Bryophytes are called amphibian plant because

- a) They live on land and in water
- b) They are aquatic plants
- c) They need water for fertilization
- d) All of the above

18. Cephalothorax is found in

- a) Rohu
- b) Earthworm

- c) Tapeworm
- d) Prawn

19. AIDS is not transmitted by

- a) blood transfusion
- b) coughing & sneezing
- c) needle used by drug addicts
- d) sexual contact

20. Viruses cannot be cultured in artificial media because

- a) They can multiply only in living cell
- b) They are living
- c) They are non-living
- d) They are microorganism

Physics

21. Newton's second law gives a measurement

- a) acceleration
- b) force
- c) momentum
- d) angular momentum

22. A block of weight 1N is moving with an acceleration of 1m/s^2 . The force on the block is

- a) 1 N
- b) 9.8 N
- c) $(1/9.8)$ N
- d) 4.9 N

23. A man pushes a wall but fails to displace it. He does

- a) negative work
- b) positive but small work
- c) positive and maximum work
- d) no work at all

24. The fastest mode of heat transfer is

- a) conduction

- b) convention
- c) radiation
- d) all of the above

25. How much heat energy is required to raise the temperature of water with mass 2 kg from

- a) 84 J
- b) 840 J
- c) 8400 J
- d) 84000 J

Chemistry

26. $\text{Cl}^- \rightarrow \text{Cl}$ involves

- a) Loss of 1 electron
- b) gain of 1 electron
- c) Loss of 2 electron
- d) gain of 2 electron

27. An alloy is

- a) A compound
- b) Element
- c) Mixture
- d) none of these

28. The functional group of aldehyde is:

- a) $-\text{OH}$
- b) $-\text{CHO}$
- c) $>\text{C}=\text{O}$
- d) $-\text{COOH}$

29. "Dry Ice" is:

- a) Super cooled ice
- b) Super cooled D_2O
- c) Solid CO_2
- d) Solid SO_2

30. The symbol of iron is

- a) I

- b) Ir
- c) Fe
- d) F

Mindset quiz

31. Your intelligence is something very basic about you that you can't change very much

- a) Strongly agree
- b) Agree
- c) Disagree
- d) Strongly disagree

32. No matter how much intelligence you have, you can always change it quite a bit

- a) Strongly agree
- b) Agree
- c) Disagree
- d) Strongly disagree

33. Only a few people will be truly good at sports, you have to be born with the ability

- a) Strongly agree
- b) Agree
- c) Disagree
- d) Strongly disagree

34. The harder you work at something, the better you will be

- a) Strongly agree
- b) Agree
- c) Disagree
- d) Strongly disagree

35. I often get angry when I get feedback about my performance

- a) Strongly agree
- b) Agree
- c) Disagree
- d) Strongly disagree

