

8. When a twisting force is applied to a bolt, what stress is exerted on to the head?
- Shear
 - Compressive
 - Torsion
9. You add 2 vectors together. The 3rd vector you get is called the
- Sum
 - Resultant
 - Component
10. If a tensile load is placed on a bar it will
- Stretch
 - Bend
 - Crush
11. Compressibility is
- stress/strain
 - strain/stress
 - stress x strain
12. A block of metal is melted. It will
- increase in volume
 - decrease in volume
 - remain the same volume
13. Frequency of sine wave is 0.5 Hz. What is the time period?
- 0.5 second
 - 2 second
 - 10 second
14. Momentum is the product of Mass and
- Velocity
 - Acceleration
 - displacement
15. Unit of acceleration is
- m/s
 - m/s^2
 - s/m
16. An Object moves 27 meters with a force of 54 N. What is the Work produced?
- 1458N
 - 10.1N
 - 583.2Kj
17. What force is required to produce an acceleration of $5 m/s^2$ on a mass of 2 Kg
- 2.5N
 - 15N
 - 10N
18. The distance from lens to focal point is called
- Focal length
 - Principle Focus
 - Principle Axis
19. Speed of light is approximately
- 3×10^8 m/s
 - 3×10^9 m/s
 - 3×10^{10} m/s
20. Acceleration is change in velocity per unit
- Time
 - Displacement
 - Mass

Part III- English

1. The village was destroyed _____ fire.
 - a) By
 - b) Through
 - c) From
2. I enjoy our history lessons. At the moment _____ about the Russian Revolution.
 - a) We learn
 - b) We're learning
 - c) We've learned
3. I haven't seen him _____ last Wednesday.
 - a) For
 - b) Since
 - c) From
4. Don't cry _____ spilled milk.
 - a) Under
 - b) At
 - c) Over
5. This is a matter _____ little importance.
 - a) In
 - b) Of
 - c) For
6. My friends _____ the Prime Minister.
 - a) See
 - b) Have seen
 - c) Saw
7. I will telephone you when he _____ back.
 - a) Comes
 - b) Came
 - c) Will come
8. Our flat has a of Central Park.
 - a) Window
 - b) Looks
 - c) View
9. The headmaster _____ to speak to you.
 - a) Wants
 - b) Is wanting
 - c) Was wanting
10. It _____ since early morning.
 - a) Rained
 - b) Is raining
 - c) Has been raining
11. He is _____ honor to his profession.
 - a) A
 - b) An
 - c) The
12. I first _____ him year ago.
 - a) Met
 - b) Meet
 - c) Meeting
13. _____ sun shines brightly.
 - a) A
 - b) An
 - c) The
14. _____ French defeated the Germans.
 - a) A
 - b) An
 - c) The
15. He looks as stupid as _____ owl!
 - a) A
 - b) An
 - c) The
16. We scored as many goals as _____.
 - a) They
 - b) Them
 - c) Their
17. Huma and _____ were present.
 - a) I
 - b) Me
 - c) Mine
18. There isn't much difference between you and _____.
 - a) He
 - b) His
 - c) Him
19. We are not as poor as _____.
 - a) Us
 - b) They
 - c) Them
20. Whom can I trust, if not _____.
 - a) He
 - b) She
 - c) Him

21. Why don't you _____ this word in the dictionary.
- Look up
 - Think of
 - look into
22. She _____ in the last semester.
- Ran away
 - Dropped out
 - Came in
23. We _____ to a bad start.
- Got off
 - Came in
 - Looked up
24. The signals are _____ from the north end.
- Coming in
 - Coming from
 - Showing into
25. What time _____ to bed last night?
- You went
 - Did you go
 - Have you gone