



Sri Sarada College For Women

(An Autonomous Institution)

(Reaccredited with “A” grade by NAAC)

Institution included u/s 2(f) and 12(B) of UGC

Affiliated to Manonmaniam Sundaranar University

(A branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Tirunelveli Thoothukudi –High Road, Maharaja Nagar Post,

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SKILL DEVELOPMENT



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Sri Sarada College for Women(Autonomous), Tirunelveli - 627011

Formative Examination - Model Exam . Subject Name : - Mathematics for Competitive Exam

 mukeshlavan75@gmail.com (not shared) [Switch account](#) 

* Required

Name *

Your answer

Class with Major *

Your answer

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Your answer

1. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of 10%, the effective rate of interest becomes: * 1 point

- A) 10%
- B) 10.25%
- C) 10.5%

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C) 4500

D) 2500

3. Aman took a loan from a bank at the rate of 12% p.a. simple interest. After 3 years he had to pay Rs. 5400 interest only for the period. The principal amount borrowed by him was: 1 point

A) Rs. 2000

B) Rs. 10,000

C) Rs. 15,000

D) Rs. 20,000

4. If Rs. 5000 amounts to Rs. 5832 in two years compounded annually, find the rate of interest per annum. * 1 point

A) 6.8%

B) 7.1%

C) 8%

D) 9%

5. A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 years at the rate of simple interest. What is the rate of interest? * 1 point

A) 3%

B) 4%

C) 5%

D) 6%

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6. A sum of Rs. 1000 is to be divided among two brothers such that if the interest being compounded annually is 5 % per annum, then the money with the first brother after 4 years is equal to the money with the second brother after 6 years. *

1 point

- A) 425 and 498
- B) 400 and 489
- C) 500 and 575
- D) 524.38 and 475.62

7. Aastha lent Rs. 5000 to Bahubali for 2 years and Rs. 3000 to Chinky for 4 years on simple interest at the same rate of interest and received Rs. 2200 in all from both of them as interest. The rate of interest per annum is: *

1 point

- A) 5%
- B) 7%
- C) $7\frac{1}{8}\%$
- D) 10%

8. A sum of Rs. 1000 was lent to two people, one at the rate of 5 % and other at the rate of 8 %. If the simple interest after one year is Rs. 62, find the sum lent at each rate. *

1 point

- A) 400, 600
- B) 800, 1200
- C) 300, 500
- D) 700, 900

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9. Calculate the compound interest on Rs. 3000 at 5% for 2 years, compounded annually. * 1 point

- A) 307.5
 B) 3307.5
 C) 3000.5
 D) 3100

10. The rate of interest p.c.p.a is _____. I. An amount doubles itself in 5 years on simple interest. II. Difference between the compound interest and the simple interest earned on a certain amount in 2 years is Rs. 400. III. Simple interest earned per annum is Rs. 2000 * 1 point

- A) I only
 B) II and III only
 C) All I, II and III
 D) I only or II and III only

11. A can do a bit of work in 10 days while B alone can do it in 15 days. They cooperate for 5 days and whatever remains of the work is finished by C in 2 days. On the off chance that they get Rs. 4500 for the entire work, they partition the cash is * 1 point

- A. Rs 1250, Rs 1200, Rs 550
 B. Rs 2250, Rs 1500, Rs 750
 C. Rs 1050, Rs 1000, Rs 500
 D. Rs 650, Rs 700, Rs 500

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12. Radhe does 70% of some work in 15 days. Later, with Shyam's help, she completes the remaining work in 4 days. In _____ days can Shyam alone complete the entire work. * 1 point

- A. 35 days
- B. 35.2 days
- C. 35.3 days
- D. 38.4 days

13. A and B undertake a project worth Rs. 54000. A alone can do the work in 10 days. They work together for 3 days. After 3 days, B works alone for 3 days and A completes the remaining work in 3 more days. The share of B in the earnings is _____. * 1 point

- A. Rs. 21600
- B. Rs. 33400
- C. Rs. 27800
- D. Rs. 35780

14. If the ratio of speed of doing work of three persons is 1 : 3 : 5. The ratio of time taken by these people to do the same amount of work is _____. * 1 point

- A. 15 : 5 : 7
- B. 3 : 15 : 5
- C. 15 : 3 : 5
- D. 15 : 5 : 3

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16. 12 students working for 5 hours a day can solve a certain number of problems in 8 days. If they work at 4 hours a day for 15 days, then _____ boys are needed to solve five times the original number of problems. *

