18/A/C/S-3/4/E



PAPER – I FITTER (THEORY) **Booklet Series -A**

MARKS: 150

036/227

SEMESTER – III

TIME: 3 HRS.

Note: Attempt all the questions.

All questions carry equal marks.

This paper carries negative marking. 25% marks will be deducted for each wrong answer.

Choose the correct answer.

- In which of the following lathe, so many tools can work together?
 - a) None of these

b) Speed lathe

c) Turret lathe

- d) Bench lathe
- 2. Which of the following lathe is appropriate for mass production?
 - a) Turret lathe

b) Capstan lathe

c) Both (a) & (b)

- d) Bench lathe
- 3. Tumbler gear is used for the following work
 - a) To accelerate the carriage from lead screw
 - b) To change the direction of the rotation of the lathe
 - c) To change the direction of feed
 - d) To change the velocity of spindle
- 4. Due to which reason, drill breaks during center drilling?
 - a) By giving too much feed

b) By reducing speed and feed

c) By trapping of chips

d) None of these

- 5. Which material is used to make the gauge of good quality?
 - a) Vanadium steel

b) Cast iron

c) Mild steel

d) None of these

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6.	Clearance between the mating parts is measured by a) By dial gauge c) By feeler gauge	y which of the following gauge? b) By plug gauge d) By caliper gauge
7.	Which of the following method is used for putting a) Lapping c) Charging	abrasive on lap? b) Fixing d) Rubbing
8.	As compare to honing, metal is removed a) Less c) Very less	b) More d) None of these
9.	The surface finish of a surface is measured in — a) Foot c) Micron	b) Meter d) Centimeter
0. In honing process, which of the following is used along with simple abrasive and bon-material for making hon?		
	a) Sulphur c) Wax	b) Resin d) All of these
11.	Nitride made the metals -	
	a) Corrosion resistant c) Both (a) & (b)	b) Wear resistant d) None of these
12.	Which of the following structure is formed by the steel?	e rapid cooling of austenite structure of
	a) Pearlite c) Martensite	b) Cementite d) None of these
13.	TPI is the unit for measure the following – a) Thickness of wire	b) Diameter of nut
	c) Pitch of threads of nut	d) Length of bolt

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a) Alloy steel

c) Mild steel



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b) Cast steel

d) Cast iron

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14.	Split bearing is also known as — a) Pedestal bearing c) Pivot bearing	b) Roller bearing d) Plain bearing
15.	Jobs with asymmetric surface cannot hold in a) By four jaw chuck c) Both (a) & (b)	b) By three jaw chuck d) None of these
16.	After tightening and opening the jobs, chuck la) Leave in the chuck c) Fasten along with the jobs	key should – b) Lock with the chuck d) Immediately withdraw from the chuck
17.	The type of bearing is - a) Friction bearing c) Both (a) & (b)	b) Anti-friction bearing d) None of these
18.	Simple (Ordinary) nut and chuck nut have fol a) Both are same c) Simple nut have less thickness	llowing difference - b) Chuck nut have less thickness d) None of these
19.	Ball bearings are made up of metal tablets of a) None of these c) Copper	b) Alloy steel d) Cast iron
20.	Honing allowance is kept – a) 0.01 to 0.02 mm c) 0.001 to 0.002 mm	b) 0.05 to 0.10 mm d) None of these
21.	Gauges wore out by rubbing on the surface,	hence they are made by the following metal –

