

2. जी०ए०ए०(ए०) ए०है०ए० नमो |ए०ए० =क० ए०ए० :- 16
- (+) १/२००० |ए०ए० + ए०है० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (२) वर्कशॉपमध्ये वापरण्यात येणाऱ्या विविध फाईलचे स्पष्टीकरण करा.
- (E०) १/२००० ए०ए० ए०है०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (b) १/२००० + ए०ए० १/२००० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
3. जी०ए०ए०(ए०) ए०है०ए० नमो |ए०ए० =क० ए०ए० :- 16
- (+) १/२००० |ए०ए० + ए०है० ए०ए० ए०ए० ए०ए० ए०ए०
- (२) १/२००० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (E०) ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (<) टॅप ब्रेन्चचा प्रकार आणि त्यांचे वापर थोडक्यात स्पष्ट करा.
4. जी०ए०ए०(ए०) ए०है०ए० नमो |ए०ए० =क० ए०ए० :- 16
- (+) १/२००० |ए०ए० + ए०है० ए०ए० ए०ए० ए०ए० ए०ए०
- (२) १/२००० + ए०ए० १/२००० ए०ए० ए०ए० ए०ए० ए०ए०
- (E०) ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (b) १/२००० |ए०ए० ए०ए० + ए०है० १/२००० |ए०ए० ए०ए०
5. ए०ए० ए०ए० ए०ए० (ए०है०ए०) ए०ए० :- 16
- (+) ए०ए० ए०ए०
- (२) १/२००० + ए०ए० १/२००० ए०ए०
- (E०) १/२००० ए०ए०
- (b) ए०ए० ए०ए०
- (<) ए०ए० + ए०है० ए०ए०
6. जी०ए०ए०(ए०) ए०है०ए० नमो |ए०ए० =क० ए०ए० :- 16
- (+) ए०ए० ए० + ए०ए० ए० = ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (२) १/२००० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (E०) ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०
- (b) ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए० ए०ए०

THEORY OF FILTER (THEORY-I)*Instructions:—*(1) All questions are *compulsory*.

(2) Draw a diagram wherever necessary.

Marks

1. (a) Fill in the blanks (any *five*) :— 5
- (i) Fire is combination of fuel, heat and
 - (ii) The base unit of length as per S.I. units is
 - (iii) Metric outside micrometer has threaded spindle with a pitch of
 - (iv) The tool which is used for laying out large circles is
 - (v) In its simplest form, bronze is an alloy of which metal
 - (vi) Oil grooves are to be cut in brass half-bearing which one of the following file is suitable
- (b) State *true* or *false* (any *five*) :— 5
- (i) The least count of vernier level protractor is 5 (Five minutes).
 - (ii) Micrometer works on the principle of nut and bolt.
 - (iii) A die is external thread cutting tool.
 - (iv) The least count of outside micrometer is 0.01 mm.
 - (v) A Tap set is made of cast iron.
 - (vi) CO₂ extinguisher is used in a welding shop.
- (c) State long form (any *five*) :— 5
- | | | |
|-------------|--------------|--------------|
| (i) B.S.F. | (ii) B.I.S. | (iii) C.N.C. |
| (iv) R.P.M. | (v) B.S.P.T. | (vi) S.W.G. |
- (d) Match the following pairs (any *five*) :— 5
- | ‘A’ Group | ‘B’ Group |
|---|---|
| (i) Buttress thread | (a) To check the internal threads of the parts. |
| (ii) Inside micrometer | (b) It is used in carpenter's vice. |
| (iii) Rasp cut file | (c) Self locking nut |
| (iv) Split Pin is used to lock this nut. | (d) For measuring inside dimension. |
| (v) Fiber/nylon ring inserted which hold nut tightly on | (e) Used for Filling wood, Fiber, etc. |
| (vi) Screw threaded plug gauges are used to. | (f) Castle nut. |

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Marks

2. Attempt any *two* of the following :— 16
- (a) Explain briefly about types of hammer and their uses ?
 - (b) Describe with the help of neat sketch of various types of files used in fitting shop.
 - (c) Write safety precaution associated with use of files.
 - (d) Explain briefly vernier bevel protactor and how to calculate least count on it.
3. Attempt any *two* of the following :— 16
- (a) Explain briefly types of clamps with their uses ?
 - (b) Draw a neat sketch of twist drill and Explain its details.
 - (c) Describe with the help of neat sketch of various types of taps used in engineering shop.
 - (d) Explain briefly about types of tap wrenches and their uses.
4. Write brief answers (any *two*) :— 16
- (a) Explain briefly about types of files and their uses.
 - (b) How to calculate the least count at vernier caliper ?
 - (c) Types of gauges and explain any one of them.
 - (d) Write the types of scraper and explain scraping procedure.
5. Write short notes (any *four*) :— 16
- (a) Angle plate
 - (b) Vernier height gauge
 - (c) Fastener
 - (d) Reaming process
 - (e) Jig and Fixture.
6. Attempt any *two* of the following :— 16
- (a) Explain about manufacturing process of cast iron.
 - (b) Write four precaution associated with snips.
 - (c) Explain briefly types of rivets.
 - (d) Write the types of bearing and explain any one of them.
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