1 point

- A. 90
- B. 45
- C. 40
- D. 100

17. A can fabricate a divider in 30 days, while B alone can assemble it in 40 days. If they construct it together and get an installment of RS. 7000, then B's offer is *

1 point

- A. 2000
- B. 3000
- C. 4000
- D. 6500

18. A, B and C completed a work together in 36 days and received a total payment of Rs. 54000. Person A took half of the total money, B took one third and C took remaining. In _____ days, A and C would have finished the work if B was not working. *

1 point

- A. 72 days
- B. 54 days
- C. 96 days
- D. 64 days

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19. A can do a bit of work in 25 days which B can complete in 20 days. Both together labor for 5 days and afterward A leaves off. B can take to complete the remaining work in _____ days. *

1 point

- A. 7 days
- B. 8 days
- C. 9 days
- D. 11 days

20. P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both p and Q work together working 8 hours a day, In _____ days can they complete the work? *

1 point

- A. 60/11
- B. 61/11
- C. 71/11
- D. 81/11

21. A car travelling at a speed of 40km/hour can complete a journey in 9 hours. To travel the same distance at 60km/hour is *

1 point

- a) 6 hours
- b) 3 hours
- c) 4 hours
- d) 5 hours

22. A boy goes to his school from his house at a speed of 3 km/hr and returns at a speed of 2 km/hr. He takes 5 hours in going and coming, the distance between his house and school is *

1 point

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- a) 6 km
- b) 5 km
- c) 5.5 km
- d) 6.5 km

23. A boy runs 20 km in 2.5 hours. He takes to run 32 km at double the previous speed is *

- a) 2 hours
- b) 2 1/2 hours
- c) 4 1/2 hours
- d) 5 hours

24. A train is moving with the speed of 180 km/hr. Its speed (in metres per second) is: *

- a) 5
- b) 40
- c) 30
- d) 50

25. A man riding his bicycle covers 150 metres in 25 seconds. His speed in km per hour is *

- a) 25
- b) 21.6
- c) 23

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d) 20

26. A and B travel the same distance at speed of 9 km/hr and 10 km/hr respectively. A takes 36 minutes more than B, the distance travelled by each is *

a) 48 km

b) 54 km

c) 60 km

d) 66 km

27. A person started his journey in the morning. At 11 a.m. he covered $\frac{3}{8}$ of the journey and on the same day at 4.30 p.m. he covered $\frac{5}{6}$ of the journey. He started his journey at *

a) 6.00 a.m.

b) 3.30 a.m.

c) 7.00 a.m.

d) 6.30 a.m.

28. The speed of a bus is 72 km/hr. The distance covered by the bus in 5 seconds is *

a) 100 m

b) 60 m

c) 50 m

d) 74.5 m

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29. Two men start together to walk a certain distance, one at 4 km/h and another at 3 km/h. The former arrives half an hour before the latter. The distance is *

1 point

- a) 8 km
- b) 7 km
- c) 6 km
- d) 9 km

30. A train starts from a place A at 6 a.m. and arrives at another place B at 4.30 p.m. on the same day. If the speed of the train is 40 km per hour, the distance travelled by the train is *

1 point

- a) 420 km
- b) 230 km
- c) 320 km
- d) 400 km

31. A boy runs 1 km in 10 minutes. How long will he take to run 600 m? *

1 point

- a) 2 minutes
- b) 3 minutes
- c) 4 minutes
- d) 6 minutes

32. 3 knives cost Rs. 63. What will 17 knives cost? *

1 point

- a) Rs. 357

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- a) Rs. 357
- b) Rs. 375
- c) Rs. 537
- d) Rs. 573

33. If 3 quintals of coal cost Rs. 6000, What is the cost of 120 kg? * 1 point

- a) Rs. 1200
- b) Rs. 2400
- c) Rs. 3600
- d) Rs. 4800

34. Amala types 200 words in half an hour. How many words will she type in 12 minutes? * 1 point

- a) 80
- b) 50
- c) 100
- d) 60

35. If 'x' and 'y' are in a direct proportion then which of the following is correct? * 1 point

- a) $x + y = \text{constant}$
- b) $x - y = \text{constant}$
- c) $xy = \text{constant}$
- d) $x/y = \text{constant}$

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36. 6 pipes are required to fill a tank in 1 hour. How long will it take if only 5 pipes of the same type are used? * 1 point

