PAPER-I FITTER (THEORY & EMPLOYABILITY SKILLS) SEMESTER-I (SESSION 2017-2018) – NSQF LEVEL – 5

TIME: 3 HRS.

MARKS: 200

Note: Attempt all the questions. All questions carry equal marks.

This paper contains two parts – Part (A) & Part (B).

PART-A (THEORY)

(150)

Choose the correct answer:

1. Name the warning sign.



- a) School
- c) Pedestrian crossing

- b) Guarded
- d) Unguarded
- 2. What is the class of fire caused by fire wood, paper, cloth?
 - a) Class 'C' fire

b) Class 'B' fire

c) Class 'A' fire

- d) Class 'D' fire
- 3. Which fire extinguisher filled with carbon tetra chloride and bromochloridifluoro methane (BCF)?
 - a) Carbon dioxide

b) Foam extinguisher

c) Halon extinguisher

- d) Dry powder extinguisher
- 4. Name the part marked 'x' of the file.



- a) Heel
- c) Edge

- b) Ferrule
- d) Shoulder

Contd....2/-



5.	Which	file	is	used	for	bringing	the job	close	to	the	finishing	size?
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a) Second cut file

b) Curved cut file

c) Single cut file

d) Double cut file

6. Which file having the parallel edges throughout the length?

a) Bastard file

b) Hand file

c) Rasp cut file

d) Single cut file

7. What is the material is used to manfacture bench vice?

a) Tool steel

b) High carbon steel

c) Medium carbon steel

d) Cast iron

8. Which marking media provide clear lines on machine finished surfaces?

a) White wash

b) Cellulose lacquer

c) Copper sulphate

d) Prussian blue

9. What is the purpose of slots provided in the slotted angle plate?

a) Reduce weight

b) Easy handling

c) Job clamping

d) Better appearance

10. Which caliper is used to mark the centre of round bar?

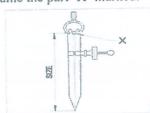
a) Firm joint caliper

b) Inside caliper

c) Outside caliper

d) Jenny caliper

11. Name the part 'X' marked.



a) Fulcrum

b) Peg

c) Washer

d) Leg

12. Name the angular measuring instrument.



- a) Bevel protractor
- c) Universal bevel gauge

- b) Bevel gauge
- d) Universal surface gauge

Contd....3/-



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13	. Which	file	tilling	narrow	grooves	and	angles	above	10-	1

a) Knife edge file

b) Half round file

c) Triangular file

d) Square file

14. Name the defect that causes the metal chips to clog between the teeth of file.

a) File bite

b) Pinning of file

c) Warpping of file

d) Glazing of file

15. Which chisel is used for cutting oil grooves?

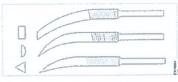
a) Flat chisel

b) Web chisel

c) Diamond point chisel

d) Half round nose chisel

16. Name the file.



a) Barrot file

b) Mill saw file

c) Crossing file

- d) Riffler file
- 17. What is the name of the vice?



a) Machine vice

b) Pipe vice

c) Hand vice

d) Pin vice

18. Which grinding machine is used for heavy duty work?

a) Bench grinder

b) Portable grinder

c) Pedestal grinder

d) Surface grinder

19. Which of the operation is performed in power hammer?

a) Pickling

b) Swaging

c) Seaming

d Hemming

20. Which chisel used for squaring materials at the corners?

a) Diamond point chisel

b) Flat chisel

c) Cross cut chisel

d) Web chisel

Contd....4/-



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21. Which file is used for sha	arpening the teeth (of wood working saws?	
a) Barrete file		b) Tinker's file	
c) Millsaw file		d) Riffler file	
22. Where will be the weigh	nt of the hammer st	amped?	
a) Face		b) Pein	
c) Cheek		d) Eye hole	
23. What will be the effect	if the clearance a	ngle of chisel is less than recomm	ende