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22.	a) By the length of sine bar is given by the following a) By the length of sine bar b) By the distance between the centers of roller c) By the distance between the end point of bot d) None of the above	
23.	For supporting the pipe-shaped hollow job, follow	owing centroid is used -
	a) Revolving center	b) Inverse centerd) Pipe center
	c) Half center	d) Tipe contex
24.	The full name of SWG is –	
	a) Standard Wire Gauge	b) Straight Wire Gauge
	c) Standard Width Gauge	d) Standard Wire Gear
25.	Which of the following is the characteristic of b	pearing?
25.	a) Minimum friction	b) Vibration free base
	c) The ability to keep the shaft on its place	d) All of these
26.	Which of the following washer is used where shocks are more likely to be happen?	the loosening of bolts due to vibrations or
	a) Plain washer	b) Spring washer
	c) Tap washer	d) Fiber washer
27.	Woodruff key have following type of shape	
27.	a) Rectangular	b) Shape of the sector of circle
	c) Round and Taper	d) Square
28.	is used for the picking of steel.	
20.	a) Dilute sulfuric acid	b) Spirit
	c) Troicloroethylene	d) Carbon Tetra Chloride
29.	In lapping process, aluminum oxide abrasive is	sused
47.	a) For hard metals	b) For non-ferrous metals
	c) For hard steel	d) None of these
		Contd 5/

Contd....5/



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30.	Among the following, reference surface while man a) Surface gauge c) None of these	rking on any job is – b) Workpiece d) Surface of marking table
31.	The taper of the work piece kept on the lathe macl a) Taper plug gauge or taper ring gauge c) Steel rule and micrometer	hine can be checked by following – b) Universal bevel protector d) Sine bar and slip gauge
32.	Which taper is used in the spindle of tail stock?	
	a) Morse taper c) Jarno taper	b) Browne and shape taper d) None of these
33.	Face plate is made up of which of the following me	etal?
	a) Cast iron c) High carbon steel	b) Wrought iron d) None of these
34.	For using taper turning attachment, the setting formula –	angle is calculated by the following
	a) $\tan\theta = D - d / 21$	b) $\tan\theta = D - d / I$
	c) $\tan\theta = 2d / D - d$	d) $\tan\theta = 2 / D - d$
35.	If the number size in wire gauge increases then the	thickness of the wire will get –
	a) Less c) Neither less nor more	b) More d) None of these
	0) 110.00.00	
36.	Nut is a –	
	a) Temporary fastner c) Permanent fastner	b) Semi-permanent fastnerd) None of these
	c) remanent fastner	d) Hollo of these
37.	Which of the following instrument is used to chec job?	k the hills & vallies for the surface of the
	a) By ammeter	b) By dial gauge
	c) By barometer	d) By profile meter
38.	The place where bearing are fit is known as -	
	a) Friction	b) Housing d) Ball bearing
	c) Shell bearing	Contd6/-
		created with
;		nitro professional

46.

Which chuck has reversible jaws?

a) Collet chuckc) Tail stock

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39.	Lead screw of lathe is used for – a) Step turning c) Taper turning	b) Boring d) Thread cutting
40.	Which of the following protects the long job from a) Mandrel c) Revolving center	bending during turning b) Steady rest d) Dog chuck
41.	The method of cutting taper by tail stock is known a) Copying c) Long nose tool	as – b) Offset d) Taper turning
42.	Jobs are placed in ash or for annealing. a) Limestone c) Pig iron	b) Coke d) All of these
43.	The included angle of acme thread is – a) 30^{0} c) $47\frac{1}{2}^{0}$	b) 29 ⁰ d) 60 ⁰
44.	Thread snap gauge is used to check — a) External diameter c) Internal diameter	b) External thread d) Internal thread
45.	For correctly fixing the threading tool,	is used.
	a) Try squareb) Threaded gaugec) Center gauged) Tool attached with the face of the job	

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b) Four jaw chuck

d) Head stock



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47.	is done for removing more brittleness of chisel.			
	a) Tempering	b) Hardening		
	c) Carburizing	d) Annealing		
48.	The percentage of carbon in grey cast iron is a) More than 6.67 %	b) More than 2.1 %		
	c) Less than 2.1 %	d) None of these		
49.	The diameter of NOT GO end is kept slightly	than the actual size.		
77.	a) Bigger	b) Smaller		
	c) Equal	d) None of these		
50.	What does 16 represents in M16 x 55?			
	a) Length of shank	b) Diameter of threads		
	c) Both (a) & (b)	d) None of these		

