

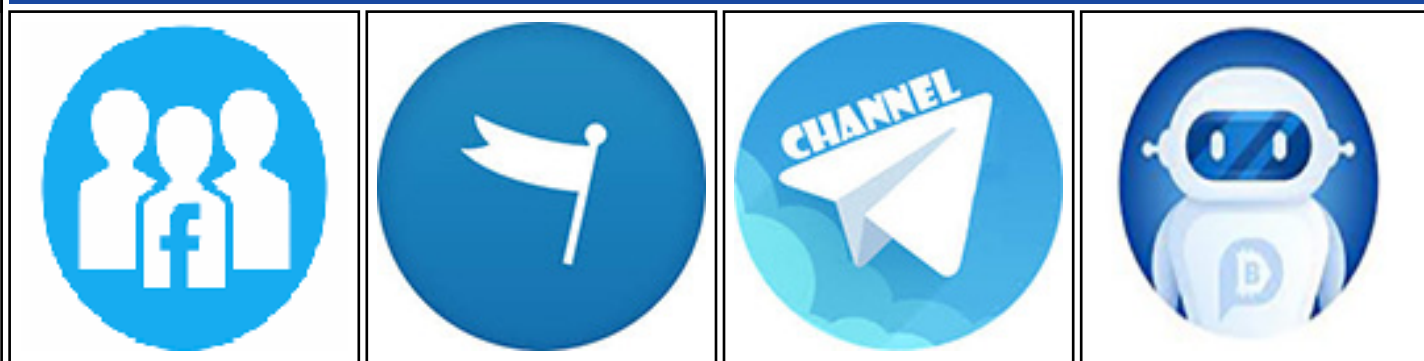
تم تحميل هذا الملف من موقع المناهج الكويتية



الملف نموذج اختبار الرياضيات للقدرات الأكاديمية جامعة الكويت (الإصدار 5)

موقع المناهج ⇨ ملفات الكويت التعليمية ⇨ الصف الثاني عشر العلمي ⇨ رياضيات ⇨ الفصل الأول

روابط مواقع التواصل الاجتماعي بحسب الصف الثاني عشر العلمي



روابط مواد الصف الثاني عشر العلمي على تلغرام

| | | | |
|---------------------------|----------------------------------|-------------------------------|-----------------------------------|
| الرياضيات | اللغة الانجليزية | اللغة العربية | التربية الاسلامية |
|---------------------------|----------------------------------|-------------------------------|-----------------------------------|

المزيد من الملفات بحسب الصف الثاني عشر العلمي والمادة رياضيات في الفصل الأول

| | |
|---|---|
| نموذج اختبار أول ثانوية الرشيد بنين | 1 |
| تمارين الاتصال(موضوعي) في مادة الرياضيات | 2 |
| اوراق عمل الاختبار القصير في مادة الرياضيات | 3 |
| حل كتاب التمارين في مادة الرياضيات | 4 |
| مراجعة منتصف لمادة الرياضيات | 5 |



Kuwait University

Office of Assistant Vice President for Evaluation
and Measurement

Academic Aptitude Tests

Student Name

Version

A

Civil ID No.

Instructions:

1. The aptitude tests consist of three tests.

| <u>Test</u> | <u>Number of Questions</u> | <u>Time</u> |
|-------------|----------------------------|-------------|
| English | 85 | 1 Hour |
| Mathematics | 20 (No Calculator) | 1 Hour |
| Chemistry | 25 | 1 Hour |

2. Mark all your answers on the **Answer Sheet** and in the proper section. On your answer sheet as shown below, using a pencil, darkenthe proper circle.



3. Verify all personal and test data on answer sheet and don't make any changes unless approved by the proctor.
4. Write down your name and Civil ID# on the test booklet.
5. Copy the test's version on your answer sheet.
6. Follow the proctor's instruction during the test.
7. During testing, be quite and avoid any cheating situation.
8. Observe the allocated and the announced time for each test.