- a) 75 minutes
- b) 72 minutes
- c) 80 minutes
- d) 90 minutes

37. If $x = 20$ and $y = 40$, then x and y are : * 1 point

- a) Directly proportional
- b) Inversely proportional
- c) Neither directly nor indirectly proportional
- d) Cannot be determined

38. If $x \propto y$ and $x_1 = 5$, $y_1 = 210$ and $x_2 = 2$, then find y_2 ? * 1 point

- a) 200
- b) 84
- c) 99
- d) 70

39. The scale of a map is given as 1:300. Two cities are 4 km apart on the map. The actual distance between them is: * 1 point

- a) 1000 km
- b) 1100 km
- c) 1200 km

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d) 1300 km

40. Rs. 160 maintain a family of 8 persons for 80 days, for how long will Rs. 210 maintain a family of 12 persons? *

- a) 70 days
 b) 50 days
 c) 100 days
 d) 7 days

41. A cistern has two taps attached to it. Tap B can empty the cistern in 45 minutes. But Tap A can fill the cistern in just 30 minutes. Rohit started both taps unknowingly but realized his mistake after 30 minutes. He immediately closed Tap B. Now after this, _____ time will the cistern be filled. *

- a. 30 minutes
 b. 45 minutes
 c. 15 minutes
 d. 20 minutes

42. Pipe R can empty a full tank in 30 hours. But two pipes P and Q can fill a tank in 15 hours and 10 hours respectively. Ram unknowingly opened all three taps. After 2 hours Shyam realized it and closed Pipe R. Due to this mistake _____ time more would it take to fill the tank. *

- a. 18 minutes
 b. 24 minutes
 c. 1 hour 20 minutes
 d. 2 hours 15 minutes

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43. A cistern is filled by Pipe A and Pipe B together in 2.4 hours. Pipe A alone can fill the cistern at the rate of 100 litres per hour. Pipe B alone can fill the cistern in 4 hours. ____ is the capacity of the cistern. *

- a. 1200 litres
- b. 600 litres
- c. 1000 litres
- d. 500 litres

44. There is a leak at the bottom of a cistern. Due to this it takes 8 hours to fill the cistern. Had there not been a leak, it would take one hour less to fill the cistern. ____ time does it take for the leak to completely empty the cistern. *

- a. 48 hours
- b. $55\frac{1}{3}$ hours
- c. 56 hours
- d. 15 hours

45. Tap P alone fills a cistern in 2 hours; while tap Q alone fills the same cistern in 3 hours. A new tap R is attached to the bottom of the cistern which can empty the completely filled cistern in 6 hours. Sunny started all three taps together at 9am. ____ will the tank be full. *

- a. 10.30 am
- b. 11.15 am
- c. 12 pm
- d. 9.45 am

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46. A cistern can be filled in 6 hours by taps P and Q. If tap R also joins them, 1 point
then cistern is filled in 5 hours. Tap P can fill the cistern at twice the rate of
tap Q. In ___ time tap Q and R fill the cistern. *

- a. 9.75 hours
- b. 10.90 hours
- c. 11.25 hours
- d. 12.90 hours

47. A cistern is normally filled with water in 10 hours but takes 5 hours longer 1 point
to fill because of a leak in its bottom. If the cistern is full, the leak will empty
the cistern in *

- a. 20 hours
- b. 40 hours
- c. 50 hours
- d. 30 hours

48. A tank has three taps P, Q and R. Taps P and Q can fill the tank in 1.5 and 2 1 point
hours, respectively. Tap R can empty the completely filled tank in just half
hour. Tap P is opened at 8 am, tap Q is opened at 9 am and tap R is opened at
10 am. ___ exact time will the tank be empty *

- a. 12 pm
- b. 1.25 pm
- c. 12.12 pm
- d. 12.28 pm

49. A pipe can fill a tank in 6 hours. Another pipe can empty the tank in 12 1 point

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49. A pipe can fill a tank in 6 hours. Another pipe can empty the tank in 12 hours. If both pipes are opened simultaneously, the part of tank filled by both pipes in 1 hour is? *

- a. $1/9$ th part
- b. $1/6$ th part
- c. $1/12$ th part
- d. $1/3$ rd part

50. A tap having diameter 'd' can empty a tank in 84 min. Another tap having diameter '2d' take to empty the same tank *

- a. 21 minutes
- b. 42 minutes
- c. 168 minutes
- d. 28 minutes

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