- ed angle while chipping?
 - a) Cutting edge cannot penetrate, chisel will slip
 - b) Cutting edge digs in, cut will be deeper
 - c) Cutting edge will break
 - d) Cutting edge of chisel move freely on straight line
- 24. Name the property of metal to resist the effect of tensile forces without rupture.
 - a) Tenacity

b) Ductility

c) Elasticity

d) Malleability

25. Name the part 'x' marked.



- a) Spindle lock
- c) Spindle

- b) Thimble
- d) Anvil
- 26. What is the accuracy of metric outside micrometer?
 - a) 0.01 mm

b) 0.001 mm

c) 0.02 mm

- d) 0.002 mm
- 27. Which factor determine the current setting during welding?
 - a) Types of joint

b) Diameter of electrode

c) Length of electrode

d) Position of weld

28. Name the part 'x' marked.



- a) Lip
- c) Flank

- b) Land
- d) Cutting edge

Contd....5/-



7	0	Which	tune of	tanor	provided	in the	drill	chank?
Z.	ч.	wnich	IVDE OF	taner	provided	in the	arm	Snank?

a) Morse taper

b) Metric taper

c) Pin taper

d) Jerno taper

30. Which is used to remove drills and sockets from the machine spindle?

a) Drift

b) Sleeve

c) Punch

d) Hammer

31. Name the tap wrench used in the restricted place.

a) 'T' handle tap wrench

b) Box type tap wrench

c) Solid type tap wrench

d) Double ended adjustable tap wrench

32. In the ISO metric thread, calculate the tap drill size MIO x 1.5 thread.

a) 8.2 mm

b) 8.7 mm

c) 8.75 mm

d) 8.65 mm

33. What is the unit of feed in drilling operation?

a) m/rev

b) m/min

c) mm/rev

d) mm/min

34. Which cutting fluid is used in automatic lathe?

a) Soluble oil

b) Stright mineral oil

c) Blended oil

d) Chemical solution

35. Name the part 'x' marked in vernier caliper.



a) Depth bar

b) Fixed bar

c) Beam

d) Thumb lever

36. What is the accuracy of protractor head in combination set?

a) 1°

h) 59

c) 5' minute

d) 5" second

37. Which key with rounded ends may be fitted tightly or screwed in a shaft?

a) Woodruff key

b) Gib head key

c) Feather key

d) Flat saddle key

Contd....6/-



- 38. What is the OCV for welding in step-down transformer which reduces the main supply voltage (220 or 440 volts)?
 - a) 30 and 20 volt
 - c) 40 and 100 volt

- b) 50 and 100 volt
- d) 20 and 25 volt
- 39. Which is the welding machine designed to supply both A.C and D.C current for welding ferrous and non-ferrous metals using all types of electrode?
 - a) Rectifier set

b) Transformer set

c) Motor generator set

- d) Engine generator set
- 40. Name the safety operation carried out in welding plant shown in the figure.



- a) Compressor used to force out fuses
- b) Cooling the surface to clear gases
- c) Exhaust duct capture fuses and gases d) Water forced to clean the surface
- 41. Identify the part marked as 'x'.



- a) Safety plug
- c) Valve spindle

- b) Steel bottle
- d) Dissolved acetylene
- 42. What is the name of distortion occurs in the weld direction?
 - a) Longitudinal distortion

b) Bending distortion

c) Angular distortion

- d) Transverse distortion
- 43. What is the name of the the metal edge in an angle during welding and cutting operations?
 - a) Kerf

b) Bevel

c) Drag

- d) Gouging
- 44. Identify the welding defect shown in figure.



- a) Under cut
- c) Lack of fusion

- b) Cracking
- d) Incomplete penetration

Contd....7/-



- 45. Name the process to refine the structure of steel components.
 - a) Hardening

b) Tempering

c) Annealing

- d) Normalising
- 46. What is the heat treatment process followed to retain the sharpness of the cutting edge after hardening?
 - a) Tempering

b) Carburising

c) Normalising

- d) Annealing
- 47. Which rivet is used in heavy structural work?
 - a) Conical head rivet

b) Snap head rivet

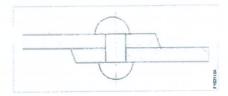
c) Counter sunk rivet

- d) Pan head rivet
- 48. What is the name of tool is used to support the snap head rivet?
 - a) Rivet snap

b) Drift

c) Rivet set

- d) Dolly
- 49. Name the riveting defect shown.



- a) Improper joining of plates
- b) Rivet head not centred with the shank
- c) Burrs between plates
- d) Body of the rivet not perpendicular to the plate
- 50. Which tool used in sheet metal work to scribe a circle or arc with a large diameter?
 - a) Trammel

b) Spring compass

c) Wing compass

d) Ordinary compass