1. The solution set of $6x^2 - 11x - 10 = 0$ is:

(a) $\left\{\frac{-5}{3}, 1\right\}$

(c) $\left\{\frac{-5}{2}, \frac{2}{3}\right\}$

(b) $\left\{\frac{5}{3}, -1\right\}$

(d) $\left\{\frac{5}{2}, \frac{-2}{3}\right\}$

2. The solution set of $x^2 - 2 = |x|$ is:

(a) $\{2\}$

(c) $\{-2, 1\}$

(b) $\{2, -1\}$

(d) None of the previous

3. The solution set of the inequality $|7 - x| > 5$ is:

(a) $(-12, -2) \cup (0, \infty)$

(c) $(-\infty, -12) \cup (-2, \infty)$

(b) $(-\infty, 0) \cup (12, \infty)$

(d) $(-\infty, 2) \cup (12, \infty)$

4. The solution set of the inequality $\frac{(x+5)(x-2)}{x+3} > 0$ is:

(a) $(-\infty, -3) \cup (2, \infty)$

(c) $(-\infty, -5) \cup (-3, 2)$

(b) $(-\infty, -5) \cup (-3, \infty)$

(d) $(-5, -3) \cup (2, \infty)$

5. If $z = 2xw + 2yw + 2yx$, then $y =$

(a) $\frac{z - 2xw}{2w + 2x}$

(c) $\frac{z - 2xw}{2w - 2x}$

(b) $\frac{z - xw}{2xw}$

(d) $\frac{z - xw}{w - x}$

6. $\frac{-1}{x-1} + \frac{2}{x-2} =$

(a) $\frac{3x-4}{(x-1)(x-2)}$

(c) $\frac{x}{(x-1)(x-2)}$

(b) $\frac{x-4}{(x-1)(x-2)}$

(d) None of the previous

7. $2x^3 - 5x^2 - 28x + 15 =$

(a) $(2x-1)(x-3)(x-5)$

(c) $(2x-1)(x-5)(x+3)$

(b) $(2x^2-3)(x-5)$

(d) $x(2x-1)(x-5)(x+3)$

8. $\frac{5^{2x+1}}{5^{1-2x}} =$

(a) 1

(c) 5^{4x-2}

(b) 5^{4x}

(d) 25

9. The solution set of $7^{x^2+20} = 7^{9x}$ is:

(a) $\{4, 5\}$

(c) $\{0, 20\}$

(b) $\{-4, -5\}$

(d) None of the previous

10. $\frac{2}{3} - \left(\frac{3}{4} - \frac{1}{2}\right) =$

(a) $\frac{5}{24}$

(c) $\frac{5}{12}$

(b) $\frac{-7}{12}$

(d) None of the previous

11. The domain of $f(x) = \frac{1}{\sqrt{x-1}}$ is:

(a) $(-\infty, 1)$

(c) $[1, \infty)$

(b) $\mathbb{R} \setminus \{1\}$

(d) None of the previous

12. If $f(x) = x^2 - 1$, then $f(x-1) =$

(a) $x^2 + 2x - 1$

(c) $x^2 - 2x - 1$

(b) $x^2 - 2x$

(d) $x^2 - 2$

13. Prices in a sale were reduced by 20%. If the price of a washing machine was 120 KD before the sale, then its sale price is:

(a) 94 KD

(c) 96 KD

(b) 144 KD

(d) 100 KD

14. During an operation, the heart beat of a patient has increased by 25%. He was given a medication that decreased the heart beat by 20% to reach 60 b/Min. The heart beat before the operation was:
- (a) 58 b/Min. (c) 64 b/Min.
(b) 72 b/Min. (d) None of the previous
15. If 5 rabbits consume 70 Kg of food per week, then how much food is consumed by 8 rabbits in 3 days?
- (a) 72 Kg (c) 24 Kg
(b) 48 Kg (d) None of the previous
16. If 6 workers can finish a job in 8 days, then how many workers are needed to finish the same job in 4 days?
- (a) 12 (c) 3
(b) 9 (d) None of the previous
17. Ahmad can finish a job in 3 hours, while Mansour needs 9 hours to finish the same job. How long it takes to finish this job, if Ahmad and Mansour work together on it?
- (a) 2 hours (c) 6 hours
(b) 12 hours (d) None of the previous
18. A hotel charges x KD per night plus 8% tax applied to the room rate. The hotel also charges an untaxed 5 KD per stay in the hotel. How much would a guest pay if he stays for m nights?
- (a) $1.08(mx + 5)$ (c) $1.08(mx) + 5$
(b) $(x + 0.08m) + 5$ (d) None of the previous
19. A farm had 50 cows at the beginning of 2018. If it is estimated that the number of cows will double every 6 years, then which of the following will give the estimated number C of cows m years after 2018.
- (a) $C = 50(2)^{6m}$ (c) $C = 50 + 6m$
(b) $C = 50(2)^{\frac{m}{6}}$ (d) $C = 6 + 50m$
20. The cost (in KD) of producing m items in a factory is $C = 7m + 350$. The factory sells each item for 12 KD. What is the minimum number of items that must be sold for the factory to make profit?
- (a) 84 (c) 71
(b) 70 (d) None of the previous

إجابات اختبار اللغة الانجليزية

[illegible]

اجابات اختبار الرياضيات

| Q's# | Answers | Q's# | Answers | Q's# | Answers | Q's# | Answers |
|------|---------|------|---------|------|---------|------|---------|
| 1 - | A B C D | 6 - | A B C D | 11 - | A B C D | 16 - | A B C D |
| 2 - | A B C D | 7 - | A B C D | 12 - | A B C D | 17 - | A B C D |
| 3 - | A B C D | 8 - | A B C D | 13 - | A B C D | 18 - | A B C D |
| 4 - | A B C D | 9 - | A B C D | 14 - | A B C D | 19 - | A B C D |
| 5 - | A B C D | 10 - | A B C D | 15 - | A B C D | 20 - | A B C D |

اجابات اختبار الكيمياء

| Q's# | Answers | Q's# | Answers | Q's# | Answers | Q's# | Answers | Q's# | Answers |
|------|---------|------|---------|------|---------|------|---------|------|---------|
| 1 - | A B C D | 6 - | A B C D | 11 - | A B C D | 16 - | A B C D | 21 - | A B C D |
| 2 - | A B C D | 7 - | A B C D | 12 - | A B C D | 17 - | A B C D | 22 - | A B C D |
| 3 - | A B C D | 8 - | A B C D | 13 - | A B C D | 18 - | A B C D | 23 - | A B C D |
| 4 - | A B C D | 9 - | A B C D | 14 - | A B C D | 19 - | A B C D | 24 - | A B C D |
| 5 - | A B C D | 10 - | A B C D | 15 - | A B C D | 20 - | A B C D | 25 - | A B C D |

إجابات اختبار اللغة العربية

| Q's# | Answers | Q's# | Answers | Q's# | Answers | Q's# | Answers | Q's# | Answers | Q's# | Answers |
|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|
| 1 - | A B C D | 11 - | A B C D | 21 - | A B C D | 31 - | A B C D | 41 - | A B C D | 51 - | A B C D |
| 2 - | A B C D | 12 - | A B C D | 22 - | A B C D | 32 - | A B C D | 42 - | A B C D | 52 - | A B C D |
| 3 - | A B C D | 13 - | A B C D | 23 - | A B C D | 33 - | A B C D | 43 - | A B C D | 53 - | A B C D |
| 4 - | A B C D | 14 - | A B C D | 24 - | A B C D | 34 - | A B C D | 44 - | A B C D | 54 - | A B C D |
| 5 - | A B C D | 15 - | A B C D | 25 - | A B C D | 35 - | A B C D | 45 - | A B C D | 55 - | A B C D |
| 6 - | A B C D | 16 - | A B C D | 26 - | A B C D | 36 - | A B C D | 46 - | A B C D | 56 - | A B C D |
| 7 - | A B C D | 17 - | A B C D | 27 - | A B C D | 37 - | A B C D | 47 - | A B C D | 57 - | A B C D |
| 8 - | A B C D | 18 - | A B C D | 28 - | A B C D | 38 - | A B C D | 48 - | A B C D | 58 - | A B C D |
| 9 - | A B C D | 19 - | A B C D | 29 - | A B C D | 39 - | A B C D | 49 - | A B C D | 59 - | A B C D |
| 10 - | A B C D | 20 - | A B C D | 30 - | A B C D | 40 - | A B C D | 50 - | A B C D | 60 - | A B C D |